



# AEL-5000系列

可编程交/直流电子负载

## 特点

- 交/直流负载具定电流、线性定电流、定电阻、定电压、定功率及整流性负载等工作模式
- 峰值因素范围: 1.414~5.0
- 功率因素范围: 0~1超前或落后
- 内建测试模式
- Turbomode(倍增模式)
- 时间量测可应用于电池、UPS、保险丝和断路器等测试
- 高达八台的并联最高可达180KW及三相 $\Delta$ 或Y的负载同步控制
- 支持带载开机
- 支持抽载与卸除角度控制
- 支持正半周或负半周抽载
- 支持SCR/TRIAC的电流调变波形, 90度Trailing edge及Leading Edge
- 频率范围: DC, 40~440Hz(480V机型: DC, 40-70Hz )
- 外部电压控制
- 过电压警示、过电流、过功率、过温度保护
- 选配接口: GPIB、RS-232C、USB、LAN

**GW INSTEK**  
固纬电子

AEL-5000系列交 / 直流电子负载内建 16 位 A/D 及 DSP 等精准的量测电路，提供了精确的测量值，测量项目共有电压均方根值 (Vrms)、电流均方根值 (Arms)、瓦特值 (Watt)、伏安 (VA)、波峰因素 (CF)、功率因素 (PF)、谐波失真率 (THD)、电压总谐波失真率 (VTHD)、电流总谐波失真率 (ITHD)、峰值电流 (Ipeak)、电流最大值 (Amax)、电流最小值 (Amin)、电压最大值 (Vmax)、电压最小值 (Vmin)。除了这些量测功能外，亦提供了时间量测，产品如UPS、保险丝及断路器等跳脱或熔断时间及Off-lineUPS 的转换时间 (Transfertime)。

AEL-5000系列AC/DC电子负载的交流整流模式，符合IEC对UPS 及PVInverter的测试规范要求，分别是 IEC62040-3UPS EfficiencyMeasurementnon-LinearandIEC61683ResistivePlusNon-Linear。AEL-5000系列的交流整流性负载模式，是使用CC+CR 负载模式并维持电流的 THD在 80%，来模拟实际 PVInverter 所连接的电子设备。

AEL-5000系列 AC/DC电子负载特别内建各种产品所需的测试模式，包括交流部分的 UPS,Inverter,Fuse/Breaker,AC PowerSource，及直流部份的Battery,Fuse/Breaker,DCPowerSource 等。

AEL-5000系列负载新增 TYPE1~TYPE3 共二种电池放电测试，可以依需要选择适当的电池测试模式，测试结果可以直接在 LCD 显示器上显示电池的 AH 容量、放电后的电压值、放电的累计时间等数据。

AEL-5000系列负载提供多台并联、三相应用功能，让使用者能够进行更大功率或三相交流电源的测试应用，这样可以更灵活、更弹性的使用 AEL-5000系列交流电子负载，以节省成本。在并联 / 三相的操作上，使用者如同操作单机一样，只要对Master 进行操作即可，Slave1及Slave2会自动进行该相的吃载及量。

AEL-5000系列交直流电子负载特别针对电流保护元件的测试验证开发出 FuseTest 功能，就能够用一额定电流与功率的电子负载来测试验证此类保护元件。当Turbomode( 倍增模式 ) 设置为ON时，在 1 秒的测试时间内，测试电流可以倍增到最大电流的 2 倍。



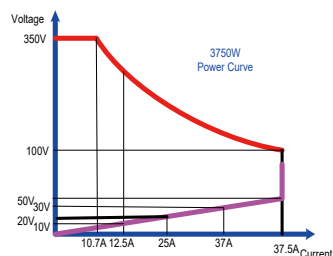
| 型 号   |           | AEL-5004-350-37.5<br>AEL-5004-425-37.5                | AEL-5003-350-28<br>AEL-5003-425-28 | AEL-5002-350-18.75<br>AEL-5002-425-18.75 | AEL-5004-480-28      | AEL-5003-480-18.75        |
|-------|-----------|-------------------------------------------------------|------------------------------------|------------------------------------------|----------------------|---------------------------|
| 功率(W) | Turbo OFF | 3750 W                                                | 2800W                              | 1875 W                                   | 3750 W               | 2800W                     |
|       | Turbo ON  | 7500W (x2)*                                           | 5600W (x2)*                        | 3750W (x2)*                              | 7500W (x2)*          | 5600W (x2)*               |
| 电流(A) | Turbo OFF | 37.5 Arms/112.5Apeak                                  | 28 Arms/84Apeak                    | 18.75 Arms/56.25Apeak                    | 28 Arms/84Apeak      | 18.75 Arms/56.25Apeak     |
|       | Turbo ON  | 75.0Arms/112.5Apeak (x2)*                             | 56Arms/84Apeak (x2)*               | 37.5Arms/56.25Apeak (x2)*                | 56Arms/84Apeak (x2)* | 37.5Arms/56.25Apeak (x2)* |
| 电压(V) |           | 50~350Vrms/500Vdc(350V机型) ; 50~425Vrms/600Vdc(425V机型) |                                    |                                          | 50~480Vrms / 700Vdc  |                           |

| 型 号           |           | AEL-5008-350-75<br>AEL-5008-425-75                    | AEL-5012-350-112.5<br>AEL-5012-425-112.5 | AEL-5015-350-112.5<br>AEL-5015-425-112.5 | AEL-5019-350-112.5<br>AEL-5019-425-112.5 | AEL-5023-350-112.5<br>AEL-5023-425-112.5 |
|---------------|-----------|-------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| 功率(W)         | Turbo OFF | 7500 W                                                | 11250W                                   | 15000W                                   | 18750W                                   | 22500W                                   |
|               | Turbo ON  | 15000W (x2)*                                          | 22500W (x2)*                             | 30000W (x2)*                             | 37500W (x2)*                             | 45000W (x2)*                             |
| 电流(A)         | Turbo OFF | 75.0 Arms/225Apeak                                    | 112.5 Arms/337.5Apeak                    | 112.5 Arms/337.5Apeak                    | 112.5 Arms/337.5Apeak                    | 112.5 Arms/337.5Apeak                    |
|               | Turbo ON  | 150.0Arms/225Apeak (x2)*                              | 225Arms/337.5Apeak (x2)*                 | 225Arms/337.5Apeak (x2)*                 | 225Arms/337.5Apeak (x2)*                 | 225Arms/337.5Apeak (x2)*                 |
| Voltage(Volt) |           | 50~350Vrms/500Vdc(350V机型) ; 50~425Vrms/600Vdc(425V机型) |                                          |                                          |                                          |                                          |

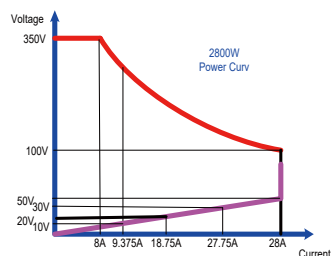
| MODEL |           | AEL-5006-350-56          | AEL-5006-425-56          |
|-------|-----------|--------------------------|--------------------------|
| 功率(W) | Turbo OFF | 5600 W                   | 5600 W                   |
|       | Turbo ON  | 11200W (x2)*             | 11200W (x2)*             |
| 电流(A) | Turbo OFF | 56.0 Arms/168Apeak       | 56.0 Arms/168Apeak       |
|       | Turbo ON  | 112.0Arms/168Apeak (x2)* | 112.0Arms/168Apeak (x2)* |
| 电压(V) |           | 50~350Vrms/ 500Vdc       | 50~425Vrms/ 600Vdc       |

\* Turbo ON can double the power and Current ratings

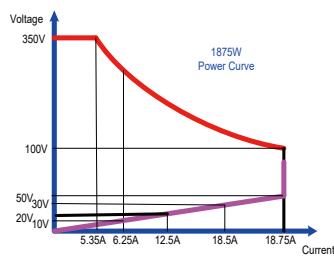
## 功率曲线



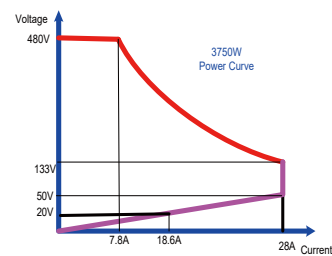
AEL-5004-350-37.5功率曲线图



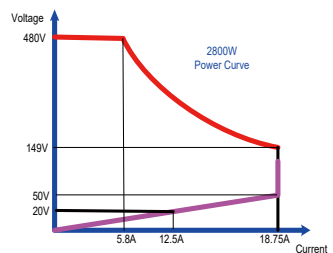
AEL-5003-350-28功率曲线图



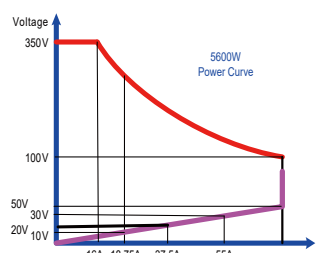
AEL-5002-350-18.75功率曲线图



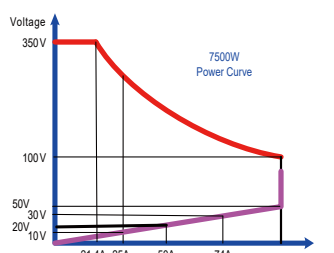
AEL-5004-480-28功率曲线图



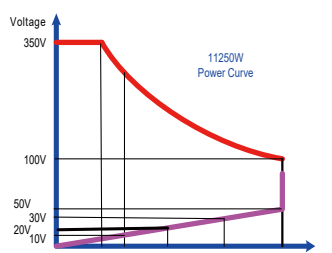
AEL-5003-480-18.75功率曲线图



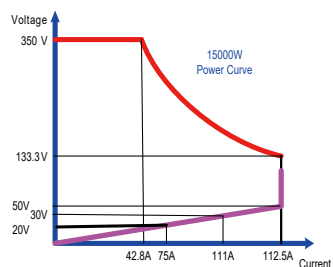
AEL-5006-350-56功率曲线图



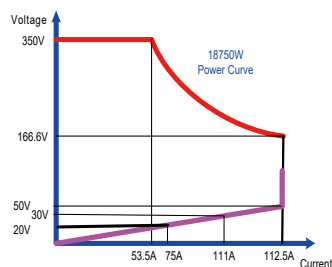
AEL-5008-350-75功率曲线图



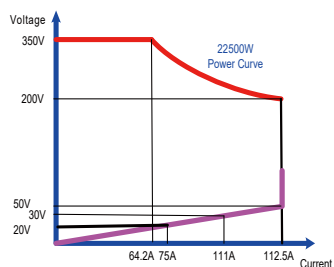
AEL-5012-350-112.5功率曲线图



AEL-5015-350-112.5功率曲线图

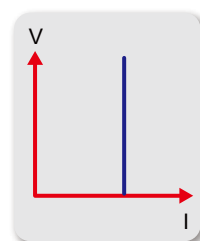


AEL-5019-350-112.5功率曲线图

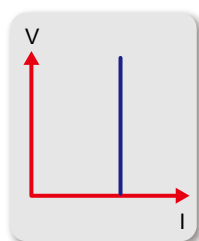


AEL-5023-350-112.5功率曲线图

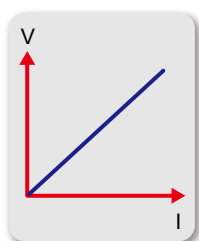
## 交流负载模式



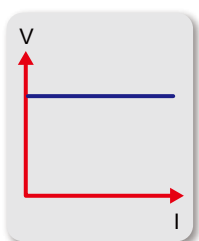
定电流模式



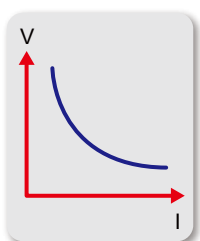
线性定电流模式



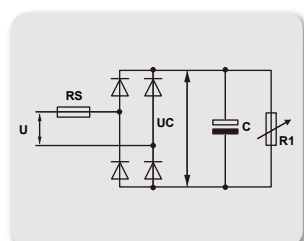
定电阻模式



定电压模式

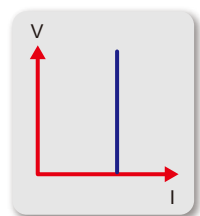


定功率模式

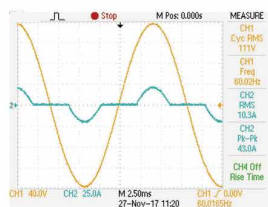


整流性负载模式

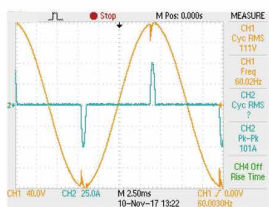
### A. 定电流模式



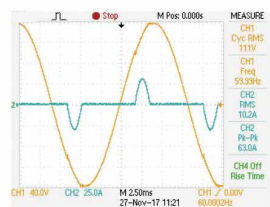
定电流模式



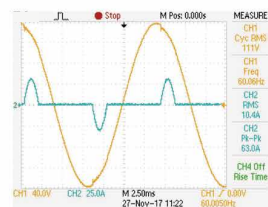
CC mode, CF=2



CC mode, CF=5



CC mode, PF= +0.5

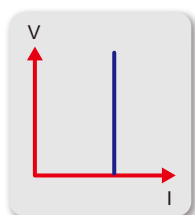


CC mode, PF= -0.5

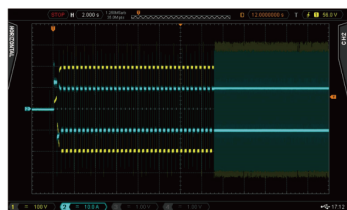
在交流负载的定电流模式,仅适用于弦波电压源,提供线性负载的CF,PF测试。

## 交流负载模式

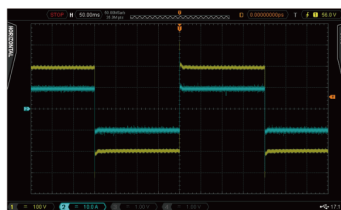
### B. 线性定电流模式



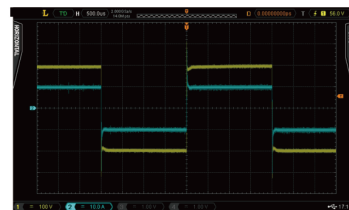
线性定电流模式



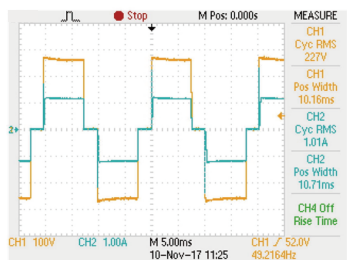
Linear CC mode, PWM 10A 2.5Hz to 250Hz



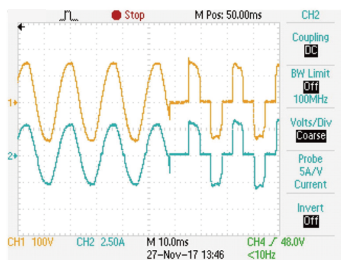
Linear CC mode, PWM 10A 2.5Hz



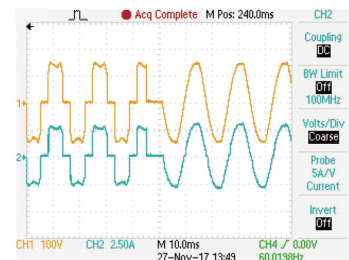
Linear CC mode, PWM 10A 250Hz



Linear CC mode, Step 10A



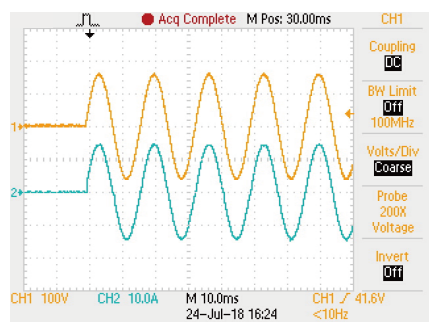
Linear CC mode, UPS Sine to Square waveform



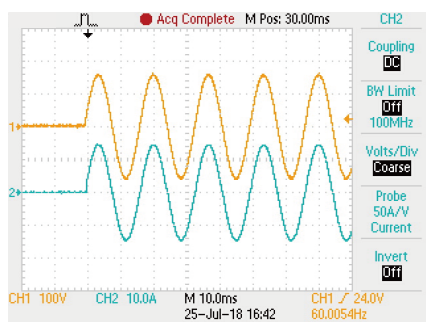
Linear CC mode, UPS Square to Sine waveform

可以适用于弦波与非弦波电压源,如下图所示的 PWM 变频驱动器,阶梯 (Step) 电压源,及 UPS 弦波变方波,方波变弦波。

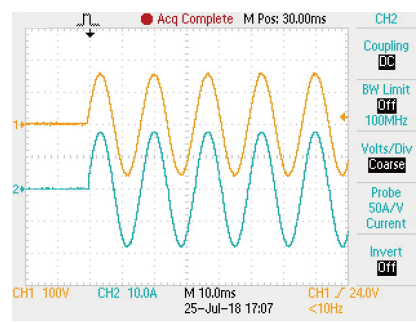
### C. 支持带载开机



CC 10A 带载开机



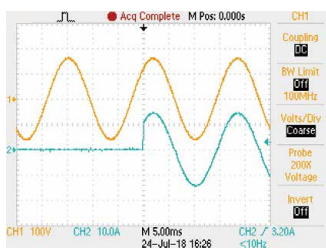
CR 10A 带载开机



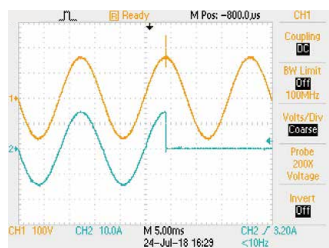
CV 10A 带载开机

模拟待测物直接插入 ( Plug-in) 抽载; 先设定 Load ON 便可支持带载开机, 逆变器或不断电电源开机时便直接带着所设定负载电流开机, 用来验证 Inverter 连接电器时启动是否稳定。

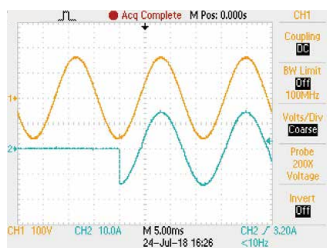
### D. 支持拉载与卸载角度控制



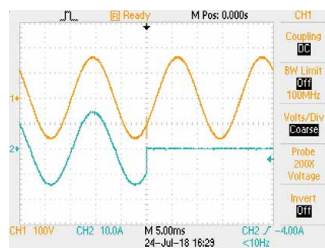
45度拉载



90度卸载



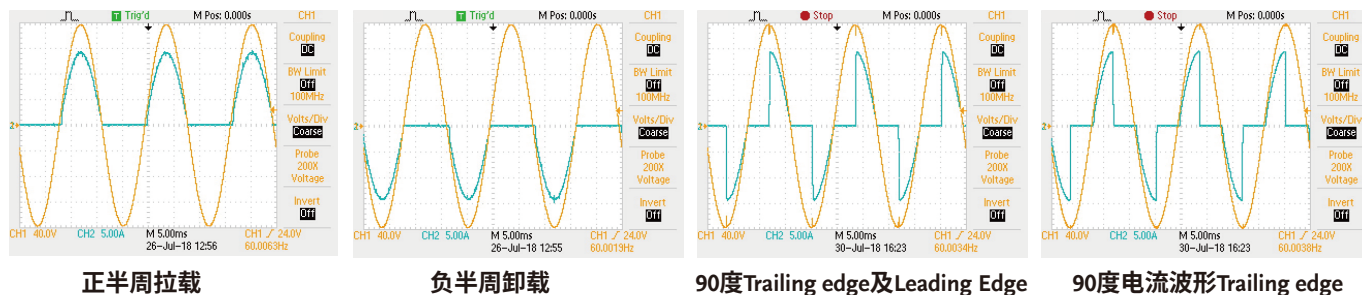
270度拉载



315度卸载

吃载卸载角度控制, 0-359 度全范围都可设定, 用来验证实际电器插拔时 Inverter 输出电压瞬时反应是否稳定, Overshoot/ Undershoot 是否在容许范围内。





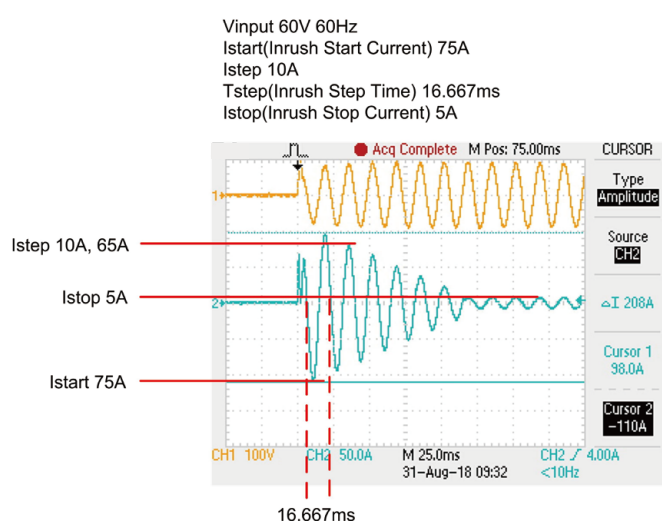
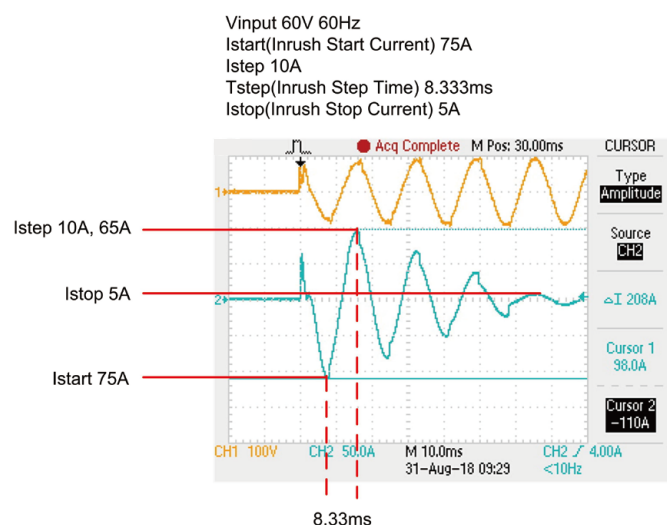
支援正半周与负半周抽载及 SCR/TRIAC 的电流调变波形, 90 度 Trailing edge 及 Leading Edge ; 用来验证实际电器只有正半周或负半周及 SCR/TRIAC 负载电流时, Inverter 输出电压是否维持稳定。

## E. 瞬间电压电流模拟测试

支持电源于开机时之电容性负载 (Inrush Current) 与运行中负载突然接入 (Hot Plug-in) 测试用来验证电器在开机时的瞬间启动电流 (Inrush Current) 及电器突然接上 (Surge Current) 时, Inverter 输出电压瞬时反应是否稳定, 如下图所示。

| MODEL                                                                | AEL-5004-350-37.5<br>AEL-5004-425-37.5 | AEL-5003-350-28<br>AEL-5003-425-28 | AEL-5002-350-18.75<br>AEL-5002-425-18.75 | AEL-5004-480-28 | AEL-5003-480-18.75 |
|----------------------------------------------------------------------|----------------------------------------|------------------------------------|------------------------------------------|-----------------|--------------------|
| <b>Programmable Inrush current simulation: Istart - Istop / Tsep</b> |                                        |                                    |                                          |                 |                    |
| Istart, Inrush Start Current                                         | 0~75A                                  | 0~56A                              | 0~37.5A                                  | 0~56A           | 0~37.5A            |
| Inrush Step time                                                     | 0.1mS~100mS                            |                                    |                                          |                 |                    |
| Istop, Inrush stop current                                           | 0~37.5A                                | 0~28A                              | 0~18.75A                                 | 0~28A           | 0~18.75A           |
| <b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>  |                                        |                                    |                                          |                 |                    |
| S1 and S2 Current                                                    | 0~75A                                  | 0~56A                              | 0~37.5A                                  | 0~56A           | 0~37.5A            |
| T1 and T2 Time                                                       | 0.01S~0.5Sec.                          |                                    |                                          |                 |                    |
| S3 Current                                                           | 0~37.5A                                | 0~28A                              | 0~18.75A                                 | 0~28A           | 0~18.75A           |
| T3 Time                                                              | 0.01S ~ 9.99Sec. Or Cont.              |                                    |                                          |                 |                    |

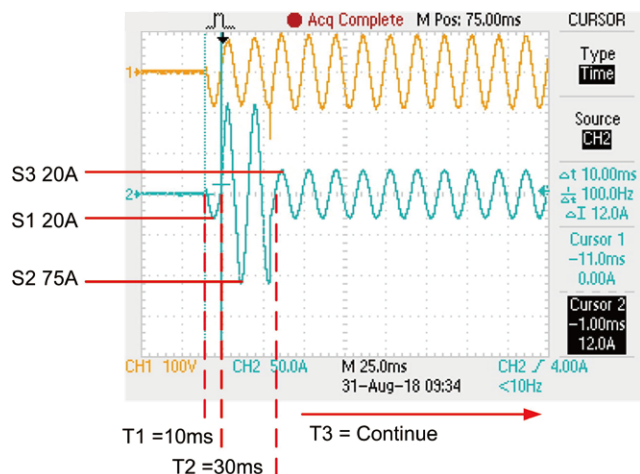
| MODEL                                                                | AEL-5008-350-75<br>AEL-5008-425-75 | AEL-5012-350-112.5<br>AEL-5012-425-112.5 | AEL-5015-350-112.5<br>AEL-5015-425-112.5 | AEL-5019-350-112.5<br>AEL-5019-425-112.5 | AEL-5023-350-112.5<br>AEL-5023-425-112.5 | AEL-5006-350-56<br>AEL-5006-425-56 |
|----------------------------------------------------------------------|------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------|
| <b>Programmable Inrush current simulation: Istart - Istop / Tsep</b> |                                    |                                          |                                          |                                          |                                          |                                    |
| Istart, Inrush Start Current                                         | 0~150A                             | 0~225A                                   | 0~225A                                   | 0~225A                                   | 0~225A                                   | 0~112.0A                           |
| Inrush Step time                                                     | 0.1mS~100mS                        |                                          |                                          |                                          |                                          |                                    |
| Istop, Inrush stop current                                           | 0~75A                              | 0~112.5A                                 | 0~112.5A                                 | 0~112.5A                                 | 0~112.5A                                 | 0~56A                              |
| <b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>  |                                    |                                          |                                          |                                          |                                          |                                    |
| S1 and S2 Current                                                    | 0~150A                             | 0~225A                                   | 0~225A                                   | 0~225A                                   | 0~225A                                   | 0~112.0A                           |
| T1 and T2 Time                                                       | 0.01S~0.5Sec.                      |                                          |                                          |                                          |                                          |                                    |
| S3 Current                                                           | 0~75A                              | 0~112.5A                                 | 0~112.5A                                 | 0~112.5A                                 | 0~112.5A                                 | 0~56A                              |
| T3 Time                                                              | 0.01S ~ 9.99Sec. Or Cont.          |                                          |                                          |                                          |                                          |                                    |



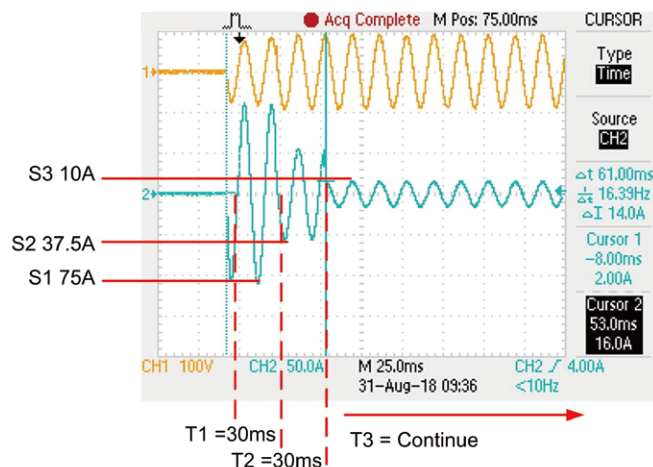
开机时的瞬间启动电流(Inrush Current) 测试

## 交流负载模式

Vinput 60V, 60Hz  
S1(Surge current 1) 20A, T1 (Tstep 1) 0.01 Sec.  
S2(Surge current 2) 75A, T2 (Tstep 2) 0.03 Sec.  
S3(Surge current 3) 20A, T3 (Tstep 3) continue



Vinput 60V, 60Hz  
S1(Surge current 1) 75A, T1 (Tstep 1) 0.03 Sec.  
S2(Surge current 2) 37.5A, T2 (Tstep 2) 0.03 Sec.  
S3(Surge current 3) 10A, T3 (Tstep 3) continue



电器突然接上时的瞬间突波电流(SurgeCurrent)测试

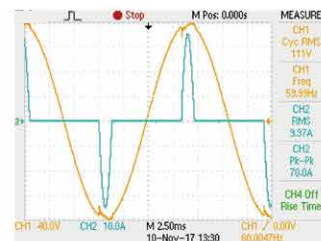
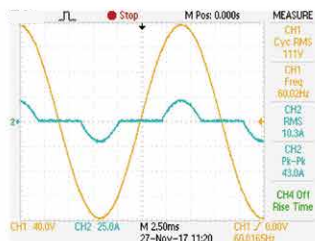
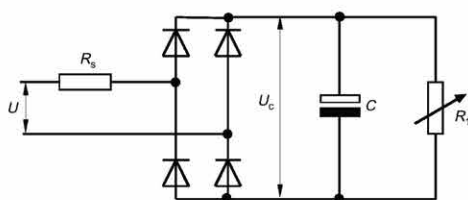
## 交流整流负载仿真

### 符合IEC62040-3andIEC61683测试规范

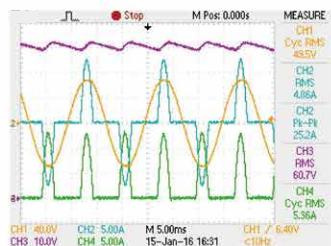
AEL-5000 系列 AC/DC 电子负载的交流整流模式, 符合 IEC 对 UPS 及 PV Inverter 的测试规范要求, 分别是 IEC62040-3 UPS Efficiency Measurement non-Linear and IEC61683 Resistive Plus Non-Linear.

AEL-5000 系列的交流整流性负载模式, 是使用 CC+CR 负载模式并维持电流的 THD 在 80%, 来模拟实际 PV Inverter 所连接的电子设备。

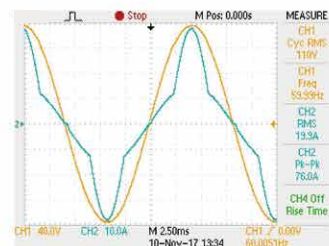
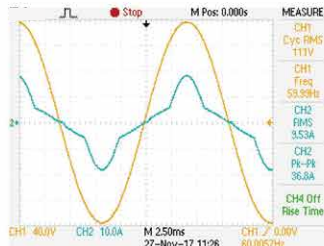
### 整流性负载模式



UPS测试的Non-Linear CC mode

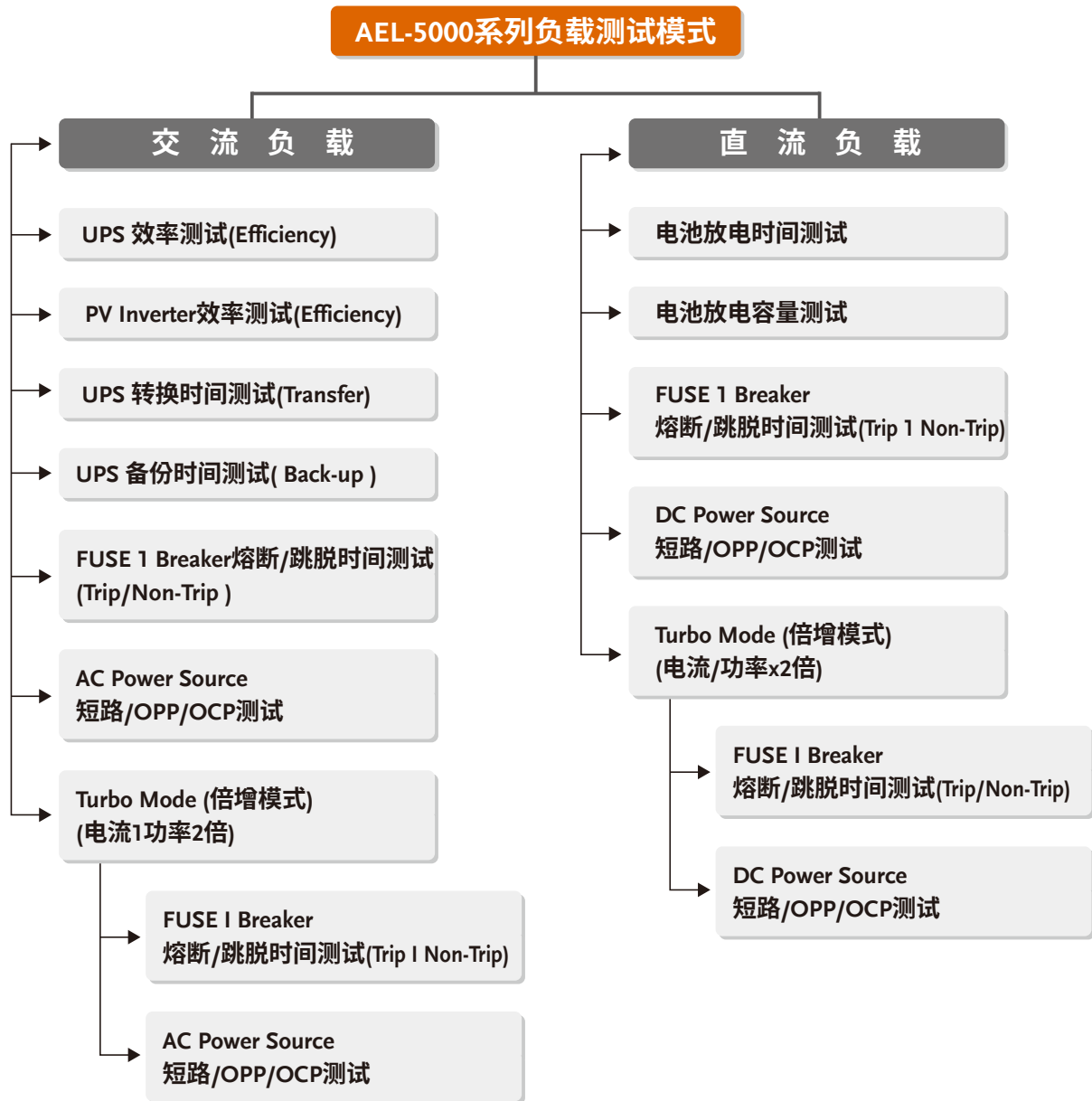


实际的V/A波形



110V, 5A + 22ohm Test Waveform 110V, 10A + 11ohm Test Waveform  
PV Inverter 测试的Non-Linear CC+CR mode(CC+CR)

AEL-5000 系列 AC/DC 电子负载特别内建各种产品所需的测试模式,包括交流部分的 UPS, Inverter, Fuse/Breaker, AC Power Source, 及直流部份的 Battery, Fuse/Breaker, DC Power Source 等,如下图所示。



## A. 电流保护组件测试

电流保护组件包括 Fuse 保险丝, Breaker 断路器及新型的 PTC Resettable fuse 自恢复保险丝等,其作用是当电路电流超过设计的额定值时,也就是负荷超过设计的电流容量时便将电路断开。以避免发生过热、甚至着火,起火等危险。上述保护组件中 Fuse 是 - 次性使用, Breaker 与 PTC 就可以重复使用。

电流保护组件的保护电流值与保护反应时间通常是具有乘积的关系,也就是通过电流保护组件的电流愈大,则其保护断路的反应时间就愈短,这就类似是能量保护组件。

针对这样的特性, AEL-5000 系列交直流电子负载特别针对电流保护组件的测试验证开发出 FuseTest 功能,就能够用一额定电流与功率的电子负载来测试验证此类保护组件。当 Turbo mode( 倍增模式 ) 设置为 ON 时,在 1 秒的测试时间内,测试电流可以倍增到最大电流的 2 倍,以 AEL-5004-350-37.5 为例,最大测试电流可倍增为 75A,也就是使用 AEL-5000 系列的 Turbo mode 为 ON 时,于 1 秒测试时间内就可以达到 2 台 AEL-5000 系列的测试电流值。



Fuse



Breaker



PTC

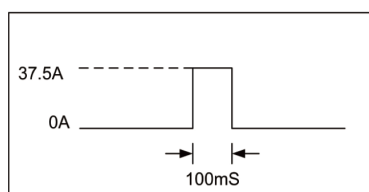
# 负载的各种测试模式

| 型 号                  |           | AEL-5004-350-37.5<br>AEL-5004-425-37.5                | AEL-5003-350-28<br>AEL-5003-425-28 | AEL-5002-350-18.75<br>AEL-5002-425-18.75 | AEL-5004-480-28                                    | AEL-5003-480-18.75          |
|----------------------|-----------|-------------------------------------------------------|------------------------------------|------------------------------------------|----------------------------------------------------|-----------------------------|
| 功率(W)                |           | 3750 W                                                | 2800W                              | 1875 W                                   | 3750 W                                             | 2800W                       |
| 电流(A)                |           | 37.5 Arms / 112.5Apeak                                | 28 Arms / 84Apeak                  | 18.75 Arms / 56.25Apeak                  | 28 Arms / 84Apeak                                  | 18.75 Arms / 56.25Apeak     |
| 电压(V)                |           | 50~350Vrms/500Vdc(350V机型) ; 50~425Vrms/600Vdc(425V机型) |                                    |                                          | 50~480Vrms / 700Vdc                                |                             |
| 频率范围                 |           | DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode)  |                                    |                                          | DC,40~70Hz (CC,CP Mode) , DC~70Hz (LIN,CR,CV Mode) |                             |
| 保险丝测试模式              |           |                                                       |                                    |                                          |                                                    |                             |
| 最大电流                 | Turbo OFF | 37.5Arms                                              | 28.0Arms                           | 18.75Arms                                | 28.0Arms                                           | 18.75Arms                   |
|                      | Turbo ON  | 75.0Arms (x2) <sup>*3</sup>                           | 56.0Arms (x2) <sup>*3</sup>        | 37.5Arms (x2) <sup>*3</sup>              | 56.0Arms (x2) <sup>*3</sup>                        | 37.5Arms (x2) <sup>*3</sup> |
| Trip & Non-Trip Time | Turbo OFF | 0.1 ~ 9999.9sec.                                      |                                    |                                          |                                                    |                             |
|                      | Turbo ON  | 0.1 ~ 1.0sec.                                         |                                    |                                          |                                                    |                             |
| 测量精度                 |           | ±0.003 Sec.                                           |                                    |                                          |                                                    |                             |
| 重复循环                 |           | 0 ~ 255                                               |                                    |                                          |                                                    |                             |
| 短路/过功率/过流保护测试功能      |           |                                                       |                                    |                                          |                                                    |                             |
| 短路时间                 | Turbo OFF | 0.1S ~ 10Sec. Or Cont.                                |                                    |                                          |                                                    |                             |
|                      | Turbo ON  | 0.1S ~ 1Sec                                           |                                    |                                          |                                                    |                             |
| 过功率/过流保护步骤时间         | Turbo OFF | 100ms                                                 |                                    |                                          |                                                    |                             |
|                      | Turbo ON  | 100ms, up to 10 Steps                                 |                                    |                                          |                                                    |                             |
| 过流保护(停止电流)           | Turbo OFF | 37.5Arms                                              | 28.0Arms                           | 18.75Arms                                | 28.0Arms                                           | 18.75Arms                   |
|                      | Turbo ON  | 75.0Arms <sup>*3</sup>                                | 56.0Arms <sup>*3</sup>             | 37.5Arms <sup>*3</sup>                   | 56.0Arms <sup>*3</sup>                             | 37.5Arms <sup>*3</sup>      |
| 过功率保护(停止功率)          | Turbo OFF | 3750W                                                 | 2800W                              | 1875W                                    | 3750W                                              | 2800W                       |
|                      | Turbo ON  | 7500W                                                 | 5600W                              | 3750W                                    | 7500W                                              | 5600W                       |

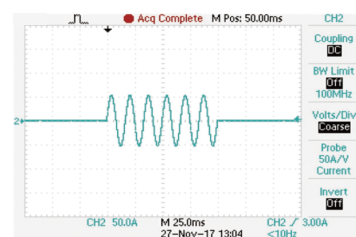
| 型 号                  |           | AEL-5006-350-56<br>AEL-5006-425-56                    | AEL-5008-350-75<br>AEL-5008-425-75 | AEL-5012-350-112.5<br>AEL-5012-425-112.5 | AEL-5015-350-112.5<br>AEL-5015-425-112.5 | AEL-5019-350-112.5<br>AEL-5019-425-112.5 | AEL-5023-350-112.5<br>AEL-5023-425-112.5 |
|----------------------|-----------|-------------------------------------------------------|------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| 功率(W)                |           | 5600 W                                                | 7500 W                             | 11250W                                   | 15000W                                   | 18750W                                   | 22500W                                   |
| 电流(A)                |           | 56Arms/168Apeak                                       | 75Arms/225Apeak                    | 112.5Arms/337.5Apeak                     | 112.5Arms/337.5Apeak                     | 112.5Arms/337.5Apeak                     | 112.5 Arms/337.5Apeak                    |
| 电压(V)                |           | 50~350Vrms/500Vdc(350V机型) ; 50~425Vrms/600Vdc(425V机型) |                                    |                                          |                                          |                                          |                                          |
| 频率范围                 |           | DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode)  |                                    |                                          |                                          |                                          |                                          |
| 保险丝测试模式              |           |                                                       |                                    |                                          |                                          |                                          |                                          |
| 最大<br>电流             | Turbo OFF | 56Arms                                                | 75Arms                             | 112.5Arms                                | 112.5Arms                                | 112.5Arms                                | 112.5Arms                                |
|                      | Turbo ON  | 112Arms (x2) *3                                       | 150Arms (x2) *3                    | 225Arms (x2) *3                          | 225Arms (x2) *3                          | 225Arms (x2) *3                          | 225Arms (x2) *3                          |
| Trip & Non-Trip Time | Turbo OFF | 0.1 ~ 9999.9sec.                                      |                                    |                                          |                                          |                                          |                                          |
|                      | Turbo ON  | 0.1 ~ 1.0sec.                                         |                                    |                                          |                                          |                                          |                                          |
| 测量精度                 |           | ±0.003 Sec.                                           |                                    |                                          |                                          |                                          |                                          |
| 重复循环                 |           | 0 ~ 255                                               |                                    |                                          |                                          |                                          |                                          |
| 短路/过功率/过流保护测试功能      |           |                                                       |                                    |                                          |                                          |                                          |                                          |
| 短路<br>时间             | Turbo OFF | 0.1S ~ 10Sec. Or Cont.                                |                                    |                                          |                                          |                                          |                                          |
|                      | Turbo ON  | 0.1S ~ 1Sec                                           |                                    |                                          |                                          |                                          |                                          |
| 过功率/过流<br>保护步骤时间     | Turbo OFF | 100ms                                                 |                                    |                                          |                                          |                                          |                                          |
|                      | Turbo ON  | 100ms, up to 10 Steps                                 |                                    |                                          |                                          |                                          |                                          |
| 过流保护<br>(停止电流)       | Turbo OFF | 56Arms                                                | 75Arms                             | 112.5Arms                                | 112.5Arms                                | 112.5Arms                                | 112.5Arms                                |
|                      | Turbo ON  | 112Arms                                               | 150Arms                            | 225Arms                                  | 225Arms                                  | 225Arms                                  | 225Arms                                  |
| 过功率保护<br>(停止功率)      | Turbo OFF | 5600W                                                 | 7500W                              | 11250W                                   | 15000W                                   | 18750W                                   | 22500W                                   |
|                      | Turbo ON  | 11200W                                                | 15000W                             | 22500W                                   | 30000W                                   | 37500W                                   | 45000W                                   |



Turbo OFF, Short 100ms 37.5A  
测试结果画面



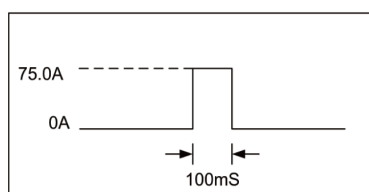
Turbo OFF, Short 100ms 37.5A 设定



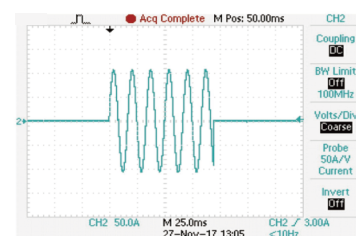
Turbo OFF, Short 100ms 37.5A  
实际测试波形



Turbo ON, Short 100ms 75.0A  
测试结果画面



Turbo ON, Short 100ms 75.0A 设定

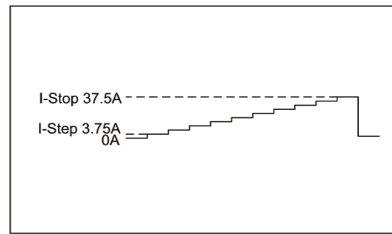


Turbo ON, Short 100ms 75.0A  
实际测试波形

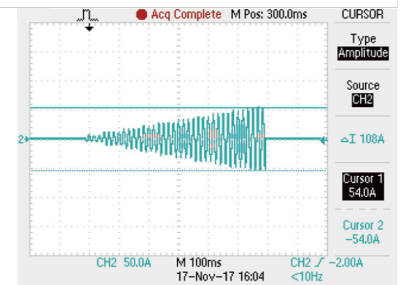




Turbo OFF, OCP Istep 3.75 A Istop 37.5A  
测试结果画面



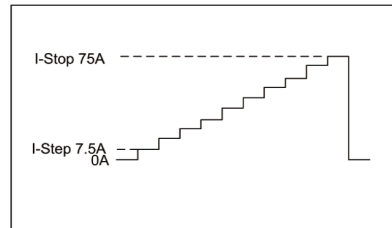
Turbo OFF, OCP Istep 3.75 A Istop 37.5A  
设定



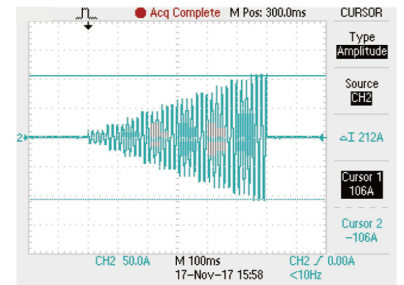
Turbo OFF, OCP Istep 3.75 A Istop 37.5A  
实际测试波形



Turbo ON, OCP Istep 7.5 A Istop 75A  
测试结果画面



Turbo ON, OCP Istep 7.5 A Istop 75.0A  
设定



Turbo ON, OCP Istep 7.5 A Istop 75.0A  
实际测试波形

Fuse Test 基本 . 上分为 Trip (熔断) 与 Non-Trip (没有熔断) 2 种。

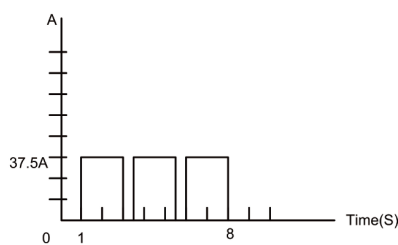
Fuse Test 设定参数包括测试电流 (Istart) , 测试时间 (Time) , 测试重复次数 REPEAT TIME 等。

在 Trip 熔断测试下,是用来测试电流过大异常发生时必须能够提供断路的保护能力,表示电流保护组件需熔断的动作,因此测试电流需要大于熔断的电流规格,当 AEL-5000 系列电子负载侦测到电压低于 1.0V, LCD 就显示 Repeat 次数及电流保护组件的熔断时间 XXXX.X sec.。

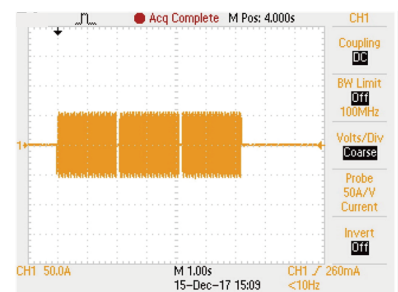
在 Non-Trip 测试下,表示电流保护组件需达到不熔断的动作,因此测试电流需要低于熔断的电流规格,用来验证在正常电流范围内就必须不熔断,当 AEL-5000 系列电子负载在测试时间 (Pulse Time) 与重复 Repeat 次数结束后都没熔断,LCD 显示 Repeat 次数的信息。



Turbo: OFF,Fuse mode测试结果画面



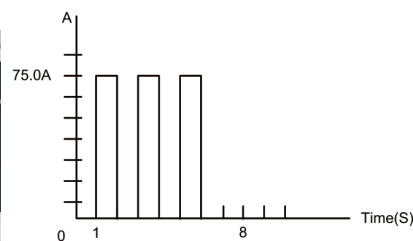
设定: Turbo: OFF,Fuse ON,  
CC pulse 37.5A,2S,测试3次



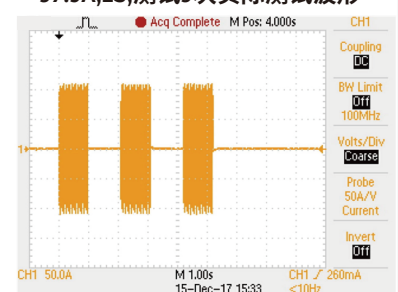
Turbo: OFF,Fuse ON,CC pulse  
37.5A,2S,测试3次实际测试波形



Turbo: ON,Fuse mode测试结果画面



设定: Turbo: ON,Fuse ON,  
CC pulse 75.0A,1S,测试3次

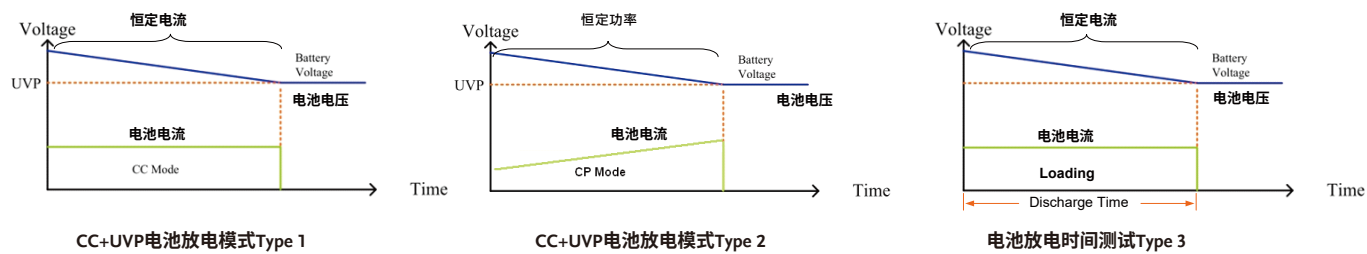


Turbo: ON,Fuse ON,CC pulse 75A,  
1S,测试3次实际测试波形

# 负载的各种测试模式

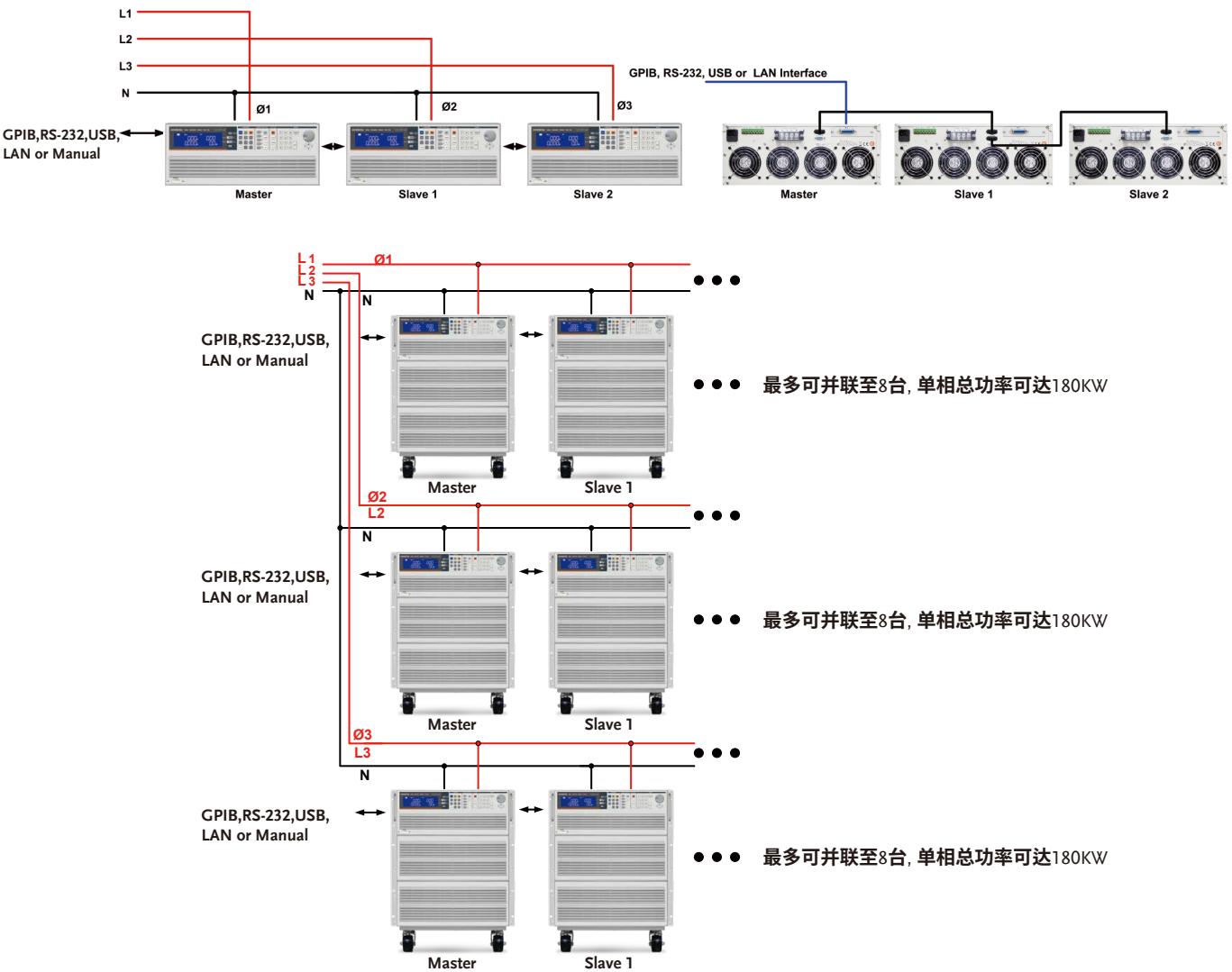
## B. 电池测试功能

AEL-5000 系列负载新增 TYPE1~TYPE3 共二种电池放电测试，可以依需要选择适当的电池测试模式，测试结果可以直接在 LCD 显示器上显示电池的 AH 容量、放电后的电压值、放电的累计时间等数据。



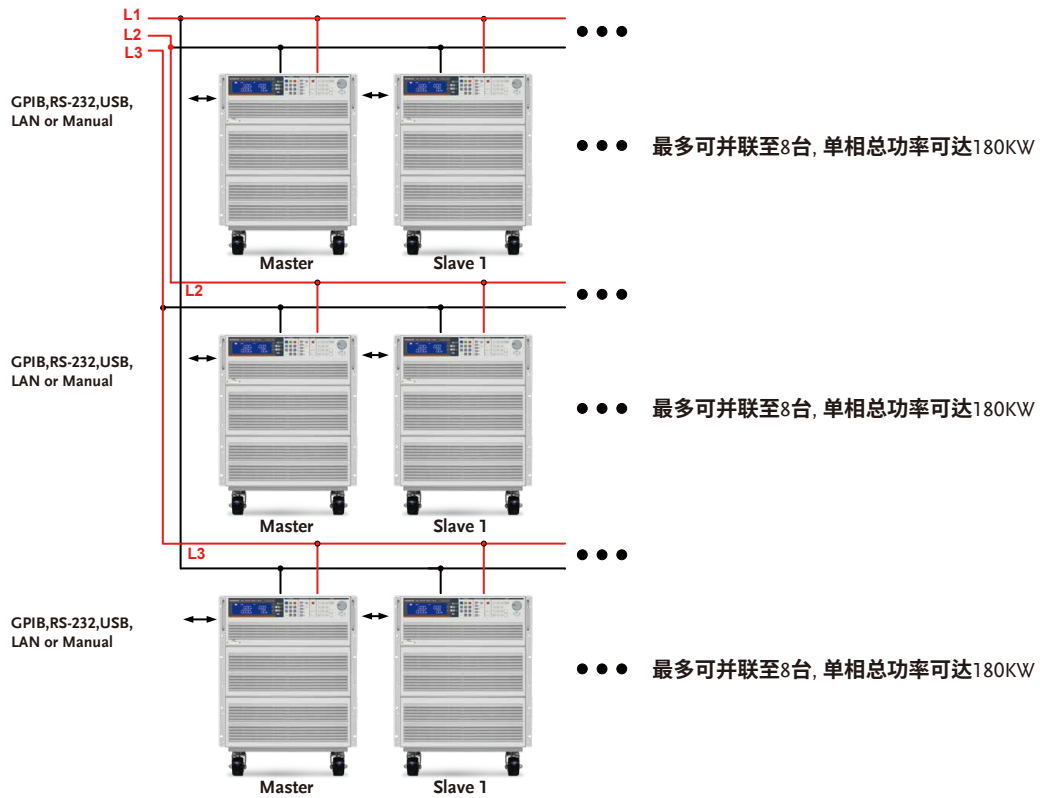
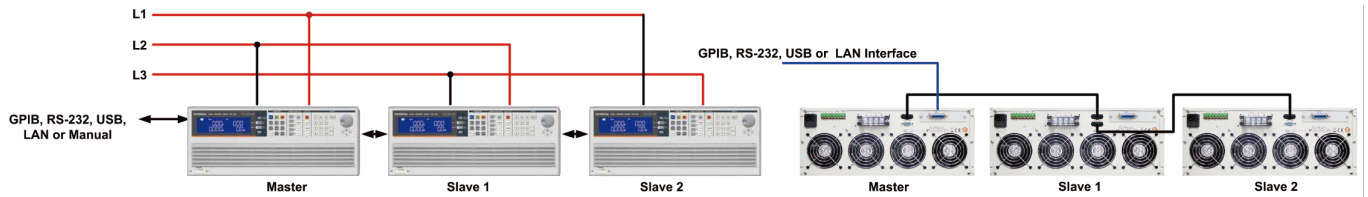
## C. 并联及三相控制

AEL-5000 系列负载提供多台并联、三相应用功能，让用户能够进行更大功率或三相交流电源的测试应用，这样可以更灵活、更弹性的使用 AEL-5000 系列交流电子负载，以节省成本。在并联 / 三相的操作上，使用者如同操作单机一样，只要对 Master 进行操作即可，Slave1 及 Slave2 会自动进行该相的吃载及量测。并联及三相的连接如下图所示。

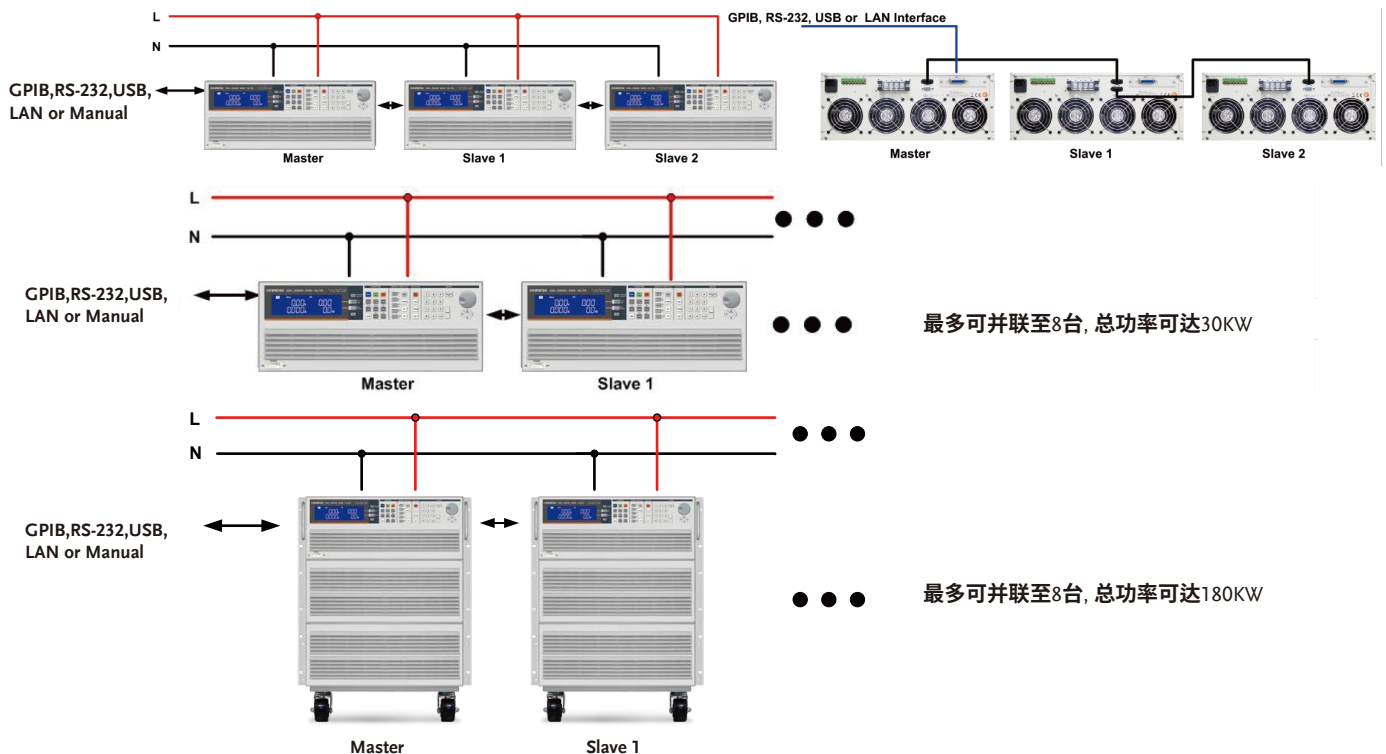


最大单相功率可达180KW, 3相总功率达 540KW 之 3 相 Y 连接

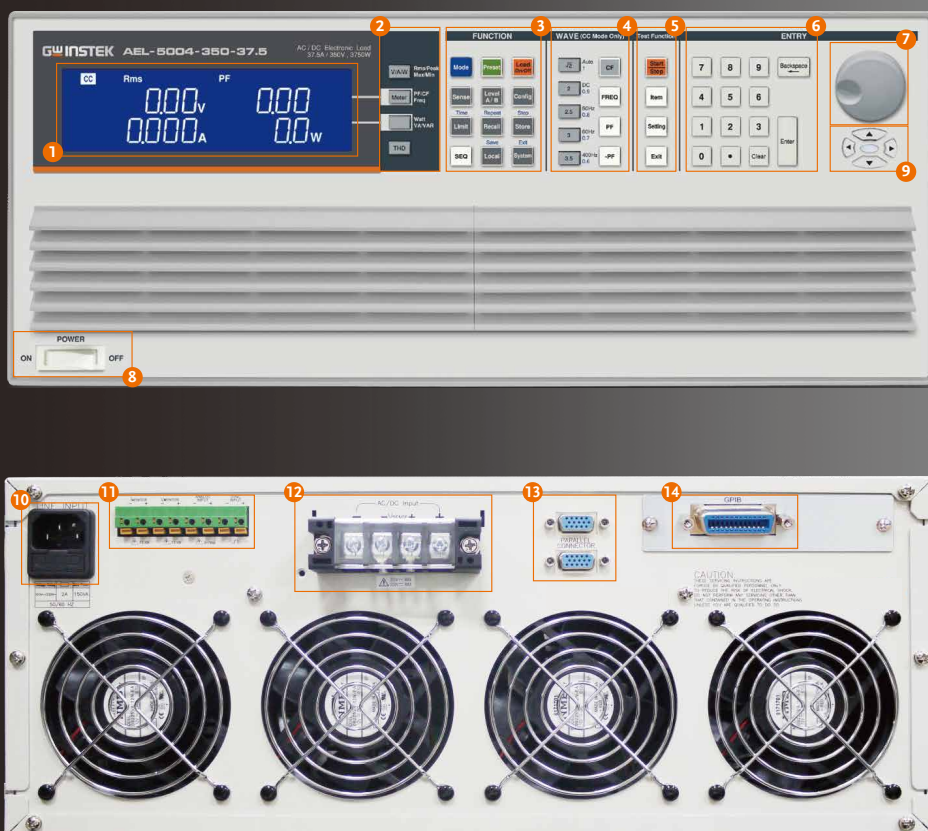
## 负载的各种测试模式



最大单相功率可达180KW, 3相总功率达 540KW 之 3 相  $\Delta$  连接



并联连接



## 1. LCD多功能显示器

四个电表可同时显示电压值 (Vrms, Vpeak, Vmax., Vmin) . 电流值 (Irms, Ipeak, Imax., Imin.) . 瓦特值、伏安值 (VA) 、频率值、峰值因素、功率因素 . 电压谐波失真度 (VTHD, VH) . 电流谐波失真度 (ITHD, IH) 等。

## 2. 电表切换键

V/A/W 键可设定显示 Rms/Peak/Max/Min, Meter 键可选择 PF/CF/FREQ, 可切换显示 WATT/VANVAR 键, THD 键选择显示 THD

## 3. 操作功能键

Mode, Preset ON/OFF, Load ON/OFF, SenseON/OFF, Level A/B, Config, Limit, Recall, Store, SEQ, Local, System 等操作功能键。

## 4. 波形库按键

可快速设定 CF /21212.51313.5, +/- PF0.6/0.7/0.8/0.9/ 1.0, FREQ Auto 150Hz/ 60Hz 400Hz。

## 5. 测试功能键

可选择 Short 1 OPP 1 OCP /Non-L 1 NL-CR /Fuse / Batt(Battery Discharge) 1 Trans (UPStransfer time) 等测试功能。

## 6. 数字按键区

## 7. 设定旋钮

## 8. 电源开关

## 9. 光标与设定按键

## 10. 交流电源输入连接器

## 11. Vmonitor、Imonitor、Analog input、SYNC input输入端子

## 12. Vload, Vsense输入端子

## 13. 主从控制连接器

Master : 上端或下端连接至下一台

Slave : 上端连接至前一台, 下端连接至下一台

## 14. 通讯界面(GPIB、RS-232、USB、LAN)



| 规格                       |                                                      |                   |                            |                              |                                                  |                             |
|--------------------------|------------------------------------------------------|-------------------|----------------------------|------------------------------|--------------------------------------------------|-----------------------------|
| 型号                       | AEL-5004-350-37.5                                    |                   | AEL-5003-350-28            | AEL-5002-350-18.75           | AEL-5004-480-28                                  | AEL-5003-480-18.75          |
| 功率(W)                    | 3750 W                                               |                   | 2800W                      | 1875 W                       | 3750 W                                           | 2800W                       |
| 电流(Ampere)               | 37.5 Arms / 112.5Apeak                               |                   | 28 Arms / 84Apeak          | 18.75 Arms / 56.25Apeak      | 28 Arms / 84Apeak                                | 18.75 Arms / 56.25Apeak     |
| 电压(Volt)                 | 50~350Vrms / 500Vdc                                  |                   |                            |                              | 50~480Vrms / 700Vdc                              |                             |
| 频率范围                     | DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode) |                   |                            |                              | DC,40~70Hz(CC,CP Mode) , DC~70Hz(LIN,CR,CV Mode) |                             |
| 保护功能                     |                                                      |                   |                            |                              |                                                  |                             |
| 过功率保护                    | ≈3937.5Wrms or Programmable                          |                   | ≈2940Wrms or Programmable  | ≈1968.75Wrms or Programmable | ≈3937.5Wrms or Programmable                      | ≈2940Wrms or Programmable   |
| 过电流保护                    | ≈39.375Arms, or Programmable                         |                   | ≈29.4 Arms or Programmable | ≈19.687Arms or Programmable  | ≈29.4Arms or Programmable                        | ≈19.687Arms or Programmable |
| 过压保护                     | ≈367.5Vrms/525Vdc                                    |                   |                            |                              | ≈504Vrms/735Vdc                                  |                             |
| 过温保护                     | Yes                                                  |                   |                            |                              |                                                  |                             |
| 工作模式                     |                                                      |                   |                            |                              |                                                  |                             |
| 正弦波定电流模式                 |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 0~37.5A                                              |                   | 0~28A                      | 0~18.75A                     | 0~28A                                            | 0~18.75A                    |
| 分辨率                      | 0.625mA/16bits                                       |                   | 0.5mA/16bits               | 0.3125mA/16bits              | 0.5mA/16bits                                     | 0.3125mA/16bits             |
| 精度                       | ± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz      |                   |                            |                              |                                                  |                             |
| 线性定电流模式为正弦波,方波或准方波,pwm 波 |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 0~37.5A                                              |                   | 0~28A                      | 0~18.75A                     | 0~28A                                            | 0~18.75A                    |
| 分辨率                      | 0.625mA/16bits                                       |                   | 0.5mA/16bits               | 0.3125mA/16bits              | 0.5mA/16bits                                     | 0.3125mA/16bits             |
| 精度                       | ± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz      |                   |                            |                              |                                                  |                             |
| 定电阻模式                    |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 1.6 ohm~32K ohm                                      |                   | 2.0 ohm~40K ohm            | 3.2 ohm~64K ohm              | 2.5 ohm~50K ohm                                  | 4 ohm~80K ohm               |
| 分辨率                      | 0.010416mS/16bits                                    |                   | 0.0083333mS/16bits         | 0.0052083mS/16bits           | 0.006666mS/16bits                                | 0.004166mS/16bits           |
| 精度                       | ±0.2% of ( setting + range ) @ 50/60Hz               |                   |                            |                              |                                                  |                             |
| 定电压模式                    |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 50 ~ 350Vrms / 500Vdc                                |                   |                            |                              | 50~480Vrms / 700Vdc                              |                             |
| 分辨率                      | 0.1V                                                 |                   |                            |                              | 0.0125V                                          |                             |
| 精度                       | ±(0.1% of setting + 0.1% of range)                   |                   |                            |                              |                                                  |                             |
| 定功率模式                    |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 3750W                                                |                   | 2800W                      | 1875W                        | 3750W                                            | 2800W                       |
| 分辨率                      | 0.1W                                                 |                   | 0.1W                       | 0.1W                         | 0.1W                                             | 0.1W                        |
| 精度                       | ±(0.1% of setting + 0.1% of range) @ 50/60Hz         |                   |                            |                              |                                                  |                             |
| 峰值因数仅CC&CP               |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | √2~5                                                 |                   |                            |                              |                                                  |                             |
| 分辨率                      | 0.1                                                  |                   |                            |                              |                                                  |                             |
| 精度                       | (0.5% / Irms) + 1%F.S.                               |                   |                            |                              |                                                  |                             |
| 功率因数仅CC&CP               |                                                      |                   |                            |                              |                                                  |                             |
| 范围                       | 0~1 Lag or Lead                                      |                   |                            |                              |                                                  |                             |
| 分辨率                      | 0.01                                                 |                   |                            |                              |                                                  |                             |
| 精度                       | 1%F.S.                                               |                   |                            |                              |                                                  |                             |
| 测试模式                     |                                                      |                   |                            |                              |                                                  |                             |
| Ups有效测量                  | Non-Linear Mode                                      |                   |                            |                              |                                                  |                             |
| 工作频率                     | Auto ; 40 ~ 440Hz                                    |                   |                            |                              | Auto ; 40 ~ 70Hz                                 |                             |
| 电流范围                     | 0 ~ 37.5A                                            | 0 ~ 28A           | 0 ~ 18.75A                 | 0 ~ 28A                      | 0 ~ 18.75A                                       |                             |
| 功率因数范围                   | 0~1                                                  |                   |                            |                              |                                                  |                             |
| 光伏系统效率测量, 电力调节器80%       | Resistive + Non-Linear Mode                          |                   |                            |                              |                                                  |                             |
| 工作频率                     | Auto ; 40 ~ 440Hz                                    |                   |                            |                              | Auto ; 40 ~ 70Hz                                 |                             |
| 电流范围                     | 0 ~ 37.5A                                            | 0 ~ 28A           | 0 ~ 18.75A                 | 0 ~ 28A                      | 0 ~ 18.75A                                       |                             |
| 电阻范围                     | 1.6 ohm ~ 32K ohm                                    | 2.0 ohm ~ 40K ohm | 3.2 ohm ~ 64K ohm          | 2.5 ohm ~ 50K ohm            | 4 ohm ~ 80K ohm                                  |                             |
| Ups 备份功能(CC,LIN,CR,CP)   |                                                      |                   |                            |                              |                                                  |                             |
| 欠压保护                     | 50 ~ 350Vrms / 500Vdc                                |                   |                            |                              | 50 ~ 480Vrms / 700Vdc                            |                             |
| UPS备份时间                  | 1 ~ 99999 Sec. (>27H)                                |                   |                            |                              |                                                  |                             |
| 蓄电池放电功能(CC,LIN,CR,CP)    |                                                      |                   |                            |                              |                                                  |                             |
| 欠压保护                     | 50 ~ 350Vrms / 500Vdc                                |                   |                            |                              | 50 ~ 480Vrms / 700Vdc                            |                             |
| 蓄电池放电时间                  | 1 ~ 99999 Sec. (>27H)                                |                   |                            |                              |                                                  |                             |
| Ups 传输时间                 |                                                      |                   |                            |                              |                                                  |                             |
| 电流范围                     | 0 ~ 37.5A                                            | 0 ~ 28A           | 0 ~ 18.75A                 | 0 ~ 28A                      | 0 ~ 18.75A                                       |                             |
| 欠压保护                     | 2.5V                                                 |                   |                            |                              |                                                  |                             |
| 时间范围                     | 0.15mS ~ 999.99mS                                    |                   |                            |                              |                                                  |                             |
| 保险丝测试模式                  |                                                      |                   |                            |                              |                                                  |                             |
| 最大电流                     | Turbo OFF                                            | 37.5Arms          | 28.0Arms                   | 18.75Arms                    | 28.0Arms                                         | 18.75Arms                   |
|                          | Turbo ON                                             | 75.0Arms (x2)*3   | 56.0Arms (x2)*3            | 37.5Arms (x2)*3              | 56.0Arms (x2)*3                                  | 37.5Arms (x2)*3             |
| Trip & Non-Trip Time     | Turbo OFF                                            | 0.1 ~ 9999.9sec.  |                            |                              |                                                  |                             |
|                          | Turbo ON                                             | 0.1 ~ 1.0sec.     |                            |                              |                                                  |                             |
| Meas. Accuracy           | ±0.003 Sec.                                          |                   |                            |                              |                                                  |                             |
| Repeat Cycle             | 0 ~ 255                                              |                   |                            |                              |                                                  |                             |

| 规格                                   |                                                                                                      |                        |                  |                       |                  |                       |
|--------------------------------------|------------------------------------------------------------------------------------------------------|------------------------|------------------|-----------------------|------------------|-----------------------|
| 型号                                   | AEL-5004-350-37.5                                                                                    |                        | AEL-5003-350-28  | AEL-5002-350-18.75    | AEL-5004-480-28  | AEL-5003-480-18.75    |
| 短路/过功率/过流保护测试功能                      |                                                                                                      |                        |                  |                       |                  |                       |
| 短路时间                                 | Turbo OFF                                                                                            | 0.1S ~ 10Sec. Or Cont. |                  |                       |                  |                       |
|                                      | Turbo ON                                                                                             | 0.1S ~ 1Sec            |                  |                       |                  |                       |
| 过功率/过流<br>保护步骤时间                     | Turbo OFF                                                                                            | 100ms                  |                  |                       |                  |                       |
|                                      | Turbo ON                                                                                             | 100ms, up to 10 Steps  |                  |                       |                  |                       |
| 过流保护<br>(停止电流)                       | Turbo OFF                                                                                            | 37.5Arms               | 28.0Arms         | 18.75Arms             | 28.0Arms         | 18.75Arms             |
|                                      | Turbo ON                                                                                             | 75.0Arms *3            | 56.0Arms *3      | 37.5Arms *3           | 56.0Arms *3      | 37.5Arms *3           |
| 过功率保护<br>(停止功率)                      | Turbo OFF                                                                                            | 3750W                  | 2800W            | 1875W                 | 3750W            | 2800W                 |
|                                      | Turbo ON                                                                                             | 7500W                  | 5600W            | 3750W                 | 7500W            | 5600W                 |
| 可编程励磁涌流模拟                            |                                                                                                      |                        |                  |                       |                  |                       |
| Istart, Inrush Start Current         | 0~75A                                                                                                |                        | 0~56A            | 0~37.5A               | 0~56A            | 0~37.5A               |
| Inrush Step time                     | 0.1mS~100mS                                                                                          |                        |                  |                       |                  |                       |
| Istop, Inrush stop current           | 0~37.5A                                                                                              |                        | 0~28A            | 0~18.75A              | 0~28A            | 0~18.75A              |
| 可编程浪涌电流模拟                            |                                                                                                      |                        |                  |                       |                  |                       |
| S1 and S2 Current                    | 0~75A                                                                                                |                        | 0~56A            | 0~37.5A               | 0~56A            | 0~37.5A               |
| T1 and T2 Time                       | 0.01S~0.5Sec.                                                                                        |                        |                  |                       |                  |                       |
| S3 Current                           | 0~37.5A                                                                                              |                        | 0~28A            | 0~18.75A              | 0~28A            | 0~18.75A              |
| T3 Time                              | 0.01S ~ 9.99Sec. Or Cont.                                                                            |                        |                  |                       |                  |                       |
| 测量                                   |                                                                                                      |                        |                  |                       |                  |                       |
| 电压回读                                 |                                                                                                      |                        |                  |                       |                  |                       |
| 范围                                   | 500V                                                                                                 |                        |                  |                       | 700V             |                       |
| 分辨率                                  | 0.01V                                                                                                |                        |                  |                       | 0.0125V          |                       |
| 精度                                   | ± 0.05% of ( reading + range )                                                                       |                        |                  |                       |                  |                       |
| 参数                                   | Vrms, V Max / Min, +/-Vpk                                                                            |                        |                  |                       |                  |                       |
| 电流回读                                 |                                                                                                      |                        |                  |                       |                  |                       |
| 范围                                   | 18.75Arms / 37.5Arms                                                                                 |                        | 14Arms / 28Arms  | 9.375Arms / 18.75Arms | 14Arms / 28Arms  | 9.375Arms / 18.75Arms |
| 分辨率                                  | 0.4mA / 0.8mA                                                                                        |                        | 0.3mA / 0.6mA    | 0.2mA / 0.4mA         | 0.3mA / 0.6mA    | 0.2mA / 0.4mA         |
| 精度                                   | ±0.05% of ( reading + range ) @ 50/60Hz                                                              |                        |                  |                       |                  |                       |
| 参数                                   | Irms,I Max/Min,+/-Ipk                                                                                |                        |                  |                       |                  |                       |
| 电度表                                  |                                                                                                      |                        |                  |                       |                  |                       |
| 范围                                   | 3750W                                                                                                |                        | 2800W            | 1875W                 | 3750W            | 2800W                 |
| 分辨率                                  | 0.0625W                                                                                              |                        | 0.05W            | 0.03125W              | 0.0625W          | 0.05W                 |
| 精度                                   | ±0.1% of ( reading + range )                                                                         |                        |                  |                       |                  |                       |
| 伏安计                                  | Vrms×Arms Correspond To Vrms and Arms                                                                |                        |                  |                       |                  |                       |
| 功率因数计                                |                                                                                                      |                        |                  |                       |                  |                       |
| 范围                                   | +/- 0.000~1.000                                                                                      |                        |                  |                       |                  |                       |
| 精度                                   | ±(0.002±(0.001/PF)*F)                                                                                |                        |                  |                       |                  |                       |
| 频率计                                  |                                                                                                      |                        |                  |                       |                  |                       |
| 范围                                   | DC,40~440Hz                                                                                          |                        |                  |                       | DC,40~70Hz       |                       |
| 精度                                   | 0.1%                                                                                                 |                        |                  |                       |                  |                       |
| 其它参数计量                               |                                                                                                      |                        |                  |                       |                  |                       |
|                                      | VA, VAR, CF_I, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, ITHD, VTHD                                |                        |                  |                       |                  |                       |
| 其它                                   |                                                                                                      |                        |                  |                       |                  |                       |
| 带载开机                                 | Yes , Power on loading during Inverter / UPS start up                                                |                        |                  |                       |                  |                       |
| 抽载与卸除角度控制                            | 0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading                       |                        |                  |                       |                  |                       |
| 半周期和 SCR/TRIAC加载                     | Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed |                        |                  |                       |                  |                       |
| 主/从(3 phase or Parallel application) | Yes, 1 master and upto 7 slave units                                                                 |                        |                  |                       |                  |                       |
| 外部程控输出(选配)                           | F.S / 10Vdc, Resulotion 0.1V                                                                         |                        |                  |                       |                  |                       |
| 外部同步输入                               | TTL                                                                                                  |                        |                  |                       |                  |                       |
| 电压监控(Isolated)                       | ±500V / ±10V                                                                                         |                        |                  |                       | ±700V / ±10V     |                       |
| 电流监控(Isolated)                       | ±112.5Apk / ±10Vpk                                                                                   |                        | ±84Apk / ±10Vpk  | ±56.25Apk / ±10Vpk    | ±84Apk / ±10Vpk  | ±56.25Apk / ±10Vpk    |
| 接口(选配)                               | PIB ; RS-232 ; LAN ; USB                                                                             |                        |                  |                       |                  |                       |
| 最大功率消耗                               | 150VA                                                                                                |                        |                  |                       |                  |                       |
| 工作温度 *2                              | 0 ~ 40 °C                                                                                            |                        |                  |                       |                  |                       |
| 输入阻抗电流(mA)<br>@50/60Hz;@400Hz        | 约V*0.6 ; 约V*4.4                                                                                      |                        | ~V*0.45 ; ~V*3.3 | ~V*0.3 ; ~V*2.2       | ~V*0.4 ; ~V*2.95 | ~V*0.3 ; ~V*2.2       |
| 尺寸( H x W x D )                      | 177 x 440 x 558 mm                                                                                   |                        |                  |                       |                  |                       |
| 重量                                   | 33.5Kg                                                                                               |                        | 27.5Kg           | 21.5Kg                | 33.5Kg           | 27.5Kg                |

输入电源：100~230 Vac ±10%，50/60Hz

冷却方式：智能型风扇冷却

注\*1：ms= milli - siemens = 1/kΩ

注\*2：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C及50/60Hz

注\*3：2倍额定电流和功率的Turbo mode操作模式，主要应用于保险丝(Fuse)、Short / OCP / OPP的测试

| 规格                       |                                                      |                             |                              |                              |                              |                              |
|--------------------------|------------------------------------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 型号                       | AEL-5006-350-56                                      | AEL-5008-350-75             | AEL-5012-350-112.5           | AEL-5015-350-112.5           | AEL-5019-350-112.5           | AEL-5023-350-112.5           |
| 功率(W)                    | 5600W                                                | 7500W                       | 11250W                       | 15000W                       | 18750W                       | 22500W                       |
| 电流(Ampere)               | 56Arms/168Apeak                                      | 75Arms/225Apeak             | 112.5Arms/337.5Apeak         | 112.5Arms/337.5Apeak         | 112.5Arms/337.5Apeak         | 112.5Arms/337.5Apeak         |
| 电压(Volt)                 | 50~350Vrms / 500Vdc                                  |                             |                              |                              |                              |                              |
| 频率范围                     | DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode) |                             |                              |                              |                              |                              |
| 保护功能                     |                                                      |                             |                              |                              |                              |                              |
| 过功率保护                    | ≈5880Wrms or Programmable                            | ≈7875Wrms or Programmable   | ≈11812.5Wrms or Programmable | ≈15750Wrms or Programmable   | ≈19687.5Wrms or Programmable | ≈23625Wrms or Programmable   |
| 过电流保护                    | ≈58.8Arms, or Programmable                           | ≈78.75Arms, or Programmable | ≈118.125Arms or Programmable | ≈118.125Arms or Programmable | ≈118.125Arms or Programmable | ≈118.125Arms or Programmable |
| 过压保护                     | ≈367.5 Vrms / 525Vdc                                 |                             |                              |                              |                              |                              |
| 过温保护                     | Yes                                                  |                             |                              |                              |                              |                              |
| 工作模式                     |                                                      |                             |                              |                              |                              |                              |
| 正弦波定电流模式                 |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 0~56A                                                | 0~75A                       | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     |
| 分辨率                      | 1mA/16bits                                           | 1.25mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               |
| 精度                       | ±（0.1% of setting + 0.2% of range）@ 50/60Hz          |                             |                              |                              |                              |                              |
| 线性定电流模式为正弦波,方波或准方波,pwm 波 |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 0~56A                                                | 0~75A                       | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     |
| 分辨率                      | 1mA/16bits                                           | 1.25mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               | 1.875mA/16bits               |
| 精度                       | ±（0.1% of setting + 0.2% of range）@ 50/60Hz          |                             |                              |                              |                              |                              |
| 定电阻模式                    |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 1Ω~20KΩ                                              | 0.8Ω~16KΩ                   | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              |
| 分辨率                      | 0.01666mS/16bits                                     | 0.020832mS/16bits           | 0.031248mS/16bits            | 0.031248mS/16bits            | 0.031248mS/16bits            | 0.031248mS/16bits            |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                   |                             |                              |                              |                              |                              |
| 定电压模式                    |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 50 ~ 350Vrms / 500Vdc                                |                             |                              |                              |                              |                              |
| 分辨率                      | 0.1V                                                 |                             |                              |                              |                              |                              |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                   |                             |                              |                              |                              |                              |
| 定功率模式                    |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 5600W                                                | 7500W                       | 11250W                       | 15000W                       | 18750W                       | 22500W                       |
| 分辨率                      | 0.1W                                                 | 0.1W                        | 1W                           | 1W                           | 1W                           | 1W                           |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                   |                             |                              |                              |                              |                              |
| 峰值因数仅CC&CP               |                                                      |                             |                              |                              |                              |                              |
| 范围                       | √2~5                                                 |                             |                              |                              |                              |                              |
| 分辨率                      | 0.1                                                  |                             |                              |                              |                              |                              |
| 精度                       | (0.5% / Irms) + 1%F.S.                               |                             |                              |                              |                              |                              |
| 功率因数仅CC&CP               |                                                      |                             |                              |                              |                              |                              |
| 范围                       | 0~1 Lag or Lead                                      |                             |                              |                              |                              |                              |
| 分辨率                      | 0.01                                                 |                             |                              |                              |                              |                              |
| 精度                       | 1%F.S.                                               |                             |                              |                              |                              |                              |
| 测试模式                     |                                                      |                             |                              |                              |                              |                              |
| Ups有效测量                  | Non-Linear Mode                                      |                             |                              |                              |                              |                              |
| 工作频率                     | Auto ; 40 ~ 440Hz                                    |                             |                              |                              |                              |                              |
| 电流范围                     | 0~56A                                                | 0~75A                       | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     |
| 功率因数范围                   | 0~1                                                  |                             |                              |                              |                              |                              |
| 光伏系统效率测量, 电力调节器80%       | Resistive + Non-Linear Mode                          |                             |                              |                              |                              |                              |
| 工作频率                     | Auto ; 40 ~ 440Hz                                    |                             |                              |                              |                              |                              |
| 电流范围                     | 0~56A                                                | 0~75A                       | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     |
| 电阻范围                     | 1Ω~20KΩ                                              | 0.8Ω~16KΩ                   | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              |
| Ups 备份功能(CC,LIN,CR,CP)   |                                                      |                             |                              |                              |                              |                              |
| 欠压保护                     | 50 ~ 350Vrms / 500Vdc                                |                             |                              |                              |                              |                              |
| UPS备份时间                  | 1 ~ 99999 Sec. (>27H)                                |                             |                              |                              |                              |                              |
| 蓄电池放电功能(CC,LIN,CR,CP)    |                                                      |                             |                              |                              |                              |                              |
| 欠压保护                     | 50 ~ 350Vrms / 500Vdc                                |                             |                              |                              |                              |                              |
| 蓄电池放电时间                  | 1 ~ 99999 Sec. (>27H)                                |                             |                              |                              |                              |                              |
| Ups 传输时间                 |                                                      |                             |                              |                              |                              |                              |
| 电流范围                     | 0~56A                                                | 0~75A                       | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     | 0~112.5A                     |
| 欠压保护                     | 2.5V                                                 |                             |                              |                              |                              |                              |
| 时间范围                     | 0.15mS ~ 999.99mS                                    |                             |                              |                              |                              |                              |
| 保险丝测试模式                  |                                                      |                             |                              |                              |                              |                              |
| 最大电流                     | Turbo OFF                                            | 56Arms                      | 75Arms                       | 112.5Arms                    | 112.5Arms                    | 112.5Arms                    |
|                          | Turbo ON                                             | 112Arms (x2) *3             | 150Arms (x2) *3              | 225Arms (x2) *3              | 225Arms (x2) *3              | 225Arms (x2) *3              |
| Trip & Non-Trip Time     | Turbo OFF                                            | 0.1 ~ 9999.9sec.            |                              |                              |                              |                              |
|                          | Turbo ON                                             | 0.1 ~ 1.0sec.               |                              |                              |                              |                              |
| Meas. Accuracy           | ±0.003 Sec.                                          |                             |                              |                              |                              |                              |
| Repeat Cycle             | 0 ~ 255                                              |                             |                              |                              |                              |                              |

| 规格                                    |                                                                                                      |                        |                     |                     |                     |                     |                     |
|---------------------------------------|------------------------------------------------------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 型号                                    | AEL-5006-350-56                                                                                      |                        | AEL-5008-350-75     | AEL-5012-350-112.5  | AEL-5015-350-112.5  | AEL-5019-350-112.5  | AEL-5023-350-112.5  |
| 短路/过功率/过流保护测试功能                       |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 短路时间                                  | Turbo OFF                                                                                            | 0.1S ~ 10Sec. Or Cont. |                     |                     |                     |                     |                     |
|                                       | Turbo ON                                                                                             | 0.1S ~ 1Sec            |                     |                     |                     |                     |                     |
| 过功率/过流<br>保护步骤时间                      | Turbo OFF                                                                                            | 100ms                  |                     |                     |                     |                     |                     |
|                                       | Turbo ON                                                                                             | 100ms, up to 10 Steps  |                     |                     |                     |                     |                     |
| 过流保护<br>(停止电流)                        | Turbo OFF                                                                                            | 56Arms                 | 75Arms              | 112.5Arms           | 112.5Arms           | 112.5Arms           | 112.5Arms           |
|                                       | Turbo ON                                                                                             | 112Arms                | 150Arms             | 225Arms             | 225Arms             | 225Arms             | 225Arms             |
| 过功率保护<br>(停止功率)                       | Turbo OFF                                                                                            | 5600W                  | 7500W               | 11250W              | 15000W              | 18750W              | 22500W              |
|                                       | Turbo ON                                                                                             | 11200W                 | 15000W              | 22500W              | 30000W              | 37500W              | 45000W              |
| 可编程励磁涌流模拟                             |                                                                                                      |                        |                     |                     |                     |                     |                     |
| Istart, Inrush Start Current          | 0~112A                                                                                               |                        | 0~150A              | 0~225A              | 0~225A              | 0~225A              | 0~225A              |
| Inrush Step time                      | 0.1mS~100mS                                                                                          |                        |                     |                     |                     |                     |                     |
| Istop, Inrush stop current            | 0~56A                                                                                                |                        | 0~75A               | 0~112.5A            | 0~112.5A            | 0~112.5A            | 0~112.5A            |
| 可编程浪涌电流模拟                             |                                                                                                      |                        |                     |                     |                     |                     |                     |
| S1 and S2 Current                     | 0~112A                                                                                               |                        | 0~150A              | 0~225A              | 0~225A              | 0~225A              | 0~225A              |
| T1 and T2 Time                        | 0.01S~0.5Sec.                                                                                        |                        |                     |                     |                     |                     |                     |
| S3 Current                            | 0~56A                                                                                                |                        | 0~75A               | 0~112.5A            | 0~112.5A            | 0~112.5A            | 0~112.5A            |
| T3 Time                               | 0.01S ~ 9.99Sec. Or Cont.                                                                            |                        |                     |                     |                     |                     |                     |
| 测量                                    |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 电压回读                                  |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 范围                                    | 500V                                                                                                 |                        |                     |                     |                     |                     |                     |
| 分辨率                                   | 0.01V                                                                                                |                        |                     |                     |                     |                     |                     |
| 精度                                    | ±0.05% of (reading + range)                                                                          |                        |                     |                     |                     |                     |                     |
| 参数                                    | Vrms,V Max/Min,+/-Vpk                                                                                |                        |                     |                     |                     |                     |                     |
| 电流回读                                  |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 范围                                    | 28Arms/56Arms                                                                                        | 37.5Arms/75Arms        | 56.25Arms/112.5Arms | 56.25Arms/112.5Arms | 56.25Arms/112.5Arms | 56.25Arms/112.5Arms | 56.25Arms/112.5Arms |
| 分辨率                                   | 0.6mA/1.2mA                                                                                          | 0.8mA/1.6mA            | 1.2mA/2.4mA         | 1.2mA/2.4mA         | 1.2mA/2.4mA         | 1.2mA/2.4mA         | 1.2mA/2.4mA         |
| 精度                                    | ±0.1% of (reading + range)@ 50/60Hz                                                                  |                        |                     |                     |                     |                     |                     |
| 参数                                    | Irms,I Max/Min,+/-Ipk                                                                                |                        |                     |                     |                     |                     |                     |
| 电度表                                   |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 范围                                    | 5600W                                                                                                | 7500W                  | 11250W              | 15000W              | 18750W              | 22500W              | 22500W              |
| 分辨率                                   | 0.1W                                                                                                 | 0.125W                 | 0.1875W             | 0.25W               | 0.3125W             | 0.375W              | 0.375W              |
| 精度                                    | ±0.2% of (reading + range)                                                                           |                        |                     |                     |                     |                     |                     |
| 伏安计                                   | VrmsxArms Correspond To Vrms and Arms                                                                |                        |                     |                     |                     |                     |                     |
| 功率因数计                                 |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 范围                                    | +/- 0.000~1.000                                                                                      |                        |                     |                     |                     |                     |                     |
| 精度                                    | ±(0.002±(0.001/PF)*F)                                                                                |                        |                     |                     |                     |                     |                     |
| 频率计                                   |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 范围                                    | DC,40~440Hz                                                                                          |                        |                     |                     |                     |                     |                     |
| 精度                                    | 0.1%                                                                                                 |                        |                     |                     |                     |                     |                     |
| 其它参数计量                                |                                                                                                      |                        |                     |                     |                     |                     |                     |
|                                       | VA, VAR, CF_L, Ipeak, Imax., Imin., Vmax., Vmin., IHD, VHD, ITHD, VTHD                               |                        |                     |                     |                     |                     |                     |
| 其它                                    |                                                                                                      |                        |                     |                     |                     |                     |                     |
| 带载开机                                  | Yes , Power on loading during Inverter / UPS start up                                                |                        |                     |                     |                     |                     |                     |
| 抽载与卸除角度控制                             | 0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading                       |                        |                     |                     |                     |                     |                     |
| 半周期和 SCR/TRIAC加载                      | Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed |                        |                     |                     |                     |                     |                     |
| 主/从( 3 phase or Parallel application) | Yes, 1 master and upto 7 slave unit                                                                  |                        |                     |                     |                     |                     |                     |
| 外部程控输出(选配)                            | F.S / 10Vdc, Resulotion 0.1V                                                                         |                        |                     |                     |                     |                     |                     |
| 外部同步输入                                | TTL                                                                                                  |                        |                     |                     |                     |                     |                     |
| 电压监控(Isolated)                        | ±500V / ±10V                                                                                         |                        |                     |                     |                     |                     |                     |
| 电流监控(Isolated)                        | ±168Apk / ±10Vpk                                                                                     | ±225Apk / ±10Vpk       | ±337.5Apk / ±10Vpk  | ±337.5Apk / ±10Vpk  | ±337.5Apk / ±10Vpk  | ±337.5Apk / ±10Vpk  | ±337.5Apk / ±10Vpk  |
| 接口(选配)                                | GPIB : RS-232 : LAN : USB                                                                            |                        |                     |                     |                     |                     |                     |
| 最大功率消耗                                | 270VA                                                                                                | 270VA                  | 390VA               | 510VA               | 630VA               | 750VA               | 750VA               |
| 工作温度 <sup>2</sup>                     | 0 ~ 40 °C                                                                                            |                        |                     |                     |                     |                     |                     |
| 输入阻抗电流(mA)<br>@50/60Hz;@400Hz         | ~V*0.9 ; ~V*6.6                                                                                      | ~V*1.2 ; ~V*8.8        | ~V*1.8 ; ~V*13.2    | ~V*2.4 ; ~V*17.6    | ~V*3.0 ; ~V*22      | ~V*3.6 ; ~V*26.4    | ~V*3.6 ; ~V*26.4    |
| 尺寸( H x W x D )                       | 458 x 480 x 593 mm                                                                                   | 458 x 480 x 593 mm     | 636 x 480 x 593 mm  | 814 x 480 x 593 mm  | 1285 x 600 x 600 mm | 1285 x 600 x 600 mm | 1285 x 600 x 600 mm |
| 重量                                    | 58 kg                                                                                                | 70 kg                  | 105kg               | 140kg               | 260kg               | 295kg               | 295kg               |

输入电源：115 / 230 Vac ±10%，50/60Hz

冷却方式：智能型风扇冷却

注\*1：ms= milli - siemens = 1/kΩ

注\*2：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C及50/60Hz

注\*3：2倍额定电流和功率的Turbo mode操作模式，主要应用于保险丝(Fuse)、Short / OCP / OPP的测试



| 规格                       |                                                   |                           |                              |                                        |                            |                              |
|--------------------------|---------------------------------------------------|---------------------------|------------------------------|----------------------------------------|----------------------------|------------------------------|
| 型号                       | AEL-5002-425-18.75                                | AEL-5003-425-28           | AEL-5004-425-37.5            | AEL-5006-425-56                        | AEL-5008-425-75            | AEL-5012-425-112.5           |
| 功率(W)                    | 1875 W                                            | 2800W                     | 3750 W                       | 5600 W                                 | 7500 W                     | 11250W                       |
| 电流(Ampere)               | 18.75 Arms/56.25Apeak                             | 28 Arms/84Apeak           | 37.5 Arms/112.5Apeak         | 56 Arms/168Apeak                       | 75 Arms/225Apeak           | 112.5 Arms/337.5Apeak        |
| 电压(Volt)                 | 50~425Vrms/600Vdc                                 |                           |                              |                                        |                            |                              |
| 频率范围                     | DC,40~440Hz(CC,CP Mode), DC~440Hz(LIN,CR,CV Mode) |                           |                              |                                        |                            |                              |
| 保护功能                     |                                                   |                           |                              |                                        |                            |                              |
| 过功率保护                    | ≈1968.75Wrms or Programmable                      | ≈2940Wrms or Programmable | ≈3937.5Wrms or Programmable  | ≈5880Wrms or Programmable              | ≈7875Wrms or Programmable  | ≈11812.5Wrms or Programmable |
| 过电流保护                    | ≈19.687Arms or Programmable                       | ≈29.4Arms or Programmable | ≈39.375Arms, or Programmable | ≈58.8Arms, or Programmable             | ≈78.75Arms or Programmable | ≈118.125Arms or Programmable |
| 过压保护                     | ≈446.25 Vrms/630Vdc                               |                           |                              |                                        |                            |                              |
| 过温保护                     | Yes                                               |                           |                              |                                        |                            |                              |
| 工作模式                     |                                                   |                           |                              |                                        |                            |                              |
| 正弦波定电流模式                 |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 0~18.75A                                          | 0~28A                     | 0~37.5A                      | 0~56A                                  | 0~75A                      | 0~112.5A                     |
| 分辨率                      | 0.3125mA/16bits                                   | 0.5mA/16bits              | 0.625mA/16bits               | 1mA/16bits                             | 1.25mA/16bits              | 1.875mA/16bits               |
| 精度                       | ± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz   |                           |                              |                                        |                            |                              |
| 线性定电流模式为正弦波,方波或准方波,pwm 波 |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 0~18.75A                                          | 0~28A                     | 0~37.5A                      | 0~56A                                  | 0~75A                      | 0~112.5A                     |
| 分辨率                      | 0.3125mA/16bits                                   | 0.5mA/16bits              | 0.625mA/16bits               | 1mA/16bits                             | 1.25mA/16bits              | 1.875mA/16bits               |
| 精度                       | ± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz   |                           |                              |                                        |                            |                              |
| 定电阻模式                    |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 3.2Ω~64KΩ                                         | 2.0Ω~40KΩ                 | 1.6Ω~32KΩ                    | 1Ω~20KΩ                                | 0.8Ω~16KΩ                  | 0.533Ω~10.666KΩ              |
| 分辨率                      | 0.0052083mS/16bits                                | 0.0083333mS/16bits        | 0.010416mS/16bits            | 0.016666mS/16bits                      | 0.020832mS/16bits          | 0.031248mS/16bits            |
| 精度                       | ±0.2% of ( setting + range ) @ 50/60Hz            |                           |                              |                                        |                            |                              |
| 定电压模式                    |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 50~425Vrms / 600Vdc                               |                           |                              | 50~425Vrms / 600Vdc                    |                            |                              |
| 分辨率                      | 0.1V                                              |                           |                              | 0.1V                                   |                            |                              |
| 精度                       | ±(0.1% of setting + 0.1% of range)                |                           |                              | ±0.2% of ( setting + range ) @ 50/60Hz |                            |                              |
| 定功率模式                    |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 1875W                                             | 2800W                     | 3750W                        | 5600W                                  | 7500W                      | 11250W                       |
| 分辨率                      | 0.1W                                              | 0.1W                      | 0.1W                         | 0.1W                                   | 0.1W                       | 1W                           |
| 精度                       | ±(0.1% of setting + 0.1% of range)                |                           |                              | ±0.2% of ( setting + range ) @ 50/60Hz |                            |                              |
| 峰值因数仅CC&CP               |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | $\sqrt{2} \sim 5$                                 |                           |                              |                                        |                            |                              |
| 分辨率                      | 0.1                                               |                           |                              |                                        |                            |                              |
| 精度                       | (0.5% / Irms) + 1% F.S.                           |                           |                              |                                        |                            |                              |
| 功率因数仅CC&CP               |                                                   |                           |                              |                                        |                            |                              |
| 范围                       | 0~1 Lag or Lead                                   |                           |                              |                                        |                            |                              |
| 分辨率                      | 0.01                                              |                           |                              |                                        |                            |                              |
| 精度                       | 1% F.S.                                           |                           |                              |                                        |                            |                              |
| 测试模式                     |                                                   |                           |                              |                                        |                            |                              |
| Ups有效测量                  | Non-Linear Mode                                   |                           |                              |                                        |                            |                              |
| 工作频率                     | Auto ; 40~440Hz                                   |                           |                              |                                        |                            |                              |
| 电流范围                     | 0~18.75A                                          | 0~28A                     | 0~37.5A                      | 0~56A                                  | 0~75A                      | 0~112.5A                     |
| 功率因数范围                   | 0~1                                               |                           |                              |                                        |                            |                              |
| 光伏系统效率测量, 电力调节器80%       | Resistive + Non-Linear Mode                       |                           |                              |                                        |                            |                              |
| 工作频率                     | Auto ; 40~440Hz                                   |                           |                              |                                        |                            |                              |
| 电流范围                     | 0~18.75A                                          | 0~28A                     | 0~37.5A                      | 0~56A                                  | 0~75A                      | 0~112.5A                     |
| 电阻范围                     | 3.2Ω~64KΩ                                         | 2.0Ω~40KΩ                 | 1.6Ω~32KΩ                    | 1Ω~20KΩ                                | 0.8Ω~16KΩ                  | 0.533Ω~10.666KΩ              |
| Ups 备份功能(CC,LIN,CR,CP)   |                                                   |                           |                              |                                        |                            |                              |
| 欠压保护                     | 50~425Vrms / 600Vdc                               |                           |                              |                                        |                            |                              |
| UPS备份时间                  | 1~99999 Sec. (>27H)                               |                           |                              |                                        |                            |                              |
| 蓄电池放电功能(CC,LIN,CR,CP)    |                                                   |                           |                              |                                        |                            |                              |
| 欠压保护                     | 50~425Vrms / 600Vdc                               |                           |                              |                                        |                            |                              |
| 蓄电池放电时间                  | 1~99999 Sec. (>27H)                               |                           |                              |                                        |                            |                              |
| Ups 传输时间                 |                                                   |                           |                              |                                        |                            |                              |
| 电流范围                     | 0~18.75A                                          | 0~28A                     | 0~37.5A                      | 0~56A                                  | 0~75A                      | 0~112.5A                     |
| 欠压保护                     | 2.5V                                              |                           |                              |                                        |                            |                              |
| 时间范围                     | 0.15mS~999.99mS                                   |                           |                              |                                        |                            |                              |
| 保险丝测试模式                  |                                                   |                           |                              |                                        |                            |                              |
| 最大电流                     | Turbo OFF                                         | 18.75Arms                 | 28.0Arms                     | 37.5Arms                               | 75Arms                     | 112.5Arms                    |
|                          | Turbo ON                                          | 37.5Arms(x2) *3           | 56.0Arms(x2) *3              | 75.0Arms(x2) *3                        | 150Arms(x2) *3             | 225Arms(x2) *3               |
| Trip & Non-Trip Time     | Turbo OFF                                         | 0.1~9999.9sec.            |                              |                                        |                            |                              |
|                          | Turbo ON                                          | 0.1~1.0sec.               |                              |                                        |                            |                              |
| Meas. Accuracy           | ±0.003 Sec.                                       |                           |                              |                                        |                            |                              |
| Repeat Cycle             | 0~255                                             |                           |                              |                                        |                            |                              |

| 规格                                   |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
|--------------------------------------|------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------------------|-----------------------------------------------------------------|--------------------|---------------------|
| 型号                                   | AEL-5002-425-18.75                                                                                   |                        | AEL-5003-425-28    | AEL-5004-425-37.5  | AEL-5006-425-56                                                 | AEL-5008-425-75    | AEL-5012-425-112.5  |
| 短路/过功率/过流保护测试功能                      |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 短路时间                                 | Turbo OFF                                                                                            | 0.1S ~ 10Sec. Or Cont. |                    |                    |                                                                 |                    |                     |
|                                      | Turbo ON                                                                                             | 0.1S ~ 1Sec            |                    |                    |                                                                 |                    |                     |
| 过功率/过流<br>保护步骤时间                     | Turbo OFF                                                                                            | 100ms                  |                    |                    |                                                                 |                    |                     |
|                                      | Turbo ON                                                                                             | 100ms, up to 10 Steps  |                    |                    |                                                                 |                    |                     |
| 过流保护<br>(停止电流)                       | Turbo OFF                                                                                            | 18.75Arms              | 28.0Arms           | 37.5Arms           | 56Arms                                                          | 75Arms             | 112.5Arms           |
|                                      | Turbo ON                                                                                             | 37.5Arms               | 56.0Arms           | 75.0Arms           | 112Arms                                                         | 150Arms            | 225Arms             |
| 过功率保护<br>(停止功率)                      | Turbo OFF                                                                                            | 1875W                  | 2800W              | 3750W              | 5600W                                                           | 7500W              | 11250W              |
|                                      | Turbo ON                                                                                             | 3750W                  | 5600W              | 7500W              | 11200W                                                          | 15000W             | 22500W              |
| 可编程序励磁涌流模拟                           |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| Istart, Inrush Start Current         | 0~37.5A                                                                                              |                        | 0~56A              | 0~75A              | 0~112A                                                          | 0~150A             | 0~225A              |
| Inrush Step time                     | 0.1mS~100mS                                                                                          |                        |                    |                    |                                                                 |                    |                     |
| Istop, Inrush stop current           | 0~18.75A                                                                                             |                        | 0~28A              | 0~37.5A            | 0~56A                                                           | 0~75A              | 0~112.5A            |
| 可编程浪涌电流模拟                            |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| S1 and S2 Current                    | 0~37.5A                                                                                              |                        | 0~56A              | 0~75A              | 0~112A                                                          | 0~150A             | 0~225A              |
| T1 and T2 Time                       | 0.01S~0.5Sec.                                                                                        |                        |                    |                    | 0.01S~0.5Sec.                                                   |                    |                     |
| S3 Current                           | 0~18.75A                                                                                             |                        | 0~28A              | 0~37.5A            | 0~56A                                                           | 0~75A              | 0~112.5A            |
| T3 Time                              | 0.01S ~ 9.99Sec. Or Cont.                                                                            |                        |                    |                    |                                                                 |                    |                     |
| 测量                                   |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 电压回读                                 |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 范围                                   | 600V                                                                                                 |                        |                    |                    |                                                                 |                    |                     |
| 分辨率                                  | 0.01V                                                                                                |                        |                    |                    |                                                                 |                    |                     |
| 精度                                   | ±0.05% of (reading + range)                                                                          |                        |                    |                    |                                                                 |                    |                     |
| 参数                                   | Vrms,V Max/Min,+/-Vpk                                                                                |                        |                    |                    |                                                                 |                    |                     |
| 电流回读                                 |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 范围                                   | 9.375Arms/18.75Arms                                                                                  |                        | 14Arms/28Arms      | 18.75Arms/37.5Arms | 28Arms/56Arms                                                   | 37.5Arms/75Arms    | 56.25Arms/112.5Arms |
| 分辨率                                  | 0.2mA/0.4mA                                                                                          |                        | 0.3mA/0.6mA        | 0.4mA/0.8mA        | 0.6mA/1.2mA                                                     | 0.8mA/1.6mA        | 1.2mA/2.4mA         |
| 精度                                   | ±0.05% of ( reading + range ) @ 50/60Hz                                                              |                        |                    |                    | ±0.1% of ( reading + range ) @ 50/60Hz                          |                    |                     |
| 参数                                   | Irms,I Max/Min,+/-Ipk                                                                                |                        |                    |                    | Irms,I Max/Min,+/-Ipk                                           |                    |                     |
| 电度表                                  |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 范围                                   | 1875W                                                                                                |                        | 2800W              | 3750W              | 5600W                                                           | 7500W              | 11250W              |
| 分辨率                                  | 0.03125W                                                                                             |                        | 0.05W              | 0.0625W            | 0.1W                                                            | 0.125W             | 0.1875W             |
| 精度                                   | ±0.1% of ( reading + range)                                                                          |                        |                    |                    | ±0.2% of( reading + range)@50/60Hz , ±0.4% of( reading + range) |                    |                     |
| 伏安计                                  | VrmsxArms Correspond To Vrms and Arms                                                                |                        |                    |                    | VrmsxArms Correspond To Vrms and Arms                           |                    |                     |
| 功率因数计                                |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 范围                                   | +/- 0.000~1.000                                                                                      |                        |                    |                    | +/- 0.000~1.000                                                 |                    |                     |
| 精度                                   | ±(0.002±(0.001/PF)*F)                                                                                |                        |                    |                    | ±(0.002±(0.001/PF)*F)                                           |                    |                     |
| 频率计                                  |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 范围                                   | DC,40~440Hz                                                                                          |                        |                    |                    | DC,40~440Hz                                                     |                    |                     |
| 精度                                   | 0.10%                                                                                                |                        |                    |                    | 0.001                                                           |                    |                     |
| 其它参数计量                               |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
|                                      | VA, VAR, CF_I, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, ITHD, VTHD                                |                        |                    |                    |                                                                 |                    |                     |
| 其它                                   |                                                                                                      |                        |                    |                    |                                                                 |                    |                     |
| 带载开机                                 | Yes , Power on loading during Inverter / UPS start up                                                |                        |                    |                    |                                                                 |                    |                     |
| 抽载与卸除角度控制                            | 0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading                       |                        |                    |                    |                                                                 |                    |                     |
| 半周期和 SCR/TRIAC加载                     | Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed |                        |                    |                    |                                                                 |                    |                     |
| 主/从(3 phase or Parallel application) | Yes, 1 master and upto 7 slave units                                                                 |                        |                    |                    |                                                                 |                    |                     |
| 外部程控输出(选配)                           | F.S / 10Vdc, Resulotion 0.1V                                                                         |                        |                    |                    |                                                                 |                    |                     |
| 外部同步输入                               | TTL                                                                                                  |                        |                    |                    |                                                                 |                    |                     |
| 电压监控(Isolated)                       | ±600V / ±10V                                                                                         |                        |                    |                    |                                                                 |                    |                     |
| 电流监控(Isolated)                       | ±56.25Apk / ±10Vpk                                                                                   | ±84Apk / ±10Vpk        | ±112.5Apk / ±10Vpk | ±168Apk / ±10Vpk   | ±225Apk / ±10Vpk                                                | ±337.5Apk / ±10Vpk |                     |
| 接口(选配)                               | GPIB; RS-232; LAN; USB                                                                               |                        |                    |                    | GPIB; RS-232; LAN; USB                                          |                    |                     |
| 最大功率消耗                               | 150VA                                                                                                |                        |                    | 270VA              | 270VA                                                           | 390VA              |                     |
| 工作温度 °2                              | 0 ~ 40 °C                                                                                            |                        |                    |                    | 0 ~ 40 °C                                                       |                    |                     |
| 输入阻抗电流(mA)<br>@50/60Hz;@400Hz        | ~V*0.3 ; ~V*2.2                                                                                      | ~V*0.45 ; ~V*3.3       | ~V*0.6 ; ~V*4.4    | ~V*0.9 ; ~V*6.6    | ~V*1.2 ; ~V*8.8                                                 | ~V*1.8 ; ~V*13.2   |                     |
| 尺寸( H x W x D )                      | 177 x 440 x 558 mm                                                                                   |                        | 177 x 440 x 558mm  | 177 x 440 x 558 mm | 458 x 480 x 590 mm                                              | 458 x 480 x 590 mm | 636 x 480 x 590 mm  |
| 重量                                   | 21.5Kg                                                                                               |                        | 27.5Kg             | 33.5Kg             | 58 kg                                                           | 70 kg              | 105kg               |

输入电源：115 / 230 Vac ±10%，50/60Hz

冷却方式：智能型风扇冷却

注\*1：ms= milli - siemens = 1/kΩ

注\*2：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C及50/60Hz

注\*3：2倍额定电流和功率的Turbo mode操作模式，主要应用于保险丝(Fuse)、Short / OCP / OPP的测试

| 规格                       |                                                    |                |                              |                              |
|--------------------------|----------------------------------------------------|----------------|------------------------------|------------------------------|
| 型号                       | AEL-5015-425-112.5                                 |                | AEL-5019-425-112.5           | AEL-5023-425-112.5           |
| 功率(W)                    | 15000 W                                            |                | 18750W                       | 22500W                       |
| 电流(Ampere)               | 112.5 Arms / 337.5Apeak                            |                | 112.5 Arms / 337.5Apeak      | 112.5 Arms / 337.5Apeak      |
| 电压(Volt)                 | 50~425Vrms / 600Vdc                                |                |                              |                              |
| 频率范围                     | DC,40~440Hz(CC,CP Mode) , DC~440Hz(LIN,CR,CV Mode) |                |                              |                              |
| 保护功能                     |                                                    |                |                              |                              |
| 过功率保护                    | ≈15750Wrms or Programmable                         |                | ≈19687.5Wrms or Programmable | ≈23625Wrms or Programmable   |
| 过电流保护                    | ≈118.125Arms or Programmable                       |                | ≈118.125Arms or Programmable | ≈118.125Arms or Programmable |
| 过压保护                     | ≈446.25Vrms/630Vdc                                 |                |                              |                              |
| 过温保护                     | Yes                                                |                |                              |                              |
| 工作模式                     |                                                    |                |                              |                              |
| 正弦波定电流模式                 |                                                    |                |                              |                              |
| 范围                       | 0~112.5A                                           |                | 0~112.5A                     | 0~112.5A                     |
| 分辨率                      | 1.875mA/16bits                                     |                | 1.875mA/16bits               | 1.875mA/16bits               |
| 精度                       | ±（0.1% of setting + 0.2% of range）@ 50/60Hz        |                |                              |                              |
| 线性定电流模式为正弦波,方波或准方波,pwm 波 |                                                    |                |                              |                              |
| 范围                       | 0~112.5A                                           |                | 0~112.5A                     | 0~112.5A                     |
| 分辨率                      | 1.875mA/16bits                                     |                | 1.875mA/16bits               | 1.875mA/16bits               |
| 精度                       | ±（0.1% of setting + 0.2% of range）@ 50/60Hz        |                |                              |                              |
| 定电阻模式                    |                                                    |                |                              |                              |
| 范围                       | 0.533Ω~10.666KΩ                                    |                | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              |
| 分辨率                      | 0.031248mS/16bits                                  |                | 0.031248mS/16bits            | 0.031248mS/16bits            |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                 |                |                              |                              |
| 定电压模式                    |                                                    |                |                              |                              |
| 范围                       | 50~425Vrms / 600Vdc                                |                |                              |                              |
| 分辨率                      | 0.1V                                               |                |                              |                              |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                 |                |                              |                              |
| 定功率模式                    |                                                    |                |                              |                              |
| 范围                       | 15000 W                                            |                | 18750W                       | 22500W                       |
| 分辨率                      | 1W                                                 |                | 1W                           | 1W                           |
| 精度                       | ±0.2% of（setting + range）@ 50/60Hz                 |                |                              |                              |
| 峰值因数仅CC&CP               |                                                    |                |                              |                              |
| 范围                       | √2~5                                               |                |                              |                              |
| 分辨率                      | 0.1                                                |                |                              |                              |
| 精度                       | (0.5% / Irms) + 1%F.S.                             |                |                              |                              |
| 功率因数仅CC&CP               |                                                    |                |                              |                              |
| 范围                       | 0~1 Lag or Lead                                    |                |                              |                              |
| 分辨率                      | 0.01                                               |                |                              |                              |
| 精度                       | 1%F.S.                                             |                |                              |                              |
| 测试模式                     |                                                    |                |                              |                              |
| Ups有效测量                  | Non-Linear Mode                                    |                |                              |                              |
| 工作频率                     | Auto ; 40~440Hz                                    |                |                              |                              |
| 电流范围                     | 0~112.5A                                           |                | 0~112.5A                     | 0~112.5A                     |
| 功率因数范围                   | 0~1                                                |                |                              |                              |
| 光伏系统效率测量, 电力调节器80%       | Resistive + Non-Linear Mode                        |                |                              |                              |
| 工作频率                     | Auto ; 40~440Hz                                    |                |                              |                              |
| 电流范围                     | 0~112.5A                                           |                | 0~112.5A                     | 0~112.5A                     |
| 电阻范围                     | 0.533Ω~10.666KΩ                                    |                | 0.533Ω~10.666KΩ              | 0.533Ω~10.666KΩ              |
| Ups 备份功能(CC,LIN,CR,CP)   |                                                    |                |                              |                              |
| 欠压保护                     | 50~425Vrms / 600Vdc                                |                |                              |                              |
| UPS备份时间                  | 1~99999 Sec. (>27H)                                |                |                              |                              |
| 蓄电池放电功能(CC,LIN,CR,CP)    |                                                    |                |                              |                              |
| 欠压保护                     | 50~425Vrms / 600Vdc                                |                |                              |                              |
| 蓄电池放电时间                  | 1~99999 Sec. (>27H)                                |                |                              |                              |
| Ups 传输时间                 |                                                    |                |                              |                              |
| 电流范围                     | 0~112.5A                                           |                | 0~112.5A                     | 0~112.5A                     |
| 欠压保护                     | 2.5V                                               |                |                              |                              |
| 时间范围                     | 0.15mS~999.99mS                                    |                |                              |                              |
| 保险丝测试模式                  |                                                    |                |                              |                              |
| 最大电流                     | Turbo OFF                                          | 112.5Arms      | 112.5Arms                    | 112.5Arms                    |
|                          | Turbo ON                                           | 225Arms(x2) *3 | 225Arms(x2) *3               | 225Arms(x2) *3               |
| Trip & Non-Trip Time     | Turbo OFF                                          | 0.1~9999.9sec. |                              |                              |
|                          | Turbo ON                                           | 0.1~1.0sec.    |                              |                              |
| Meas. Accuracy           | ±0.003 Sec.                                        |                |                              |                              |
| Repeat Cycle             | 0~255                                              |                |                              |                              |

| 规格                                    |                                                                                                      |                        |                     |                     |                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------|------------------------|---------------------|---------------------|--------------------|
| 型号                                    |                                                                                                      | AEL-5015-425-112.5     |                     | AEL-5019-425-112.5  | AEL-5023-425-112.5 |
| 短路/过功率/过流保护测试功能                       |                                                                                                      |                        |                     |                     |                    |
| 短路时间                                  | Turbo OFF                                                                                            | 0.1S ~ 10Sec. Or Cont. |                     |                     |                    |
|                                       | Turbo ON                                                                                             | 0.1S ~ 1Sec            |                     |                     |                    |
| 过功率/过流<br>保护步骤时间                      | Turbo OFF                                                                                            | 100ms                  |                     |                     |                    |
|                                       | Turbo ON                                                                                             | 100ms, up to 10 Steps  |                     |                     |                    |
| 过流保护<br>(停止电流)                        | Turbo OFF                                                                                            | 112.5Arms              | 112.5Arms           | 112.5Arms           |                    |
|                                       | Turbo ON                                                                                             | 225Arms                | 225Arms             | 225Arms             |                    |
| 过功率保护<br>(停止功率)                       | Turbo OFF                                                                                            | 15000W                 | 18750W              | 22500W              |                    |
|                                       | Turbo ON                                                                                             | 30000W                 | 37500W              | 45000W              |                    |
| 可编程序励磁涌流模拟                            |                                                                                                      |                        |                     |                     |                    |
| Istart, Inrush Start Current          | 0~225A                                                                                               |                        | 0~225A              | 0~225A              |                    |
| Inrush Step time                      |                                                                                                      |                        |                     |                     |                    |
| Istop, Inrush stop current            | 0~112.5A                                                                                             |                        | 0~112.5A            | 0~112.5A            |                    |
| 可编程浪涌电流模拟                             |                                                                                                      |                        |                     |                     |                    |
| S1 and S2 Current                     | 0~225A                                                                                               |                        | 0~225A              | 0~225A              |                    |
| T1 and T2 Time                        | 0.01S~0.5Sec.                                                                                        |                        |                     |                     |                    |
| S3 Current                            | 0~112.5A                                                                                             |                        | 0~112.5A            | 0~112.5A            |                    |
| T3 Time                               | 0.01S ~ 9.99Sec. Or Cont.                                                                            |                        |                     |                     |                    |
| 测量                                    |                                                                                                      |                        |                     |                     |                    |
| 电压回读                                  |                                                                                                      |                        |                     |                     |                    |
| 范围                                    | 600V                                                                                                 |                        |                     |                     |                    |
| 分辨率                                   | 0.01V                                                                                                |                        |                     |                     |                    |
| 精度                                    | ±0.05% of (reading + range)                                                                          |                        |                     |                     |                    |
| 参数                                    | Vrms,V Max/Min,+/-Vpk                                                                                |                        |                     |                     |                    |
| 电流回读                                  |                                                                                                      |                        |                     |                     |                    |
| 范围                                    | 56.25Arms/112.5Arms                                                                                  |                        | 56.25Arms/112.5Arms | 56.25Arms/112.5Arms |                    |
| 分辨率                                   | 1.2mA/2.4mA                                                                                          |                        | 1.2mA/2.4mA         | 1.2mA/2.4mA         |                    |
| 精度                                    | ±0.1% of ( reading + range ) @ 50/60Hz                                                               |                        |                     |                     |                    |
| 参数                                    | Irms,I Max/Min,+/-Ipk                                                                                |                        |                     |                     |                    |
| 电度表                                   |                                                                                                      |                        |                     |                     |                    |
| 范围                                    | 15000W                                                                                               |                        | 18750W              | 22500W              |                    |
| 分辨率                                   | 0.25W                                                                                                |                        | 0.3125W             | 0.375W              |                    |
| 精度                                    | ±0.2% of ( reading + range ) @ 50/60Hz , ±0.4% of ( reading + range )                                |                        |                     |                     |                    |
| 伏安计                                   | Vrms×Arms Correspond To Vrms and Arms                                                                |                        |                     |                     |                    |
| 功率因数计                                 |                                                                                                      |                        |                     |                     |                    |
| 范围                                    | +/- 0.000~1.000                                                                                      |                        |                     |                     |                    |
| 精度                                    | ±(0.002±(0.001/PF)*F)                                                                                |                        |                     |                     |                    |
| 频率计                                   |                                                                                                      |                        |                     |                     |                    |
| 范围                                    | DC,40~440Hz                                                                                          |                        |                     |                     |                    |
| 精度                                    | 0.001                                                                                                |                        |                     |                     |                    |
| 其它参数计量                                |                                                                                                      |                        |                     |                     |                    |
|                                       | VA, VAR, CF_L, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, ITHD, VTHD                                |                        |                     |                     |                    |
| 其它                                    |                                                                                                      |                        |                     |                     |                    |
| 带载开机                                  | Yes , Power on loading during Inverter / UPS start up                                                |                        |                     |                     |                    |
| 抽载与卸除角度控制                             | 0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading                       |                        |                     |                     |                    |
| 半周期和 SCR/TRIAC加载                      | Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed |                        |                     |                     |                    |
| 主/从( 3 phase or Parallel application) | Yes, 1 master and upto 7 slave unit                                                                  |                        |                     |                     |                    |
| 外部程控输出(选配)                            | F.S / 10Vdc, Resulotion 0.1V                                                                         |                        |                     |                     |                    |
| 外部同步输入                                | TTL                                                                                                  |                        |                     |                     |                    |
| 电压监控(Isolated)                        | ±600V / ±10V                                                                                         |                        |                     |                     |                    |
| 电流监控(Isolated)                        | ±337.5Apk / ±10Vpk                                                                                   |                        | ±337.5Apk / ±10Vpk  | ±337.5Apk / ±10Vpk  |                    |
| 接口(选配)                                | GPIB ; RS-232 ; LAN ; USB                                                                            |                        |                     |                     |                    |
| 最大功率消耗                                | 510VA                                                                                                |                        | 630VA               | 750VA               |                    |
| 工作温度 °2                               | 0 ~ 40 °C                                                                                            |                        |                     |                     |                    |
| 输入阻抗电流(mA)<br>@50/60Hz;@400Hz         | ~V*2.4 ; ~V*17.6                                                                                     |                        | ~V*3.0 ; ~V*22      | ~V*3.6 ; ~V*26.4    |                    |
| 尺寸( H x W x D )                       | 814 x 480 x 590 mm                                                                                   |                        | 1283 x 600 x 600 mm | 1283 x 600 x 600 mm |                    |
| 重量                                    | 140kg                                                                                                |                        | 260kg               | 295kg               |                    |

输入电源：115 / 230 Vac ±10%，50/60Hz

冷却方式：智能型风扇冷却

注\*1：ms= milli - siemens = 1/kΩ

注\*2：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C及50/60Hz

注\*3：2倍额定电流和功率的Turbo mode操作模式，主要应用于保险丝(Fuse)、Short / OCP / OPP的测试

| 订购信息                                     |                                                 |          |                                      |
|------------------------------------------|-------------------------------------------------|----------|--------------------------------------|
| AEL-5002-350-18.75                       | 350V/18.75A/1875W                               | 交/直流电子负载 |                                      |
| AEL-5003-350-28                          | 350V/28A/2800W                                  | 交/直流电子负载 |                                      |
| AEL-5004-350-37.5                        | 350V/37.5A/3750W                                | 交/直流电子负载 |                                      |
| AEL-5006-350-56                          | 350V/56A/5600W                                  | 交/直流电子负载 |                                      |
| AEL-5008-350-75                          | 350V/75A/7500W                                  | 交/直流电子负载 |                                      |
| AEL-5012-350-112.5                       | 350V/112.5A/11250W                              | 交/直流电子负载 |                                      |
| AEL-5015-350-112.5                       | 350V/112.5A/15000W                              | 交/直流电子负载 |                                      |
| AEL-5019-350-112.5                       | 350V/112.5A/18750W                              | 交/直流电子负载 |                                      |
| AEL-5023-350-112.5                       | 350V/112.5A/22500W                              | 交/直流电子负载 |                                      |
| AEL-5002-425-18.75                       | 425V/18.75A/1875W                               | 交/直流电子负载 |                                      |
| AEL-5003-425-28                          | 425V/28A/2800W                                  | 交/直流电子负载 |                                      |
| AEL-5004-425-37.5                        | 425V/37.5A/3750W                                | 交/直流电子负载 |                                      |
| AEL-5006-425-56                          | 425V/56A/5600W                                  | 交/直流电子负载 |                                      |
| AEL-5008-425-75                          | 425V/75A/7500W                                  | 交/直流电子负载 |                                      |
| AEL-5012-425-112.5                       | 425V/112.5A/11250W                              | 交/直流电子负载 |                                      |
| AEL-5015-425-112.5                       | 425V/112.5A/15000W                              | 交/直流电子负载 |                                      |
| AEL-5019-425-112.5                       | 425V/112.5A/18750W                              | 交/直流电子负载 |                                      |
| AEL-5023-425-112.5                       | 425V/112.5A/22500W                              | 交/直流电子负载 |                                      |
| AEL-5003-480-18.75                       | 480V/18.75A/2800W                               | 交/直流电子负载 |                                      |
| AEL-5004-480-28                          | 480V/28A/3750W                                  | 交/直流电子负载 |                                      |
| 附件                                       |                                                 |          |                                      |
| 操作手册 × 1本                                |                                                 |          |                                      |
| 圆型端子RVL1-4 × 2 PCs                       |                                                 |          |                                      |
| 圆型端子RNYBS8-4 × 2 PCs                     |                                                 |          |                                      |
| 端子 PTV1-12 × 6 PCs                       |                                                 |          |                                      |
| HD-DSUB 15pin MALE to MALE 150cm × 1 PCs |                                                 |          |                                      |
| 选购配件                                     |                                                 |          |                                      |
| PEL-022                                  | GPIB                                            | GTL-238  | RS-232C Cable, 9 pin,M-F Type,1000mm |
| PEL-023                                  | RS-232C                                         | GTL-246  | USB Cable,1.2m                       |
| PEL-024                                  | LAN                                             | GTL-248  | GPIB Cable,2m                        |
| PEL-025                                  | USB                                             | GTL-250  | GPIB Cable,0.6m                      |
| PEL-028                                  | 不锈钢U型把手(固定在拖架) 注：仅限下列机型 AEL-5006/5008/5012/5015 |          |                                      |
| PEL-029                                  | 机架配件(压铸把手)注：仅限下列机型 AEL-5002/5003/5004           |          |                                      |
| PEL-030                                  | GPIB+RS232适配卡                                   |          |                                      |

技术规格变动恕不另行通知 AEL-5000CD1BH



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