

# EAC 系列

## 可编程单／三相交流电源

EAC 系列单机即可提供单相，三相及直流输出功能，可仿真各种电力系统环境，搭载新技术 Ext Trigger 同步波形便于分析。EAC 摆脱了传统单一电源模式，全面满足实验室及研发品质验证单位的各种需求。



### 产品特点

- 可编程 1 $\phi$ /3 $\phi$ / 直流输出，无需外挂机台。
- 可设定交流电起始与结束角度，便于模拟各种环境。
- 内建功率因数改善设计可达 PF>0.97，节省能源。
- 可承受四倍涌浪电流，适合各种电感性负载测试。
- 可模拟瞬态突波 (Transient) 电压输入。
- 同步讯号输出 (ON/OFF/EVENT/Ext Trigger) 功能，方便客户监测、利用或分析电源状态。

### 安全特性



过电流保护



过电压保护



过功率保护



过温度保护



短路线路



逆灌电流保护

### 产品特点

**OCF**

过载电压  
恒定输出



持续输出模式



角度设定



远端线压  
降补偿

### 通讯介面



USB 介面



RS-232 介面



以太网网卡  
(选购)



GPIB 卡  
(选购)

|         | 交流输出 | 直流输出 | 可编程 | 单相输入 | 三相输入 | 输入功率因数改善线路 | 单相输出 | 单相三线输出 | 三相输出 | 600V 输出     |
|---------|------|------|-----|------|------|------------|------|--------|------|-------------|
| EAC-303 | √    | √    | √   | √    | -    | √          | √    | √      | √    | 1 $\phi$ 3W |
| EAC-306 | √    | √    | √   | √    | √    | √          | √    | √      | √    | 1 $\phi$ 3W |

| EAC 系列规格                   |          |          |                                                                |  |         |
|----------------------------|----------|----------|----------------------------------------------------------------|--|---------|
| 型号                         |          |          | EAC-303                                                        |  | EAC-306 |
| 交流输出                       |          |          |                                                                |  |         |
| 相位                         |          |          | 1Ø, 3Ø                                                         |  |         |
| 功率                         | 1Ø2W     |          | 3kVA                                                           |  | 6kVA    |
|                            | 1Ø3W     |          | 2kVA                                                           |  | 4kVA    |
|                            | 3Ø4W     |          | 3kVA                                                           |  | 6kVA    |
| 电压                         | 范围       | 1Ø2W     | 0.0 - 300Vac, 150/300V Auto Range                              |  |         |
|                            |          | 1Ø3W     | 0.0 - 300V (phase), 0.0 - 600V (line), 150/300V Auto Range     |  |         |
|                            |          | 3Ø4W     | 0.0 - 300V (phase), 0.0 - 520V (line), 150/300V Auto Range     |  |         |
|                            | 解析度      |          | 0.1V                                                           |  |         |
|                            | 精确度      |          | ±(0.2% of setting + 3 counts)                                  |  |         |
| 最大电流<br>(有效值) <sup>1</sup> | 1Ø2W     | 0 - 150V | 27.6A                                                          |  | 55.2A   |
|                            |          | 0 - 300V | 13.8A                                                          |  | 27.6A   |
|                            | 1Ø3W     | 0 - 150V | 9.2A                                                           |  | 18.4A   |
|                            |          | 0 - 300V | 4.6A                                                           |  | 9.2A    |
|                            | 3Ø4W     | 0 - 150V | 9.2A                                                           |  | 18.4A   |
|                            |          | 0 - 300V | 4.6A                                                           |  | 9.2A    |
| 频率                         | 范围       |          | 40 - 1kHz Full Range Adjust                                    |  |         |
|                            | 解析度      |          | 0.1Hz at 40.0 - 99.9Hz , 1Hz at 100 – 1kHz                     |  |         |
|                            | 精确度      |          | ± 0.03% of setting                                             |  |         |
| 总谐波失真 (THD)                |          |          | <0.3% at 110/220V & 50/60Hz (Resistive Load)                   |  |         |
| 浪涌电流                       |          |          | 4 times rated Current (r.m.s)                                  |  |         |
| 波峰因素                       |          |          | 3 times rated Current (r.m.s)                                  |  |         |
| 电源稳定率                      |          |          | ± 0.1V                                                         |  |         |
| 负载调整率                      |          |          | ±(1% of output + 1V) at Resistive Load , < 400µs response time |  |         |
| 直流输出                       |          |          |                                                                |  |         |
| 功率                         |          |          | 3kW                                                            |  | 6kW     |
| 电压                         | 范围       |          | 0 - 210V/0 - 420V Selectable                                   |  |         |
|                            | 解析度      |          | 0.1V                                                           |  |         |
|                            | 精确度      |          | ±(0.2% of setting + 3 counts)                                  |  |         |
| 最大电流<br>(有效值)              | 0 - 210V |          | 14.4A                                                          |  | 28.8A   |
|                            | 0 - 420V |          | 7.2A                                                           |  | 14.4A   |
| 连波和杂讯<br>(有效值)             | 范围       | L        | < 700mV                                                        |  |         |
|                            |          | H        | < 1100mV                                                       |  |         |
| 连波和杂讯 (p-p)                |          |          | < 4.0Vp-p                                                      |  |         |
| 电源稳定率                      |          |          | ± 0.1V                                                         |  |         |
| 负载调整率                      |          |          | ±(1% of output + 1V) at Resistive Load , < 400µs response time |  |         |



| 型号               |                         |      |                             | EAC-303                                                                                                              |           | EAC-306                                                                           |           |
|------------------|-------------------------|------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------|
| 输入电源             |                         |      |                             |                                                                                                                      |           |                                                                                   |           |
| 相位               |                         |      |                             | 1Ø                                                                                                                   |           | 1Ø or 3Ø                                                                          |           |
| 电压               |                         |      |                             | 200 - 240Vac ± 10%                                                                                                   |           | 1Ø : 200 - 240Vac ± 10%<br>3Ø3W : 200 - 240Vac ± 10%<br>3Ø4W : 346 - 416Vac ± 10% |           |
| 最大电流             |                         |      |                             | 23A                                                                                                                  |           | 1Ø : 45A<br>3Ø3W : 26A<br>3Ø4W : 15A                                              |           |
| 频率               |                         |      |                             | 47 - 63Hz                                                                                                            |           |                                                                                   |           |
| 功率因素             |                         |      |                             | 0.97                                                                                                                 |           |                                                                                   |           |
| 量测               |                         |      |                             |                                                                                                                      |           |                                                                                   |           |
| 电压               | 范围                      |      |                             | 0.0 - 420.0V                                                                                                         |           |                                                                                   |           |
|                  | 解析度                     |      |                             | 0.1V                                                                                                                 |           |                                                                                   |           |
|                  | 精确度 ( 交流 ) <sup>2</sup> |      |                             | ±(0.2% of reading + 3 counts)                                                                                        |           |                                                                                   |           |
|                  | 精确度 ( 直流 ) <sup>2</sup> |      |                             | ±(0.2% of reading + 5 counts)                                                                                        |           |                                                                                   |           |
| 电流               | 范围                      | 1Ø2W |                             | 0.05 - 39.00A                                                                                                        |           | 0.05 - 78.00A                                                                     |           |
|                  |                         | 1Ø3W | L                           | 0.005 - 1.200A                                                                                                       |           | 0.005 - 2.400A                                                                    |           |
|                  |                         |      | H                           | 1.00 - 13.00A                                                                                                        |           | 2.00 - 26.00A                                                                     |           |
|                  |                         | 3Ø4W | L                           | 0.005 - 1.200A                                                                                                       |           | 0.005 - 2.400A                                                                    |           |
|                  |                         |      | H                           | 1.00 - 13.00A                                                                                                        |           | 2.00 - 26.00A                                                                     |           |
|                  | 解析度 <sup>3</sup>        |      | L                           | 0.001A                                                                                                               |           |                                                                                   |           |
|                  |                         |      | H                           | 0.01A                                                                                                                |           |                                                                                   |           |
|                  | 精确度 <sup>4</sup>        |      |                             | ±(1% of reading + 5 counts)                                                                                          |           |                                                                                   |           |
| 电流 ( 直流 )        | 范围                      |      |                             | 0.05 - 19.50A                                                                                                        |           | 0.05 - 39.00A                                                                     |           |
|                  | 解析度                     |      |                             | 0.01A                                                                                                                |           |                                                                                   |           |
|                  | 精确度 <sup>2</sup>        |      |                             | ±(1% of reading + 5 counts)                                                                                          |           |                                                                                   |           |
| 频率               | 范围                      |      |                             | 0.0 – 1kHz                                                                                                           |           |                                                                                   |           |
|                  | 解析度                     |      |                             | 0.1Hz                                                                                                                |           |                                                                                   |           |
|                  | 精确度                     |      |                             | ± 0.1Hz (501 - 1kHz, Accuracy ±0.2Hz)                                                                                |           |                                                                                   |           |
| 功率 ( 交流 )        | 范围                      | 1Ø2W |                             | 0 – 3900W                                                                                                            |           | 0 - 7800W                                                                         |           |
|                  |                         | 1Ø3W | L                           | 0.0 - 120.0W                                                                                                         |           | 0.0 - 240.0W                                                                      |           |
|                  |                         |      | H                           | 100 – 1300W                                                                                                          |           | 200 – 2600W                                                                       |           |
|                  |                         | 3Ø4W | L                           | 0.0 - 120.0W                                                                                                         |           | 0.0 - 240.0W                                                                      |           |
|                  |                         |      | H                           | 100 - 1300W                                                                                                          |           | 200 – 2600W                                                                       |           |
|                  | 解析度 <sup>3</sup>        |      | L                           | 0.1W                                                                                                                 |           |                                                                                   |           |
|                  |                         |      | H                           | 1W                                                                                                                   |           |                                                                                   |           |
|                  | 精确度 <sup>2</sup>        | 1Ø2W |                             | ±(2% of reading + 5 counts) at 40.0 - 500Hz and PF ≥ 0.2<br>±(2% of reading + 15 counts) at 501 - 1kHz and PF ≥ 0.5  |           |                                                                                   |           |
|                  |                         | 1Ø3W | L                           | ±(2% of reading + 15 counts) at 40.0 - 500Hz and PF ≥ 0.2<br>±(2% of reading + 30 counts) at 501 - 1kHz and PF ≥ 0.5 |           |                                                                                   |           |
|                  |                         |      | H                           | ±(2% of reading + 5 counts) at 40.0 - 500Hz and PF ≥ 0.2<br>±(2% of reading + 15 counts) at 501 - 1kHz and PF ≥ 0.5  |           |                                                                                   |           |
|                  |                         | 3Ø4W | L                           | ±(2% of reading + 15 counts) at 40.0 - 500Hz and PF ≥ 0.2<br>±(2% of reading + 30 counts) at 501 - 1kHz and PF ≥ 0.5 |           |                                                                                   |           |
|                  |                         |      | H                           | ±(2% of reading + 5 counts) at 40.0 - 500Hz and PF ≥ 0.2<br>±(2% of reading + 15 counts) at 501 - 1kHz and PF ≥ 0.5  |           |                                                                                   |           |
|                  | 功率 ( 直流 )               | 范围   |                             |                                                                                                                      | 0 - 3.9kW |                                                                                   | 0 - 7.8kW |
| 解析度              |                         |      | 1W                          |                                                                                                                      |           |                                                                                   |           |
| 精确度 <sup>2</sup> |                         |      | ±(2% of reading + 5 counts) |                                                                                                                      |           |                                                                                   |           |

| 型号                                             | EAC-303                                                                                                                                                             | EAC-306 |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 一般规格                                           |                                                                                                                                                                     |         |
| 暂态 (40 - 70Hz)                                 | Trans-Volt 0.0 - 300.0V, Resolution 0.1V<br>Trans-Site 0° - 359°, Resolution 1°<br>Trans-Time 0.5 - 999.9ms, Resolution 0.1ms<br>Trans-Cycle 0 - 9999, 0 = Constant |         |
| 远端控制输入介面                                       | Test, Reset, Interlock, Recall program memory 1 through 7                                                                                                           |         |
| 远端控制输出讯号                                       | Pass, Fail, Test-in Process                                                                                                                                         |         |
| 输入端形式                                          | Terminal                                                                                                                                                            |         |
| 记忆组                                            | 50 memories, 9 steps/memory                                                                                                                                         |         |
| 同步输出讯号                                         | ON/OFF/EVENT/Ext Trigger in the Program mode, Output Signal 5V, BNC type, Between the sync signal and the output voltage will be 0.5ms time difference              |         |
| 显示器                                            | 240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1 - 9                                                                                                     |         |
| 效率                                             | ≥ 78% (at Full Load)                                                                                                                                                |         |
| 保护功能                                           | OCP, OVP, OPP, OTP, LVP, Short Circuit, Reverse Current ; Alarm and shutdown                                                                                        |         |
| 介面 <sup>5</sup>                                | Standard USB & RS232, Optional GPIB, Ethernet                                                                                                                       |         |
| 操作温度 / 储存温度 / 湿度                               | 0 to 40°C/-40 to 75°C/20 to 80%RH                                                                                                                                   |         |
| 尺寸 (宽 x 高 x 深), mm <sup>6</sup>                | 430 x 400 (487) x 500 (560)                                                                                                                                         |         |
| 重量                                             | 48kg                                                                                                                                                                | 57kg    |
| 标准配件                                           |                                                                                                                                                                     |         |
| 1224 USB Cable*1; 1505 Interlock Disable Key*1 |                                                                                                                                                                     |         |

产品规格如有变更恕不另行通知

1. Maximum current when output voltage at 110V/220V.

2. At Voltage > 5V.

3. a. When output frequency ≥ 100Hz & ≤500Hz & N-G short, the current meter guarantee minimum current from 0.01A.  
b. When output frequency ≥ 500Hz & N-G short, the current meter guarantee minimum current from 0.02A.  
c. When output frequency ≥ 100Hz & ≤500Hz & N-G short, the current meter guarantee minimum current from 0.02A at 600V models.  
d. When output frequency ≥ 500Hz & N-G short, the current meter guarantee minimum current from 0.03A at 600V models.

4. At CF < 1.5, Current (peak) ≤ 75%, Voltage > 5V.

5. Only one interface can be selected among RS232 & USB, GPIB & Ethernet interface card.

6. Figure in parentheses are maximum values with fixture stand.

产品型号

- EAC-303 Programmable AC Power Source 0 - 300V/  
40 - 1kHz (3kVA)

EAC-306 Programmable AC Power Source 0 -  
300V/40 - 1kHz (6kVA)

选购功能

- OPT.109 Replace RS232 Interface by GPIB Interface