

## 可程控直流电源供应器



## 可程控直流电源供应器 MODEL 62000P 系列 PROGRAMMABLE DC POWER SUPPLY

Chroma 62000P 系列可程式控制直流电流供应器，提供许多独特功能供ATE整合与测试使用。这些功能包括定功率操作范围、精准的输出电流和电压量测、提供输出触发信号，以及可类比复杂的DC暂态波形以便测试产品的瞬断、上升与其他电压间偏差的能力。62000P是高准确度可程式控制直流电源供应器的新标准，专门设计於自动化测试D2D转换器和其他类似产品使用。

62000P系列同时具备16 bit高解析度的准确电压和电流读值回读功能，这表示系统不再需要额外复杂的分流器/电压表，就能测量准确的待测物输入参数读值。62000P 电源供应器也具有 I/O介面可提供 8 bit TTLs、DC-ON、保护输出信号、远端抑制保护功能以及系统时序量测的输出触发信号。

62000P系列电源供应器另一个独特的功能为可编辑复杂的 DC 暂态波形。此功能可对设备进行输入电压漏失瞬断和其他电压变化等测试，是用於飞机设备测试、反用换流器测试和其他会产生电压中断之设备测试的理想选择。其应用的范围包括 DC/DC 转换器和逆变器的压降测试、引擎启动类比、电池自动充电、电子产品寿命测试等等。

62000P系列包含12个不同的机型，从600W 到5000W 以及0-120A到0-600V。由於单一仪器可提供的定功率操作范围包含高电压/低电流和低电压/高电流，因此可减少一般ATE应用所需的直流电源供应器数量。

### MODEL 62000P 系列

#### 特点：

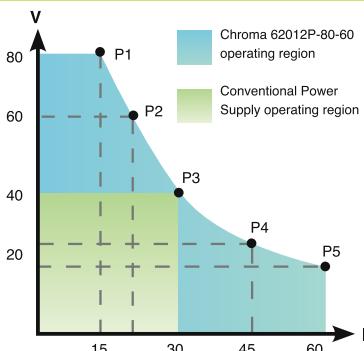
- 定功率操作下允许多种电压和电流组合输出
- 电压输出范围：0 ~ 600V；  
电流输出范围：0 ~ 120A；  
功率输出范围：600W, 1200W, 2400W, 5000W
- 数位旋钮、按键及功能按钮操作
- 高功率因素到 0.95
- 高速可程式控制介面
- 精准的电压及电流量测
- 具有主/从控制介面于并联操作模式下达到均流
- 电压渐升/降功能:时间(10ms~99hours)
- 具有 10 组程式及 100 个步骤设定电压/电流 / 8 bit TTL 讯号输出
- 电压及电流斜率控制
- 过电压、限电流及过温度保护功能
- 电压补偿可达5V
- APG (Analog Programmable Interface) 类比讯号控制介面
- 可选购 GPIB 或乙太网路控制介面
- 标准的 RS-232 & USB 控制介面
- LabView 及 Labwindows 控制驱动程式
- 具有 CE 认证



**Chroma**

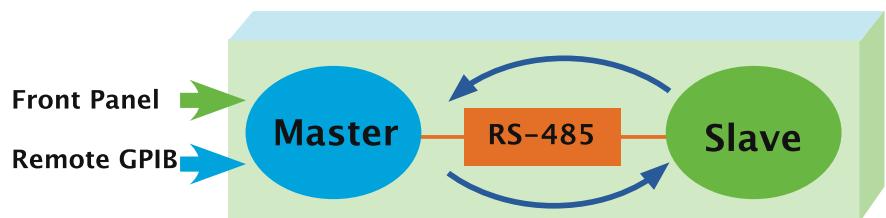
## 定功率范围内提供宽广操作

62000P系列直流电源供应器提供宽广的操作范围。例如，62012P-80-60的输出规格为1200W/80V/60A可於不同的组合中灵活操作如图右侧所示。如普通的直流电源供应器显示提供所有的输出电压相同的额定电流，而62000P於低输出电压时提供较大的电流。这表示低电压/高电流及高电压/低电流两者的待测物可使用单台直流电源供应器测试输入稳定性，於一般的ATE系统内部避免多台直流电源供应器以节省成本与空间。



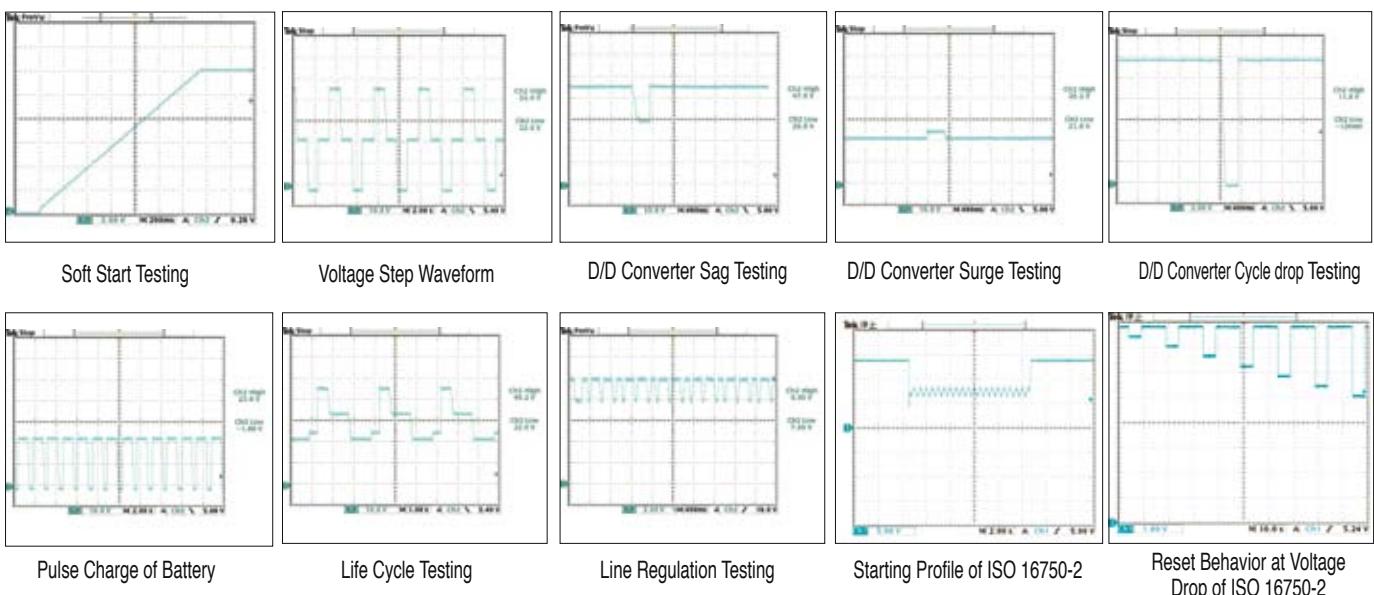
## 主/从并联&串联控制

当需要高功率时，一般以并联或串联连接两台或多台直流电源供应器。62000P系列直流电源供应器具有智慧型主/从式控制模式使串联/并联能快速并简单操作。於此模式中，主机测量数值并可下传资料至从属仪器，因此，可简易编程并自动均流。

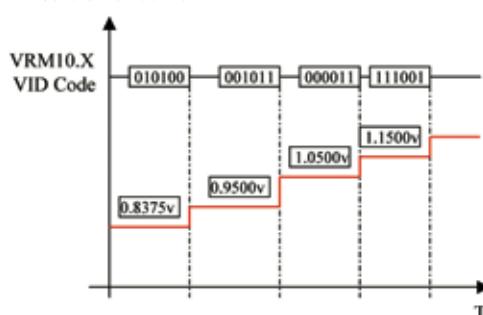


## 编程序列功能及应用

62000P系列直流电源供应器提供100个步阶，使用者可程式控制序列具有时间设定值，范围为5ms~15000s，电压及电流斜率控制与自动化测试应用的8bit TTL讯号输出。其应用的范围包括DC/DC转换器和逆变器的压降测试、引擎启动类比、电池自动充电、产品寿命周期测试及飞机航空测试等等。



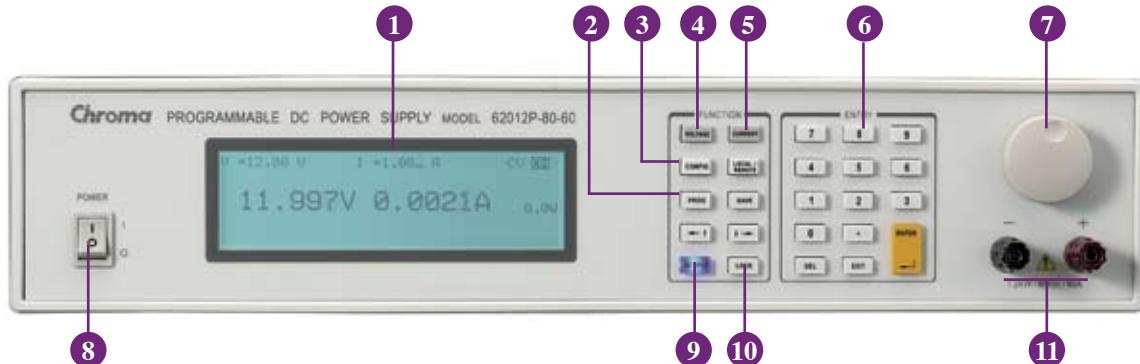
VID code Simulation for VRM/VRD



62000P供应器提供8个时序控制输出TTL位元。这些控制线可使用於VRM的VID控制或控制其他个别的信号。

## 面板说明

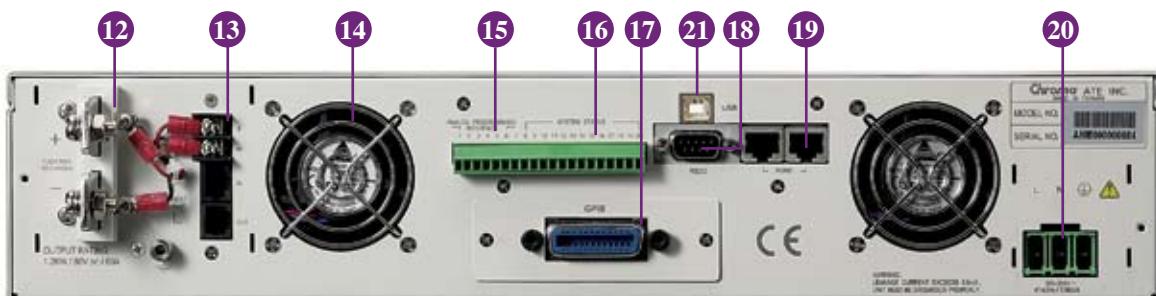
## Model : 62012P-80-60



- 1. LCD 显示幕** 显示设定, 量测及操作状态  
**2. PROG 功能键** 程式步阶电压及电流设定选择  
**3. CONFIG功能键** 系统内部参数设定  
**4. 电压设定键** 设定输出电压值  
**5. 电流设定键** 设定输出限电流值  
**6. 数位键** 数位输入  
**7. 旋钮** 旋钮调整设定  
**8. AC电源开关** 开关机控制  
**9. 输出ON/OFF控制键** 输出启动及停止控制  
**10. 安全锁键** 安全锁启动及停止控制  
**11. 前面板直流输出端子** 输出连接端子至负载

附注: 40V, 300V及600V机种无前面板输出端子

## Model : 62012P-80-60



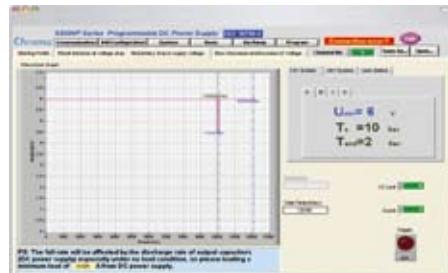
- 12. 後背板直流输出端子** 输出连接端子至负载  
**13. 远端回馈端子** 远端回馈连接端子至负载  
**14. 系统散热风扇**  
**15. 类比控制介面** 类比输入/出控制&检测电压及电流  
**16. 系统输入/出埠** 系统输入/出讯号, 如 8 bit TTL, DC-ON, 错误讯号输出及控制ON/OFF  
**17. GPIB介面(选配)** GPIB & Ethernet (二选一)  
**18. RS-232介面**  
**19. RS-485介面** 主从串/并联用数位讯号沟通介面  
**20. AC输入端子**  
**21. USB介面**

## 规格表-1

| Model                                      | 62006P-30-80                | 62006P-100-25                                | 62006P-300-8                    | 62012P-40-120                   | 62012P-80-60                    | 62012P-100-50                   |
|--|-----------------------------|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <b>Output Ratings</b>                      |                             |  |                                 |                                 |                                 |                                 |
| Output Voltage                             | 0~30V                       | 0~100V                                       | 0~300V                          | 0~40V                           | 0~80V                           | 0~100V                          |
| Output Current                             | 0~80A                       | 0~25A  | 0~8A                            | 0~120A                          | 0~60A                           | 0~50A                           |
| Output Power                               | 600W                        | 600W   | 600W                            | 1200W                           | 1200W                           | 1200W                           |
| <b>Line Regulation</b>                     |                             |  |                                 |                                 |                                 |                                 |
| Voltage                                    | 0.01%+2mV                   | 0.01%+6mV                                    | 0.01%+18mV                      | 0.01%+2mV                       | 0.01%+8mV                       | 0.01%+10mV                      |
| Current                                    | 0.01%+25mA                  | 0.01%+5mA                                    | 0.03%+20mA                      | 0.01%+25mA                      | 0.01%+10mA                      | 0.01%+12mA                      |
| <b>Load Regulation</b>                     |                             |  |                                 |                                 |                                 |                                 |
| Voltage                                    | 0.01%+3mV                   | 0.01%+10mV                                   | 0.01%+50mV                      | 0.01%+3mV                       | 0.01%+12mV                      | 0.01%+18mV                      |
| Current                                    | 0.01%+10mA                  | 0.01%+5mA                                    | 0.03%+40mA                      | 0.01%+10mA                      | 0.01%+20mA                      | 0.01%+28mA                      |
| <b>Voltage Measurement</b>                 |                             |  |                                 |                                 |                                 |                                 |
| Range                                      | 6V/30V                      | 20V/100V                                     | 60V/300V                        | 8V/40V                          | 16V/80V                         | 20V/100V                        |
| Accuracy                                   | 0.05% + 0.05%F.S.           | 0.05% + 0.05%F.S.                            | 0.05% + 0.05%F.S.               | 0.05% + 0.05%F.S.               | 0.05% + 0.05%F.S.               | 0.05% + 0.05%F.S.               |
| <b>Current Measurement</b>                 |                             |  |                                 |                                 |                                 |                                 |
| Range                                      | 16A/80A                     | 5A/25A                                       | 1.6A/8A                         | 24A / 120A                      | 12A/60A                         | 10A/50A                         |
| Accuracy                                   | 0.1% + 0.2%F.S.             | 0.1% + 0.2%F.S.                              | 0.1% + 0.1%F.S.                 | 0.1% + 0.1%F.S..                | 0.1% + 0.1%F.S.                 | 0.1% + 0.1%F.S.                 |
| <b>Output Noise (0 ~ 20MHz)</b>            |                             |  |                                 |                                 |                                 |                                 |
| Voltage Ripple (P-P)                       | 60 mV                       | 85 mV  | 180 mV                          | 90 mV                           | 100 mV                          | 100 mV                          |
| Voltage Ripple (rms)                       | 8 mV                        | 10 mV  | 90 mV                           | 10 mV                           | 10 mV                           | 15 mV                           |
| Current Ripple (rms)                       | 60 mA                       | 10 mA  | 60 mA                           | 120 mA                          | 30 mA                           | 20 mA                           |
| <b>OVP Adjustment Range</b>                |                             | 110% of Vset to<br>110% of Vmax              | 110% of Vset to<br>110% of Vmax | 110% of Vset to<br>110% of Vmax | 110% of Vset to<br>110% of Vmax | 110% of Vset<br>to 110% of Vmax |
| <b>Slew Rate Range</b>                     |                             |  |                                 |                                 |                                 |                                 |
| Voltage (with USB)                         | 0.001V - 5V/ms              | 0.001V - 10V/ms                              | 0.01V - 10V/ms                  | 0.001V - 5V/ms                  | 0.001V - 10V/ms                 | 0.001V - 10V/ms                 |
| Current (with USB)                         | 0.001A - 1A/ms              | 0.001A - 1A/ms                               | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  |
| <b>Programming Response Time (Typical)</b> |                             |  |                                 |                                 |                                 |                                 |
| Rise Time (Full & No Load)                 | 6 ms                        | 10 ms  | 30 ms                           | 8 ms                            | 8 ms                            | 10 ms                           |
| Fall Time                                  | 350ms(max)                  | 300 ms(max)                                  | 2.5 s(max)                      | 460 ms(max)                     | 240 ms(max)                     | 300 ms(max)                     |
| <b>Efficiency</b>                          | 0.75                        | 0.75   | 0.75                            | 0.8                             | 0.8                             | 0.8                             |
| <b>Drift (8 hours)</b>                     |                             |  |                                 |                                 |                                 |                                 |
| Voltage                                    | 0.02% of Vmax               | 0.02% of Vmax                                | 0.02% of Vmax                   | 0.02% of Vmax                   | 0.02% of Vmax                   | 0.02% of Vmax                   |
| Current                                    | 0.04% of Imax               | 0.04% of Imax                                | 0.04% of Imax                   | 0.04% of Imax                   | 0.04% of Imax                   | 0.04% of Imax                   |
| <b>Temperature Coefficient</b>             |                             |  |                                 |                                 |                                 |                                 |
| Voltage                                    | 0.02% of Vmax/ $^{\circ}$ C | 0.02% of Vmax/ $^{\circ}$ C                  | 0.02% of Vmax/ $^{\circ}$ C     | 0.02% of Vmax/ $^{\circ}$ C     | 0.02% of Vmax/ $^{\circ}$ C     | 0.02% of Vmax/ $^{\circ}$ C     |
| Current                                    | 0.04% of Imax/ $^{\circ}$ C | 0.04% of Imax/ $^{\circ}$ C                  | 0.04% of Imax/ $^{\circ}$ C     | 0.04% of Imax/ $^{\circ}$ C     | 0.04% of Imax/ $^{\circ}$ C     | 0.04% of Imax/ $^{\circ}$ C     |
| <b>Transient Response Time</b>             |                             | 3 mS   | 3 mS                            | 3mS                             | 3mS                             | 3 mS                            |
| 10 % step change                           | 150 mV                      | 180 mV                                       | 600 mV                          | 150 mV                          | 250 mV                          | 250 mV                          |
| Voltage limit @ Series Mode                | 150V                        | 500V   | 800V                            | 200V                            | 400V                            | 500V                            |
| <b>AC Input Voltage Ranges</b>             |                             | 95 to 250Vac                                 | 95 to 250Vac                    | 95 to 250Vac                    | 95 to 250Vac                    | 95 to 250Vac                    |
| <b>Operating Temperature</b>               | 0~40 $^{\circ}$ C           | 0~40 $^{\circ}$ C                            | 0~40 $^{\circ}$ C               | 0~40 $^{\circ}$ C               | 0~40 $^{\circ}$ C               | 0~40 $^{\circ}$ C               |
| <b>Dimension (H x W x D)</b>               |                             | 89 x 430 x 425 mm / 3.5 x 16.93 x 16.73 inch |                                 |                                 |                                 |                                 |
| Weight                                     | 12kg / 26.43 lbs            | 12.1 kg / 26.65 lbs                          | 11.2 kg / 24.67 lbs             | 12kg / 26.43 lbs                | 13 kg / 28.63 lbs               | 12.1 kg / 26.65 lbs             |

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

## 图形化操作界面



ISO 16750-2 4.5.1 电压瞬间中断试验曲线



ISO 16750-2 4.5.3 启动电压试验曲线



62050P-100-100

## 规格表-2

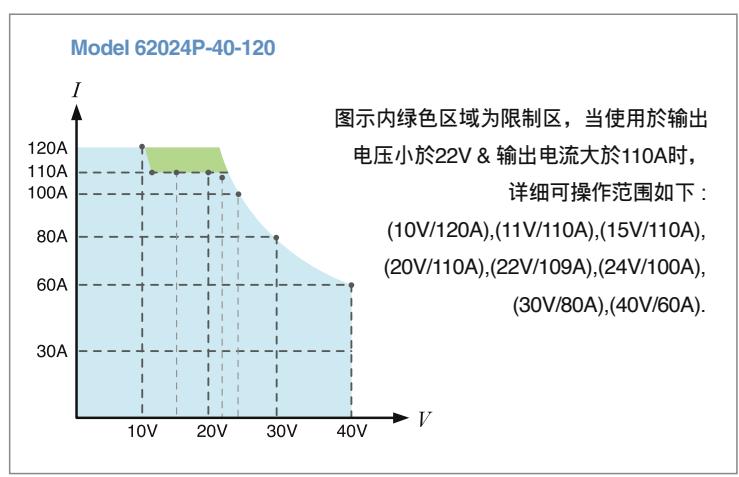
| Model                                      | 62012P-600-8                                 | 62024P-40-120                   | 62024P-80-60                    | 62024P-100-50                   | 62024P-600-8                    | 62050P-100-100   |
|--|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|
| <b>Output Ratings</b>                      |  |                                 |                                 |                                 |                                 |  |
| Output Voltage                             | 0~600V                                       | 0~40V                           | 0~80V                           | 0~100V                          | 0~600V                          | 0~100V   |
| Output Current                             | 0~8A   | 0~120A*1                        | 0~60A                           | 0~50A                           | 0~8A                            | 0~100A   |
| Output Power                               | 1200W  | 1200~2400W*1                    | 2400W                           | 2400W                           | 2400W                           | 5000W  |
| <b>Line Regulation</b>                     |  |                                 |                                 |                                 |                                 |  |
| Voltage                                    | 0.01%+18mV                                   | 0.01%+2mV                       | 0.01%+8mV                       | 0.01%+10mV                      | 0.01%+18mV                      | 0.01%+8mV  |
| Current                                    | 0.03%+20mA                                   | 0.01%+25mA                      | 0.01%+10mA                      | 0.01%+12mA                      | 0.03%+20mA                      | 0.01%+24mA   |
| <b>Load Regulation</b>                     |  |                                 |                                 |                                 |                                 |  |
| Voltage                                    | 0.01%+50mV                                   | 0.01%+3mV                       | 0.01%+12mV                      | 0.01%+18mV                      | 0.01%+50mV                      | 0.01%+12mV   |
| Current                                    | 0.03%+40mA                                   | 0.01%+10mA                      | 0.01%+20mA                      | 0.01%+28mA                      | 0.03%+40mA                      | 0.01%+56mA   |
| <b>Voltage Measurement</b>                 |  |                                 |                                 |                                 |                                 |  |
| Range                                      | 120V/600V                                    | 8V / 40V                        | 16V/80V                         | 20V/100V                        | 120V / 600V                     | 20V/100V   |
| Accuracy                                   | 0.05%+0.05%F.S.                              | 0.05%+0.05%F.S.                 | 0.05%+0.05%F.S.                 | 0.05%+0.05%F.S.                 | 0.05%+0.05%F.S.                 | 0.05%+0.05%F.S.  |
| <b>Current Measurement</b>                 |  |                                 |                                 |                                 |                                 |  |
| Range                                      | 1.6A/8A                                      | 24A / 120A                      | 12A/60A                         | 10A/50A                         | 1.6A / 8A                       | 20A/100A   |
| Accuracy                                   | 0.1%+0.1%F.S.                                | 0.1%+0.1%F.S.                   | 0.1%+0.1%F.S.                   | 0.1%+0.1%F.S.                   | 0.1%+0.1%F.S.                   | 0.1%+0.1%F.S.  |
| <b>Output Noise (0 ~ 20MHz)</b>            |  |                                 |                                 |                                 |                                 |  |
| Voltage Ripple (P-P)                       | 180 mV                                       | 90 mV                           | 100 mV                          | 100 mV                          | 780 mV                          | 50 mV  |
| Voltage Ripple (rms)                       | 90 mV  | 10 mV                           | 10 mV                           | 15 mV                           | 200 mV                          | 15 mV  |
| Current Ripple (rms)                       | 60 mA  | 120 mA                          | 30 mA                           | 20 mA                           | 120 mA                          | 40 mA  |
| <b>OVP Adjustment Range</b>                | 110% of Vset<br>to 110% of Vmax              | 110% of Vset<br>to 110% of Vmax | 110% of Vset<br>to 110% of Vmax | 110% of Vset<br>to 110% of Vmax | 110% of Vset<br>to 110% of Vmax | 110% of Vset<br>to 110% of Vmax  |
| <b>Slew Rate Range</b>                     |  |                                 |                                 |                                 |                                 |  |
| Voltage (with USB)                         | 0.01V - 10V/ms                               | 0.001V - 5V/ms                  | 0.001V - 10V/ms                 | 0.001V - 10V/ms                 | 0.01V - 10V/ms                  | 0.001V - 10V/ms  |
| Current (with USB)                         | 0.001A - 1A/ms                               | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  | 0.001A - 1A/ms                  | 0.001A - 2A/ms   |
| <b>Programming Response Time (Typical)</b> |  |                                 |                                 |                                 |                                 |  |
| Rise Time (Full & No Load)                 | 60 ms  | 8 ms                            | 8 ms                            | 10 ms                           | 60 ms                           | 10 ms  |
| Fall Time                                  | 5 s(max)                                     | 460ms(max)                      | 240 ms(max)                     | 300 ms(max)                     | 5 s(max)                        | 850 ms(max)  |
| <b>Efficiency</b>                          | 0.8  | 0.85                            | 0.85                            | 0.85                            | 0.85                            | 0.85   |
| <b>Drift (8 hours)</b>                     |  |                                 |                                 |                                 |                                 |  |
| Voltage                                    | 0.02% of Vmax                                | 0.02% of Vmax                   | 0.02% of Vmax                   | 0.02% of Vmax                   | 0.02% of Vmax                   | 0.02% of Vmax  |
| Current                                    | 0.04% of Imax                                | 0.04% of Imax                   | 0.04% of Imax                   | 0.04% of Imax                   | 0.04% of Imax                   | 0.04% of Imax  |
| <b>Temperature Coefficient</b>             |  |                                 |                                 |                                 |                                 |  |
| Voltage                                    | 0.02% of Vmax/°C                             | 0.02% of Vmax/°C                | 0.02% of Vmax/°C                | 0.02% of Vmax/°C                | 0.02% of Vmax/°C                | 0.02% of Vmax/°C   |
| Current                                    | 0.04% of Imax/°C                             | 0.04% of Imax/°C                | 0.04% of Imax/°C                | 0.04% of Imax/°C                | 0.04% of Imax/°C                | 0.04% of Imax/°C   |
| <b>Transient Response Time</b>             | 3mS  | 3mS                             | 3mS                             | 3mS                             | 3mS                             | 3mS  |
| 10 % step change                           | 600 mV                                       | 150 mV                          | 250 mV                          | 250 mV                          | 600mV                           | 250 mV   |
| Voltage limit @ Series Mode                | 800V   | 200V                            | 400V                            | 500V                            | 800V                            | 500 V  |
| <b>AC Input Voltage Ranges</b>             | 95 to 250Vac                                 | 190 to 250Vac<br>(single phase) | 190 to 250Vac (3 phase 4 wire, Delta connection) or 342 to 440Vac(3phase 5 wire, Y connection) |
| <b>Operating Temperature</b>               | 0~40°C                                       | 0~40°C                          | 0~40°C                          | 0~40°C                          | 0~40°C                          | 0~40°C   |
| <b>Dimensions (H x W x D)</b>              | 89 x 430 x 425 mm / 3.5 x 16.93 x 16.73 inch |                                 |                                 |                                 |                                 | 176 x 428 x 566 mm /<br>6.93 x 16.85 x 22.28 inch  |
| <b>Weight</b>                              | 11.2 kg / 24.67lbs                           | 13 kg / 28.63 lbs               | 12.2 kg / 26.87 lbs             | 13 kg / 28.63 lbs               | 13 kg / 28.63 lbs               | 28 kg / 61.67 lbs  |

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Note \*1 : 可最大输出功率2400W於输出电压范围22V至40V, 参考如下图示详细操作范围。

## 订购资讯

- 62006P-30-8 : 可程控直流电源供应器, 30V/80A/600W
- 62006P-100-25 : 可程控直流电源供应器, 100V/25A/600W
- 62006P-300-8 : 可程控直流电源供应器, 300V/8A/600W
- 62012P-40-120 : 可程控直流电源供应器, 40V/120A/1200W
- 62012P-80-60 : 可程控直流电源供应器, 80V/60A/1200W
- 62012P-100-50 : 可程控直流电源供应器, 100V/50A/1200W
- 62012P-600-8 : 可程控直流电源供应器, 600V/8A/1200W
- 62024P-40-120 : 可程控直流电源供应器, 40V/120A/2400W
- 62024P-80-60 : 可程控直流电源供应器, 80V/60A/2400W
- 62024P-100-50 : 可程控直流电源供应器, 100V/50A/2400W
- 62024P-600-8 : 可程控直流电源供应器, 600V/8A/2400W
- 62050P-100-100 : 可程控直流电源供应器, 100V/100A/5000W
- A620004 : 62000P系列GPIB 控制界面
- A620006 : 62000P 2U系列19"机框耳架
- A620009 : 62000P系列电脑图形化操作介面Softpanel
- A620015 : 62050P-100-100专用之19"机框耳架
- \* A620023 : 乙太网路控制介面
- \* 请洽Chroma业务办公室



### 规格表-3

| Programming & Measurement Resolution   |                              |
|--|------------------------------|
| Voltage (Front Panel)  | 10 mV                        |
| Current (Front Panel)  | 10 mA                        |
| Voltage (Remote Interface)   | 0.003% of Vmax               |
| Current (Remote Interface)   | 0.002% of Imax               |
| Voltage (Analog Programming Interface )  | 0.04% of Vmax                |
| Current (Analog Programming Interface )  | 0.04% of Imax                |
| Programming Accuracy   |                              |
| Voltage Programming (Front Panel and Remote Interface )  | 0.1% of Vmax                 |
| Voltage Programming (Analog Programming Interface )  | 0.2% of Vmax                 |
| Current Programming (Front Panel and Remote Interface )  | 0.3% of Imax                 |
| Current Programming (Analog Programming Interface )  | 0.3% of Imax                 |
| Programming Response Time  |                              |
| Rise Time : For a programmed 5% to 95% step in output voltage.(Full & No Load)   | See Electrical Specification |
| Fall Time : For a programmed 95% to 5% step in output voltage.   |                              |
| (The fall time will be affected by the external loading from UUT.)   |                              |
| Vout setting (USB send command to DC source receiver)  | 10ms                         |
| ?Volt , ? Current (under USB command using Fetch)  | 10ms                         |
| ?Volt , ? Current (under USB command using Measure)  | 70ms                         |
| Analog Programming Interface   |                              |
| Voltage and Current Programming inputs   | 0~10Vdc or 0~5Vdc of F.S.    |
| Voltage and Current monitor  | 0~10Vdc or 0~5Vdc of F.S.    |
| Isolation : Maximum working voltage of any analog programming signal with respect to chassis potential.                  | 70Vdc                        |
| Auxiliary Power Supply   |                              |
| Output Voltage   | 12Vdc                        |
| Maximum Current Source Capability  | 10mA                         |
| Remote inhibit function (I/O)  |                              |
| Use to disable the output of DC power supply; Active Low   | TTL                          |
| DC-ON Output Signal  |                              |
| Indicate the output status; Active High  | TTL                          |
| Fault output signal  |                              |
| Indicate if there is a fault/protection occurred; Active Low   | TTL                          |
| Series & Parallel operation function with Master / Slave control   |                              |
| Voltage limit @ Series Mode  | See Electrical Specification |
| Number of DC Power Supplies allowed @ Master / Slave control mode  |                              |
| Auto Sequencing Programmable Function  |                              |
| Number of program  | 10                           |
| Number of sequence   | 100                          |
| Time Range   | 5ms - 15,000S                |
| TTL signal out   | 8 bits                       |
| TTL source capability  | 7 mA                         |
| Voltage Step Mode Programmable Function  |                              |
| Start Voltage Range  | 0~full scale                 |
| End Voltage Range  | 0~full scale                 |
| Total Run Time Range (hhh:mm:ss.sss)   | 10ms - 99 hours              |
| Slew Rate Control Function   |                              |
| Voltage slew rate range  | See Electrical Specification |
| (The fall slew rate will be affected by the discharge rate of the output capacitors especially under no load condition.) |                              |
| Current slew rate range  | See Electrical Specification |
| Minimum transition time.   |                              |
| Remote Sense   |                              |
| Line loss compensation   | 5V                           |

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Developed and Manufactured by :

**CHROMA ATE INC.**

致茂電子股份有限公司

总公司

台湾桃园县龟山乡33383  
华亚科技园区华亚一路66号  
Tel: +866-3-327-9999  
Fax: +866-3-327-8898  
<http://www.chromate.com>  
E-mail: chroma@chroma.com.tw

中国

中茂电子(深圳)有限公司  
广东省深圳市南山区登良路  
南油天安工业村4号厂房8F  
PC: 518052  
Tel: +86-755-2664-4598  
Fax: +86-755-2641-9620

致茂电子(苏州)有限公司  
江苏省苏州市高新区竹园路  
9-1号狮山工业园6号厂房  
PC: 215011  
Tel: +86-512-6824-5425  
Fax: +86-512-6824-0732

上海  
Tel :+86-21-6495-9900  
Fax :+86-21-6495-3964  
北京  
Tel :+86-10-6803-9350  
Fax :+86-10-6803-9852

东莞  
Tel :+86-769-8663-9376  
Fax:+86-769-8631-0896  
厦门  
Tel :+86-592-826-2055  
Fax :+86-592-826-2022