

3350G 系列

高功率直流电子负载



HIGH POWER DC ELECTRONIC LOAD

PRODIGIT
INSTRUMENT PROFESSIONAL

 **海洋儀器**

致力于电子测试、维护领域!

北京海洋兴业科技股份有限公司

北京市西三旗东黄平路19号龙旗广场E座(4号楼)906室

电话: 010-62176775 62178811 62176785

企业官网: www.hyxyyq.com 电子邮箱: market@oitek.com.cn



扫描二维码关注我们
或查找微信公众号: 海洋仪器

| | Normal mode | Turbo mode |
|-------|----------------------|----------------------|
| 3354G | 150V / 400A / 4000W | 150V / 600A / 6000W |
| 3355G | 150V / 500A / 5000W | 150V / 750A / 7500W |
| 3356G | 150V / 600A / 6000W | 150V / 900A / 9000W |
| 3364G | 600V / 280A / 4000W | 600V / 420A / 6000W |
| 3365G | 600V / 350A / 5000W | 600V / 525A / 7500W |
| 3366G | 600V / 420A / 6000W | 600V / 630A / 9000W |
| 3374G | 1200V / 160A / 4000W | 1200V / 240A / 6000W |
| 3375G | 1200V / 200A / 5000W | 1200V / 300A / 7500W |
| 3376G | 1200V / 240A / 6000W | 1200V / 360A / 9000W |



特 性

- 5位之數位電壓、電流以及功率錶
- 可同時顯示電壓值、電流值、瓦特值
- 大型 LCD Display、可用飛梭旋鈕或按鍵調整設定值
- 不只CC、CR、CP mode具備並聯操作功能，CV mode亦具備並聯操作功能
- 可設定開機狀態值
- 於短路測試時可設定短路時間
- 電壓極性顯示可設成正值（“+”）或負值（“-”）
- 主從控制最多為 1 個 Master 7 個 Slave
- 可選用介面：GPIB、RS232、USB、LAN
- 支援太陽能板MPPT CV測試
- 提供電池BMS保護板之保護功能測試
- 9923負載電流波形產生器提供電池實際放電電流波形之模擬（選購）
- 內建測試模式包括 Battery Discharge time, BMS, 短路模擬, OCP, OPP 等測試模式
- Turbo mode (倍增模式)，能夠在短時間內承受多達1.5倍電流與功率的電子負載，最適合BMS及短路、OCP、OPP測試。
- 定電流、定電阻、定電壓、定功率、定電流 + 定電壓、定功率 + 定電壓、動態及短路模式
- 過電流、功率、溫度保護及過電壓示警
- 內建緩啟動電路功能，允許UUT電源直接連接到3360G、3370G系列負載輸入端，不再需要外接緩啟動電路的大型繼電器開關

說 明

- 每個3350G系列模組均有獨立的控制及顯示面板、定電流/定電阻/定電壓/定功率/動態模式，更可透過RS232、Ethernet、USB和GPIB等介面進行遠端控制。
- 具備短路測試功能及設定短路時間，並可量測短路電壓及電流。
- 在定電流及定功率模式下，可做動態負載之模擬，其電流上升、下降斜率均為獨立可調，另具有一外部輸入任意波形之動態負載功能。
- 於模組上新增的OCP、OPP單鍵測試功能，使得OCP、OPP之測試更有效率及準確。
- 可設定的吃載/停止吃載（LOAD ON/OFF）電壓點及良/不良（GO/NG）的比較判斷功能、電壓極性顯示可正可負及150組 儲存/呼叫 記憶，使得負載更適用於各種不同的應用。
- 多達150組測試參數及狀態的儲存功能，讓其可根據自動測試(auto sequence)需求，隨時將儲存記憶調出來任意使用。
- 針對電池BMS保護板提供Short、OCCP及OCDP之保護功能測試

應 用

- 電壓/電流源測試
- 交換式電源供應器暫態響應
- 定電壓模式供限流測試及模擬電池
- 電池放電容量
- 鋰電池BMS充放電保護
- 太陽能板MPPT
- 研發、品管
- ATE系統
- 生產測試

規 格

| MODEL | 3354G | | | | 3355G | | | | 3356G | | | |
|--|----------------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|-------------------|------------------------|
| Power *1 | 0~4000W | | 0~6000W max.*1 | | 0~5000W | | 0~7500W max.*1 | | 0~6000W | | 0~9000W max.*1 | |
| Current | 0~400A | | 0~600A max.*1 | | 0~500A | | 0~750A max.*1 | | 0~600A | | 0~900A max.*1 | |
| Voltage | 0~150V | | | | 0~150V | | | | 0~150V | | | |
| Min. Operating Voltage | 0.7V @ 400A | | | | 0.7V @ 500A | | | | 0.7V @ 600A | | | |
| Protections | | | | | | | | | | | | |
| Over Power Protection (OPP) | 105% | | | | | | | | | | | |
| Over Current Protection (OCP) | 104% | | | | | | | | | | | |
| Over Voltage Protection (OVP) | 105% | | | | | | | | | | | |
| Over Temp Protection (OTP) | 90°C ± 5°C | | | | | | | | | | | |
| Constant Current Mode | | | | | | | | | | | | |
| Range *2 | 0~40A | | 0~400A | | 0~50A | | 0~500A | | 0~60A | | 0~600A | |
| Resolution | 0.00064A | | 0.0064A | | 0.00080A | | 0.0080A | | 0.00096A | | 0.0096A | |
| Accuracy *3 | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | |
| Range | 0.375~22500Ω | | 0.0018~0.375Ω | | 0.3~18000Ω | | 0.0015~0.3Ω | | 0.25~15000Ω | | 0.0012~0.25Ω | |
| Resolution | 0.000044S | | 0.00000625Ω | | 0.000056S | | 0.000005Ω | | 0.000067S | | 0.000004167Ω | |
| Accuracy | ± 0.2% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | |
| Range | 0~15V | | 0~150V | | 0~15V | | 0~150V | | 0~15V | | 0~150V | |
| Resolution | 0.00025V | | 0.0025V | | 0.00025V | | 0.0025V | | 0.00025V | | 0.0025V | |
| Accuracy | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Power Mode | | | | | | | | | | | | |
| Range | 0~400W | | 0~4000W | | 0~500W | | 0~5000W | | 0~600W | | 0~6000W | |
| Resolution | 0.0064W | | 0.064W | | 0.008W | | 0.08W | | 0.0096W | | 0.096W | |
| Accuracy *4 | ± 0.1% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Current Mode | | | | | | | | | | | | |
| Range | 150V | | 400A | | 150V | | 500A | | 150V | | 600A | |
| Resolution | 0.0025V | | 0.0064A | | 0.0025V | | 0.008A | | 0.0025V | | 0.0096A | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Power Mode | | | | | | | | | | | | |
| Range | 150V | | 4000W | | 150V | | 5000W | | 150V | | 6000W | |
| Resolution | 0.0025V | | 0.064W | | 0.0025V | | 0.08W | | 0.0025V | | 0.1W | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Turbo mode *5 | OFF | | ON | | OFF | | ON | | OFF | | ON | |
| Short/OCP/OPP Test Function | | | | | | | | | | | | |
| Maximum Current | 400A | | 600A | | 500A | | 750A | | 600A | | 900A | |
| Meas. Accuracy | ± 1.0% of (Reading + Range) | | | | | | | | | | | |
| Short time | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | |
| | Continus | | | | Continus | | | | Continus | | | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OCP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OPP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| BMS Test Mode *6 | | | | | | | | | | | | |
| | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON |
| Short time | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS |
| Meas. Accuracy | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS |
| OCP Time (Tstep) | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS |
| Meas. Accuracy | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS |
| Surge Test Mode | | | | | | | | | | | | |
| Surge current | 0~600A | | | | 0~750A | | | | 0~900A | | | |
| Normal current | 0~300A | | | | 0~375A | | | | 0~450A | | | |
| Surge Time | 10~2000ms | | | | 10~2000ms | | | | 10~2000ms | | | |
| Surge Step | 1~5 | | | | 1~5 | | | | 1~5 | | | |
| MPPT Mode | | | | | | | | | | | | |
| Algorithm | P&O | | | | | | | | | | | |
| Load mode | CV | | | | | | | | | | | |
| P&O interval | 1000~60000mS | | | | | | | | | | | |
| Rresolution | 1000mS | | | | | | | | | | | |
| Dynamic Mode | | | | | | | | | | | | |
| Timing | | | | | | | | | | | | |
| Thigh & Tlow | 0.010~9.999 / 99.99 / 999.9 / mS | | | | | | | | | | | |
| Resolution | 0.001 / 0.01 / 0.1 / 1mS | | | | | | | | | | | |
| Accuracy | 1/10/100/1000 uS+50ppm | | | | | | | | | | | |
| Slew rate | 0.0256~1.600A/uS | | 0.2560~16.000A/uS | | 0.0320~2.000A/uS | | 0.3200~20.000A/uS | | 0.0384~2.400A/uS | | 0.3840~24.000A/uS | |
| Resolution | 0.0064A/uS | | 0.064A/uS | | 0.008A/uS | | 0.08A/uS | | 0.0096A/uS | | 0.096A/uS | |
| Min. Rise Time | 25 uS(Typ.) | | | | | | | | | | | |
| Current | | | | | | | | | | | | |
| Range | 0~40A | | 40~400A | | 0~50A | | 50~500A | | 0~60A | | 60~600A | |
| Resolution | 0.00064A | | 0.0064A | | 0.00080A | | 0.008A | | 0.00096A | | 0.0096A | |
| Measurement | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~15V | | 15~150V | | 0~15V | | 15~150V | | 0~15V | | 15~150V | |
| Resolution | 0.00025V | | 0.0025V | | 0.00025 V | | 0.0025V | | 0.00025V | | 0.0025V | |
| Accuracy | ± 0.025% of (Reading + Range) | | | | | | | | | | | |
| Current Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~40A | | 40~400A | | 0~50A | | 50~500A | | 0~60A | | 60~600A | |
| Resolution | 0.00064A | | 0.0064A | | 0.0008A | | 0.008A | | 0.00096A | | 0.0096A | |
| Accuracy | ± 0.05% of (Reading + Range) | | | | | | | | | | | |
| Power Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 4000W | | | | 5000W | | | | 6000W | | | |
| Accuracy *7 | ± 0.06% of (Reading + Range) | | | | | | | | | | | |
| General | | | | | | | | | | | | |
| Typical Short Resistance | 0.0018Ω | | | | 0.0015Ω | | | | 0.0012Ω | | | |
| Maximum Short Current | 400A | | | | 500A | | | | 600A | | | |
| Load ON Voltage | 0.25~62.5V | | | | | | | | | | | |
| Load OFF Voltage | 0~62.5V | | | | | | | | | | | |
| Power Consumption | 550VA | | | | | | | | | | | |
| Dimension (HxWxD) | 177mm x 440mm x 745mm | | | | | | | | | | | |
| Weight | 28kg | | | | | | | | | | | |
| Temperature *8 | 0~40°C | | | | | | | | | | | |
| Safety & EMC | CE | | | | | | | | | | | |

Note *1 : The power rating specifications at ambient temperature = 25°C
 Note *2 : The range is automatically or forcing to range II only in CC mode
 Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.
 Note *4 : Power range = Vrange x Irange

Note *5 : Turbo mode for up to 1.5X Current rating & Power rating support BMS, Short/OCP/OPP test function
 Note *6 : BMS Test function for Battery Management System Board SHORT, OCCP and OCPD Test
 Note *7 : Power F.S. = Vrange F.S. x Irange F.S.
 Note *8 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

訂 購 方 式

高功率直流電子負載 ▶ **3354G** 150V · 400A · 4000W
 ▶ **3355G** 150V · 500A · 5000W
 ▶ **3356G** 150V · 600A · 6000W

選購介面： ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

All specifications are subject to change without notice.

規 格

| MODEL | 3364G | | | | 3365G | | | | 3366G | | | |
|--|----------------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|-------------------|------------------------|
| Power *1 | 0~4000W | | 0~6000W max.*1 | | 0~5000W | | 0~7500W max.*1 | | 0~6000W | | 0~9000W max.*1 | |
| Current | 0~280A | | 0~420A max.*1 | | 0~350A | | 0~525A max.*1 | | 0~420A | | 0~630A max.*1 | |
| Voltage | 0~600V | | | | 0~600V | | | | 0~600V | | | |
| Min. Operating Voltage | 10V @ 280A | | | | 10V @ 350A | | | | 10V @ 420A | | | |
| Protections | | | | | | | | | | | | |
| Over Power Protection (OPP) | 105% | | | | | | | | | | | |
| Over Current Protection (OCP) | 104% | | | | | | | | | | | |
| Over Voltage Protection (OVP) | 105% | | | | | | | | | | | |
| Over Temp Protection (OTP) | 90°C ± 5°C | | | | | | | | | | | |
| Constant Current Mode | | | | | | | | | | | | |
| Range *2 | 0~28A | | 0~280A | | 0~35A | | 0~350A | | 0~42A | | 0~420A | |
| Resolution | 0.000448A | | 0.00448A | | 0.00056A | | 0.0056A | | 0.000672A | | 0.00672A | |
| Accuracy *3 | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | |
| Range | 2.1428~128568Ω | | 0.03576~2.1428Ω | | 1.71424~102854.4Ω | | 0.028608~1.71424Ω | | 1.4285~85712Ω | | 0.02384~1.4285Ω | |
| Resolution | 0.000008S | | 0.000036Ω | | 0.000010S | | 0.000029Ω | | 0.000012S | | 0.000024Ω | |
| Accuracy | ± 0.2% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | |
| Range | 0~60V | | 0~600V | | 0~60V | | 0~600V | | 0~60V | | 0~600V | |
| Resolution | 0.001V | | 0.01V | | 0.001V | | 0.01V | | 0.001V | | 0.01V | |
| Accuracy | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Power Mode | | | | | | | | | | | | |
| Range | 0~400W | | 0~4000W | | 0~500W | | 0~5000W | | 0~600W | | 0~6000W | |
| Resolution | 0.0064W | | 0.064W | | 0.008W | | 0.08W | | 0.0096W | | 0.096W | |
| Accuracy *4 | ± 0.1% of (Setting+Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Current Mode | | | | | | | | | | | | |
| Range | 600V | | 280A | | 600V | | 350A | | 600V | | 420A | |
| Resolution | 0.01V | | 0.00448A | | 0.01V | | 0.0056A | | 0.01V | | 0.00672A | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Power Mode | | | | | | | | | | | | |
| Range | 600V | | 4000W | | 600V | | 5000W | | 600V | | 6000W | |
| Resolution | 0.01V | | 0.064W | | 0.01V | | 0.08W | | 0.0096V | | 0.096W | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Turbo mode *5 | OFF | | ON | | OFF | | ON | | OFF | | ON | |
| Short/OCP/OPP Test Function | | | | | | | | | | | | |
| Maximum Current | 280A | | 420A | | 350A | | 525A | | 420A | | 630A | |
| Meas. Accuracy | ± 1.0% of (Reading + Range) | | | | | | | | | | | |
| Short time | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | |
| | Continus | | | | Continus | | | | Continus | | | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OCP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OPP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| BMS Test Mode *6 | | | | | | | | | | | | |
| | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON |
| Short time | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS |
| Meas. Accuracy | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS |
| OCP Time (Tstep) | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS |
| Meas. Accuracy | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS |
| Surge Test Mode | | | | | | | | | | | | |
| Surge current | 0~420A | | | | 0~525A | | | | 0~630A | | | |
| Normal current | 0~210A | | | | 0~262.5A | | | | 0~315A | | | |
| Surge Time | 10~2000ms | | | | 10~2000ms | | | | 10~2000ms | | | |
| Surge Step | 1~5 | | | | 1~5 | | | | 1~5 | | | |
| MPPT Mode | | | | | | | | | | | | |
| Algorithm | P&O | | | | | | | | | | | |
| Load mode | CV | | | | | | | | | | | |
| P&O interval | 1000~60000mS | | | | | | | | | | | |
| Rresolution | 1000mS | | | | | | | | | | | |
| Dynamic Mode | | | | | | | | | | | | |
| Timing | | | | | | | | | | | | |
| Thigh & Tlow | 0.010~9.999 / 99.99 / 999.9 / mS | | | | | | | | | | | |
| Resolution | 0.001 / 0.01 / 0.1 / 1mS | | | | | | | | | | | |
| Accuracy | 1/10/100/1000 uS+50ppm | | | | | | | | | | | |
| Slew rate | 0.01792~1.120A/uS | | 0.1792~11.200A/uS | | 0.0224~1.400A/uS | | 0.2240~14.000A/uS | | 0.02688~1.680A/uS | | 0.2688~16.800A/uS | |
| Resolution | 0.00448A/uS | | 0.0448A/uS | | 0.0056A/uS | | 0.056A/uS | | 0.00672A/uS | | 0.0672A/uS | |
| Min. Rise Time | 25 uS(Typ.) | | | | | | | | | | | |
| Current | | | | | | | | | | | | |
| Range | 0~28A | | 28~280A | | 0~35A | | 35~350A | | 0~42A | | 42~420A | |
| Resolution | 0.00045A | | 0.00448A | | 0.00056A | | 0.0056A | | 0.00067A | | 0.00672A | |
| Measurement | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~60V | | 60~600V | | 0~60V | | 60~600V | | 0~60V | | 60~600V | |
| Resolution | 0.00100V | | 0.0100V | | 0.00100V | | 0.0100V | | 0.00100V | | 0.0100V | |
| Accuracy | ± 0.025% of (Reading + Range) | | | | | | | | | | | |
| Current Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~28A | | 28~280A | | 0~35A | | 35~350A | | 0~42A | | 42~420A | |
| Resolution | 0.000448A | | 0.00448A | | 0.00056A | | 0.0056A | | 0.000672A | | 0.00672A | |
| Accuracy | ± 0.05% of (Reading + Range) | | | | | | | | | | | |
| Power Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 4000W | | | | 5000W | | | | 6000W | | | |
| Accuracy *7 | ± 0.06% of (Reading + Range) | | | | | | | | | | | |
| General | | | | | | | | | | | | |
| Typical Short Resistance | 0Ω | | | | 0Ω | | | | 0Ω | | | |
| Maximum Short Current | 280A | | | | 350A | | | | 420A | | | |
| Load ON Voltage | 0.4~100V | | | | | | | | | | | |
| Load OFF Voltage | 0~100V | | | | | | | | | | | |
| Power Consumption | 550VA | | | | | | | | | | | |
| Dimension (HxWxD) | 177mm x 440mm x 745mm | | | | | | | | | | | |
| Weight | 29kg | | | | | | | | | | | |
| Temperature *8 | 0~40°C | | | | | | | | | | | |
| Safety & EMC | CE | | | | | | | | | | | |

Note *1 : The power rating specifications at ambient temperature = 25°C
 Note *2 : The range is automatically or forcing to range II only in CC mode
 Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.
 Note *4 : Power range = Vrange x Irange

Note *5 : Turbo mode for up to 1.5X Current rating & Power rating support BMS, Short/OCP/OPP test function
 Note *6 : BMS Test function for Battery Management System Board SHORT, OCCP and OCPD Test
 Note *7 : Power F.S. = Vrange F.S. x Irange F.S.
 Note *8 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

訂 購 方 式

高功率直流電子負載 ▶ **3364G** 600V · 280A · 4000W
 ▶ **3365G** 600V · 350A · 5000W
 ▶ **3366G** 600V · 420A · 6000W

選購介面：① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

規 格

| MODEL | 3374G | | | | 3375G | | | | 3376G | | | |
|--|----------------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|-------------------|------------------------|--------------------------|------------------------|------------------|------------------------|
| Power *1 | 0~4000W | | 0~6000W max.*1 | | 0~5000W | | 0~7500W max.*1 | | 0~6000W | | 0~9000W max.*1 | |
| Current | 0~160A | | 0~240A max.*1 | | 0~200A | | 0~300A max.*1 | | 0~240A | | 0~360A max.*1 | |
| Voltage | 0~1200V | | | | 0~1200V | | | | 0~1200V | | | |
| Min. Operating Voltage | 15V @ 160A | | | | 15V @ 200A | | | | 15V @ 240A | | | |
| Protections | | | | | | | | | | | | |
| Over Power Protection (OPP) | 105% | | | | | | | | | | | |
| Over Current Protection (OCP) | 104% | | | | | | | | | | | |
| Over Voltage Protection (OVP) | 105% | | | | | | | | | | | |
| Over Temp Protection (OTP) | 90°C ± 5°C | | | | | | | | | | | |
| Constant Current Mode | | | | | | | | | | | | |
| Range *2 | 0~16A | | 0~160A | | 0~20A | | 0~200A | | 0~24A | | 0~240A | |
| Resolution | 0.000256A | | 0.00256A | | 0.00032A | | 0.0032A | | 0.000384A | | 0.00384A | |
| Accuracy *3 | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | |
| Range | 7.5~450000Ω | | 0.09375~7.5Ω | | 6~360000Ω | | 0.075~6Ω | | 5~300000Ω | | 0.0625~5Ω | |
| Resolution | 0.0000022S | | 0.000125Ω | | 0.0000028S | | 0.000100Ω | | 0.0000033S | | 0.00008334Ω | |
| Accuracy | ± 0.2% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | |
| Range | 0~120V | | 0~1200V | | 0~120V | | 0~1200V | | 0~120V | | 0~1200V | |
| Resolution | 0.002V | | 0.02V | | 0.002V | | 0.02V | | 0.002V | | 0.02V | |
| Accuracy | ± 0.05% of (Setting + Range) | | | | | | | | | | | |
| Constant Power Mode | | | | | | | | | | | | |
| Range | 0~400W | | 0~4000W | | 0~500W | | 0~5000W | | 0~600W | | 0~6000W | |
| Resolution | 0.0064W | | 0.064W | | 0.008W | | 0.08W | | 0.0096W | | 0.096W | |
| Accuracy *4 | ± 0.1% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Current Mode | | | | | | | | | | | | |
| Range | 1200V | | 160A | | 1200V | | 200A | | 1200V | | 240A | |
| Resolution | 0.02V | | 0.00256A | | 0.02V | | 0.0032A | | 0.02V | | 0.00384A | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Constant Voltage Mode + Constant Power Mode | | | | | | | | | | | | |
| Range | 1200V | | 4000W | | 1200V | | 5000W | | 1200V | | 6000W | |
| Resolution | 0.02V | | 0.064W | | 0.02V | | 0.08W | | 0.02V | | 0.096W | |
| Accuracy | ± 1.0% of (Setting + Range) | | | | | | | | | | | |
| Turbo mode *5 | OFF | | ON | | OFF | | ON | | OFF | | ON | |
| Short/OCP/OPP Test Function | | | | | | | | | | | | |
| Maximum Current | 160A | | 240A | | 200A | | 300A | | 240A | | 360A | |
| Meas. Accuracy | ± 1.0% of (Reading + Range) | | | | | | | | | | | |
| Short time | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | | 100~10000mS | | 100~2000mS | |
| | Continus | | | | Continus | | | | Continus | | | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OCP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| OPP Time (Tstep) | 100mS | | 20mS | | 100mS | | 20mS | | 100mS | | 20mS | |
| Meas. Accuracy | NA | | NA | | NA | | NA | | NA | | NA | |
| BMS Test Mode *6 | | | | | | | | | | | | |
| | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON | OFF | ON |
| Short time | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS | 100ms~10Sec. Continus | 0.05~10mS | 100~1000ms | 0.05~10mS |
| Meas. Accuracy | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS | NA | ±0.005mS |
| OCP Time (Tstep) | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS | 100mS | 0.05~10mS 11~1000mS | 20mS | 0.05~10mS 11~1000mS |
| Meas. Accuracy | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS | NA | ±0.005mS ±0.2mS |
| Surge Test Mode | | | | | | | | | | | | |
| Surge current | 0~240A | | | | 0~300A | | | | 0~360A | | | |
| Normal current | 0~120A | | | | 0~150A | | | | 0~180A | | | |
| Surge Time | 10~2000ms | | | | 10~2000ms | | | | 10~2000ms | | | |
| Surge Step | 1~5 | | | | 1~5 | | | | 1~5 | | | |
| MPPT Mode | | | | | | | | | | | | |
| Algorithm | P&O | | | | | | | | | | | |
| Load mode | CV | | | | | | | | | | | |
| P&O interval | 1000~60000mS | | | | | | | | | | | |
| Rresolution | 1000mS | | | | | | | | | | | |
| Dynamic Mode | | | | | | | | | | | | |
| Timing | | | | | | | | | | | | |
| Thigh & Tlow | 0.010~9.999 / 99.99 / 999.9 / mS | | | | | | | | | | | |
| Resolution | 0.001 / 0.01 / 0.1 / 1mS | | | | | | | | | | | |
| Accuracy | 1/10/100/1000 uS+50ppm | | | | | | | | | | | |
| Slew rate | 0.01024~0.640 A/uS | | 0.1024~6.400 A/uS | | 0.0128~0.800 A/uS | | 0.1280~8.000 A/uS | | 0.01536~0.960 A/uS | | 0.1536~9.600A/uS | |
| Resolution | 0.00256A/uS | | 0.0256A/uS | | 0.0032A/uS | | 0.032A/uS | | 0.00384A/uS | | 0.0384A/uS | |
| Min. Rise Time | 25 uS(Typ.) | | | | | | | | | | | |
| Current | | | | | | | | | | | | |
| Range | 0~16A | | 16~160A | | 0~20A | | 20~200A | | 0~24A | | 24~240A | |
| Resolution | 0.00026A | | 0.00256A | | 0.00032A | | 0.0032A | | 0.00038A | | 0.00384A | |
| Measurement | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~120V | | 120~1200V | | 0~120V | | 120~1200V | | 0~120V | | 120~1200V | |
| Resolution | 0.00200V | | 0.0200V | | 0.00200V | | 0.0200V | | 0.00200V | | 0.0200V | |
| Accuracy | ± 0.025% of (Reading + Range) | | | | | | | | | | | |
| Current Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 0~16A | | 16~160A | | 0~20A | | 20~200A | | 0~24A | | 24~240A | |
| Resolution | 0.000256A | | 0.00256A | | 0.00032A | | 0.0032A | | 0.000384A | | 0.00384A | |
| Accuracy | ± 0.05% of (Reading + Range) | | | | | | | | | | | |
| Power Read Back | | | | | | | | | | | | |
| Range (5 Digital) | 4000W | | | | 5000W | | | | 6000W | | | |
| Accuracy *7 | ± 0.06% of (Reading + Range) | | | | | | | | | | | |
| General | | | | | | | | | | | | |
| Typical Short Resistance | 0.09375Ω | | | | 0.075Ω | | | | 0.062505Ω | | | |
| Maximum Short Current | 160A | | | | 200A | | | | 240A | | | |
| Load ON Voltage | 1~250V | | | | | | | | | | | |
| Load OFF Voltage | 0~250V | | | | | | | | | | | |
| Power Consumption | 550VA | | | | | | | | | | | |
| Dimension (HxWxD) | 177mm x 440mm x 745mm | | | | | | | | | | | |
| Weight | 29kg | | | | | | | | | | | |
| Temperature *8 | 0~40°C | | | | | | | | | | | |
| Safety & EMC | CE | | | | | | | | | | | |

Note *1 : The power rating specifications at ambient temperature = 25°C
 Note *2 : The range is automatically or forcing to range II only in CC mode
 Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.
 Note *4 : Power range = Vrange x Irange

Note *5 : Turbo mode for up to 1.5X Current rating & Power rating support BMS, Short/OCP/OPP test function
 Note *6 : BMS Test function for Battery Management System Board SHORT, OCCP and OCPD Test
 Note *7 : Power F.S. = Vrange F.S. x Irange F.S.
 Note *8 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

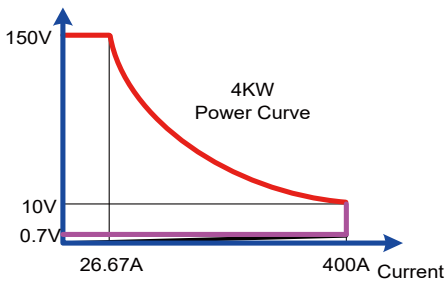
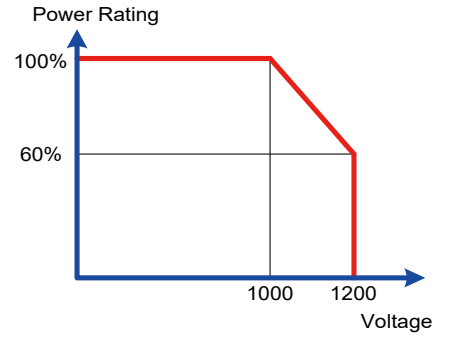
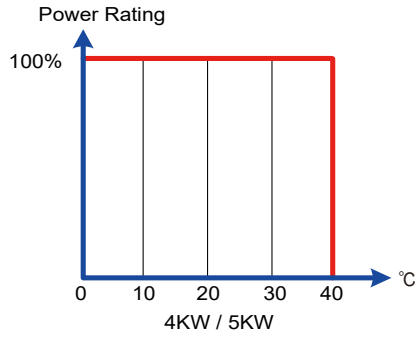
訂 購 方 式

高功率直流電子負載

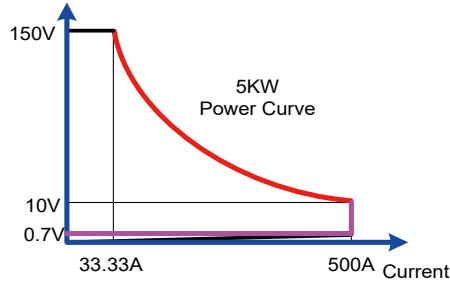
- ▶ 3374G 1200V · 160A · 4000W
- ▶ 3375G 1200V · 200A · 5000W
- ▶ 3376G 1200V · 240A · 6000W

選購介面：① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

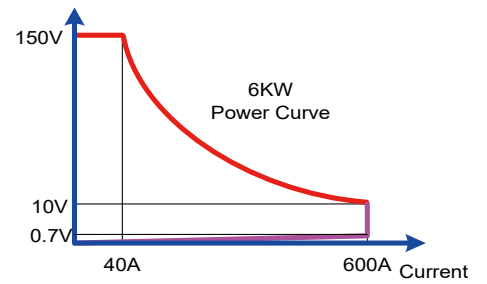
功率曲线



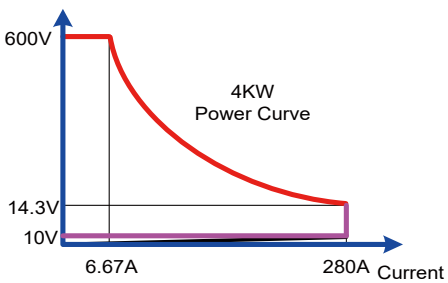
3354G



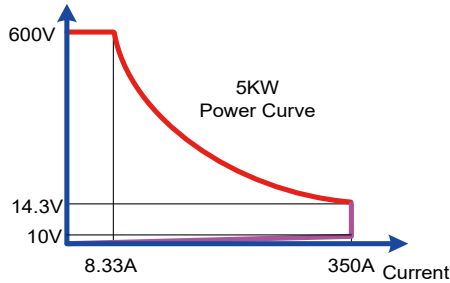
3355G



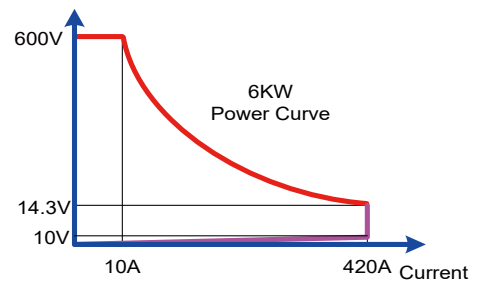
3356G



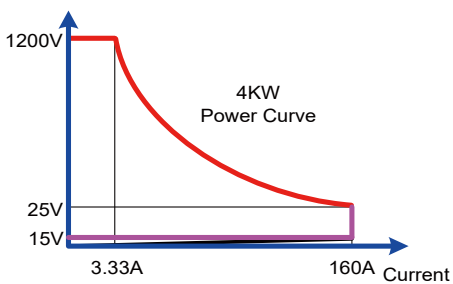
3364G



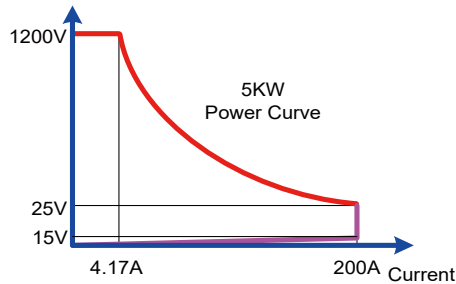
3365G



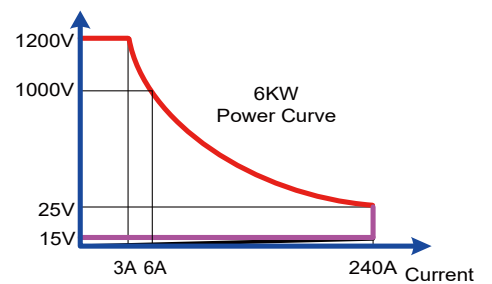
3366G



3374G



3375G



3376G