



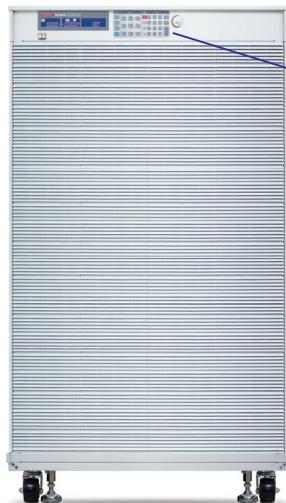
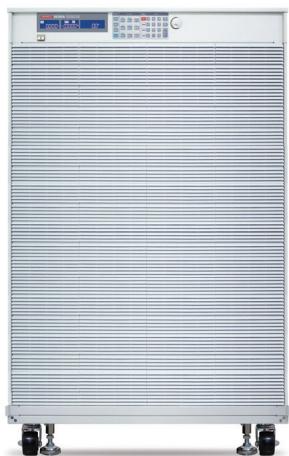
36000A 系列

超高功率直流電子負載

特 點

- 具備並聯功能，最大功率可達 320 kW
- 最高達 8 台主從並聯控制
- 5 位數之數位電壓、電流及功率表
- 高速量測及通訊傳輸速率
- 大型 LCD Display，可用飛梭旋鈕或按鍵調整設定值
- 可同時顯示電壓值、電流值、瓦特值
- 適用於功率因數調整器 (PFC) 測試用
- 可自動執行 OCP、OPP 測試
- 可設定開機狀態值
- 定電流、定電阻、定電壓、定功率、定電壓+限電流、定電壓+限功率、動態及短路模式。
- 於短路測試時可設定短路時間。

36000A 系列 超高功率直流電子負載 (50 kW, 60 kW)



600 V
1000V

50 kW
60 kW

4 機種



特 性

- 具備並聯功能，最大功率可達 480 kW
- 最高達 8 台主/從並聯控制
- 5 位數之數位電壓、電流以及功率錶
- 高速量測及通訊傳輸速率
- 大型 LCD Display、可用飛梭旋鈕或按鍵調整設定值
- 可同時顯示電壓值、電流值、瓦特值
- 適用於功率因數調整器(PFC)測試用
- 可自動執行OCP、OPP測試
- 可設定開機狀態值
- 於短路測試時可設定短路時間
- 定電流、定電阻、定電壓、定功率、定電壓+限電流、定電壓+限功率、動態及短路模式
- 過電流、功率、溫度保護及過電壓示警
- 電壓極性顯示可設成正值 ("+") 或負值 ("−")
- 可選用介面：GPIB、RS232、USB、LAN
- 支援太陽能板MPPT CV測試
- 內建緩啟動電路功能，允許UUT電源直接連接到36000A 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

- 36000A36000A系列具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，配合面板上的150組儲存/呼叫記憶，能有效地控制所有負載的設定，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-外部輸入任意波形之動態負載功能。
- 具有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。
- 因其耐壓可高達1000 V，故而非常適用於功率因數調整器 (PFC) 的測試應用。
- 主/從控制最多為1個MASTER，7個SLAVE

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
- 電池充電
- 研發、品管
- ATE系統
- 生產測試

SPECIFICATIONS

| Model | 36250A | | 36260A | | 36350A | | 36360A | | | | | | | |
|---------------------------------------|--|--|---|--|---|--|---|--|--|--|--|--|--|--|
| Power | 50 KW | 50 KW | 60 KW | 60 KW | 50 KW | 50 KW | 60 KW | 60 KW | | | | | | |
| Current | 0 A to 21 A | 0 A to 210 A | 0 A to 24 A | 0 A to 240 A | 0 A to 50 A | 0 A to 500 A | 0 A to 60 A | 0 A to 600 A | | | | | | |
| Voltage | 0 V to 600 V | | 0 V to 1000 V | | 0 V to 1000 V | | 0 V to 600 A | | | | | | | |
| Min. Operating Voltage | 20 V @ 210 A | | 20 V @ 240 A | | 30 V @ 500 A | | 30 V @ 600 A | | | | | | | |
| Protections | | | | | | | | | | | | | | |
| Over Power Protection(OPP) | 105 % | | | | | | | | | | | | | |
| Over Current Protection(OCF) | 104 % | | | | | | | | | | | | | |
| Over Voltage Protection(OVP) | 105 % | | | | | | | | | | | | | |
| Over Temp Protection(OTP) | YES | | | | | | | | | | | | | |
| Constant Current Mode | | | | | | | | | | | | | | |
| Range *1 | 21 A | 210 A | 24 A | 240 A | 5.00 A | 500 A | 60 A | 600 A | | | | | | |
| Resolution | 0.336 mA | 3.36 mA | 0.384 mA | 3.84 mA | 0.875 mA | 8.75 mA | 1 mA | 10 mA | | | | | | |
| Accuracy | $\pm 0.05\% \text{ of (Setting + Range)}$ | | | | | | | | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | | | |
| Range | 8571 Ω to 2,857 Ω | 2,857 Ω to 0.0477 Ω | 7500 Ω to 2.5 Ω | 2.5 Ω to 0.0417 Ω | 2280 Ω to 1.9 Ω | 1.9 Ω to 0.02 Ω | 2000 Ω to 1.666 Ω | 1.666 Ω to 0.01668 Ω | | | | | | |
| Resolution*6 | 5.83 μS | 47.7 μΩ | 6.66 μS | 41.7 μΩ | 8.7 μS | 32 μΩ | 10 μS | 27.833 μΩ | | | | | | |
| Accuracy | $\pm 0.2\% \text{ of (Setting + Range)}$ | | | | | | | | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | | | |
| Range | 0 V to 600 V | | 10 V to 1000 V | | 10 V to 1000 V | | 16 mV | | | | | | | |
| Resolution | 10 mV | | 16 mV | | 16 mV | | 10 mA | | | | | | | |
| Accuracy | $\pm 0.05\% \text{ of (Setting + Range)}$ | | | | | | | | | | | | | |
| Constant Power Mode | | | | | | | | | | | | | | |
| Range | 5 KW | 50 KW | 6 KW | 60 KW | 5 KW | 50 KW | 6 KW | 60 KW | | | | | | |
| Resolution | 0.0875 W | 0.875 W | 0.1 W | 1 W | 0.0875 W | 0.875 W | 0.1 W | 1 W | | | | | | |
| Accuracy *2 | $\pm 0.1\% \text{ of (Setting + Range)}$ | | | | | | | | | | | | | |
| Constant Voltage + Current Limit Mode | | | | | | | | | | | | | | |
| Range | 600 V | 50 KW | 600 V | 60 KW | 1000 V | 50 KW | 1000 V | 600 A | | | | | | |
| Resolution | 10 mV | 3.36 mA | 10 mV | 3.84 mA | 16 mV | 8.75 mA | 16 mV | 10 mA | | | | | | |
| Accuracy | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | | | | | | |
| Constant Voltage + Power Limit Mode | | | | | | | | | | | | | | |
| Range | 600 V | 50 KW | 600 V | 60 KW | 1000 V | 50 KW | 1000 V | 60 KW | | | | | | |
| Resolution | 10 mV | 0.875 W | 10 mV | 1 W | 16 mV | 0.8 W | 16 mV | 1 W | | | | | | |
| Accuracy | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | $\pm 0.05\% \text{ of (Setting + Range)}$ | $\pm 1.0\% \text{ of (Setting + Range)}$ | | | | | | |
| MPPT Mode | | | | | | | | | | | | | | |
| Algorithm | P & O | | | | | | | | | | | | | |
| Load mode | CV | | | | | | | | | | | | | |
| P&O interval | 1000 ms to 60000 ms ; resolution 1000 ms | | | | | | | | | | | | | |
| Dynamic Mode | | | | | | | | | | | | | | |
| Timing | | | | | | | | | | | | | | |
| Thigh & Tlow | 0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 ms | | | | | | | | | | | | | |
| Resolution | 0.001 ms / 0.01 ms / 0.1 ms / 1 ms | | | | | | | | | | | | | |
| Accuracy | 1 μs / 10 μs / 100 μs / 1 ms + 50 ppm | | | | | | | | | | | | | |
| Slew rate | 6.8 mA/μs to 1.05 A/μs | 68 mA/μs to 10.5 A/μs | 19.2 mA/μs to 1.2 A/μs | 192 mA/μs to 12 A/μs | 0.04 A/μs to 2.5 A/μs | 0.4 A/μs to 25 A/μs | 0.048 A/μs to 3 A/μs | 0.48 A/μs to 30 A/μs | | | | | | |
| Resolution | 4.2 mA/μs | 42 mA/μs | 4.8 mA/μs | 48 mA/μs | 0.01 A/μs | 0.1 A/μs | 0.012 A/μs | 0.12 A/μs | | | | | | |
| Min. Rise Time | 20 μs (typical) | | | | | | | | | | | | | |
| Accuracy | $\pm 5\% \text{ of Setting} \pm 10 \mu s$ | | | | | | | | | | | | | |
| Current | 0 A to 21 A | 21 A to 210 A | 0 A to 24 A | 24 A to 240 A | 0 A to 50 A | 50 A to 500 A | 0 A to 60 A | 60 A to 600 A | | | | | | |
| Resolution | 0.336 mA | 3.36 mA | 0.384 mA | 3.84 mA | 0.875 mA | 8.75 mA | 1 mA | 10 mA | | | | | | |
| Measurement | | | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | | | |
| Range (5 Digital) | 0 V to 60 V | 60 V to 600 V | 0 V to 60 V | 60 V to 600 V | 0 V to 100 V | 100 V to 1000 V | 0 V to 100 V | 100 V to 1000 V | | | | | | |
| Resolution | 1 mV | 10 mV | 1 mV | 10 mV | 1.6 mV | 16 mV | 1.6 mV | 16 mV | | | | | | |
| Accuracy | $\pm 0.025\% \text{ of (Reading + Range)}$ | | | | | | | | | | | | | |
| Current Read Back | | | | | | | | | | | | | | |
| Range (5 Digital) | 0 A to 21 A | 21 A to 210 A | 0 A to 24 A | 24 A to 240 A | 0 A to 50 A | 50 A to 500 A | 0 A to 60 A | 60 A to 600 A | | | | | | |
| Resolution | 0.336 mA | 3.36 mA | 0.384 mA | 3.84 mA | 0.875 mA | 8.75 mA | 1 mA | 10 mA | | | | | | |
| Accuracy | $\pm 0.05\% \text{ of (Reading + Range)}$ | | | | | | | | | | | | | |
| Power Read Back | | | | | | | | | | | | | | |
| Range (5 Digital) | 5 KW | 50 KW | 6 KW | 60 KW | 5 KW | 50 KW | 6 KW | 60 KW | | | | | | |
| Resolution | 0.1 W | 1 W | 0.1 W | 1 W | 0.1 W | 1 W | 0.1 W | 1 W | | | | | | |
| Accuracy *3 | $\pm 0.06\% \text{ of (Reading + Range)}$ | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | |
| Short Circuit | | | | | | | | | | | | | | |
| Current | 210 A | | | 240 A | | | 500 A | 600 A | | | | | | |
| Load ON Voltage | 0.4 V to 100 V | | | 0.4~100V | | | 10.4 V to 200 V | 10.4 V to 200 V | | | | | | |
| Load OFF Voltage | 0 V to 99 V | | | 0~99V | | | 0 V to 198.4 V | 0 V to 198.4 V | | | | | | |
| Operating Range | | | | | | | | | | | | | | |
| Temperature *4 | 0 °C to 40 °C | | | | | | | | | | | | | |
| Humidity | 20 % to 85 % rh | | | | | | | | | | | | | |
| Storage Range | | | | | | | | | | | | | | |
| Temperature | -20 °C to +70 °C | | | | | | | | | | | | | |
| Humidity | <= 90 %rh | | | | | | | | | | | | | |
| Withstanding voltage test | | | | | | | | | | | | | | |
| AC input and FG | AC 1500 V, 1 minute. | | | | | | | | | | | | | |
| AC input and Load terminal | AC 3000 V, 1 minute. | | | | | | | | | | | | | |
| Load terminal and FG | AC 1500 V, 1 minute. | | | | | | | | | | | | | |
| Safety & EMC | CE | | | | | | | | | | | | | |

Note *1 : The range is automatically or forcing to range II only in CC mode

Note *2 : If the operating voltage is higher than 600 V, the accuracy specification is 0.5 % F.S.

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

Note *4: Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C± 5 °C, Except as noted

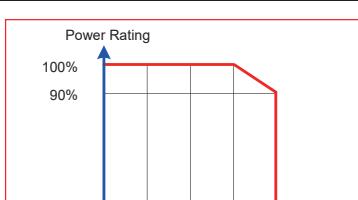
Note *5: 1000 V Model Specifications apply only for load input voltage > 50 V

Note *6 : μS (microsiemens) is the unit of conductance(G), one siemens equal to 1/Ω

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



規格若有局部變更，恕不另行通知！ 36000A_BH1_C_202508

固緯電子實業股份有限公司

新北市土城區中興路 7-1 號
T (02)2268-0389 F (02)2268-0639
E-mail: marketing@goodwill.com.tw

高雄 高雄市前鎮區新衙路286之4號7樓之1
T (07) 831-7317 F (07) 831-7327

固緯電子(蘇州)有限公司

江蘇省蘇州市新區珠江路521號
T 0512-6661-7177 F 0512-6661-7277
E-mail: marketing@instek.com.cn

上海 上海市宜山路 889 號 2 號樓 8 樓
T 021-6485-3399 F 021-5450-0789

深圳 深圳市寶安區航城街道三圍社區泰華梧桐工業園13B棟6樓
T 0755-2919-0632 F 0755-2907-6570

GW INSTEK

Simply Reliable



產品操作影片

最新活動訊息

產品資料/簡易選型/技術諮詢