## SPECIFICATIONS

| | | SPS-1230A | SPS-1820A | SPS-2415A | SPS-3610A | SPS-606A |
|---|---|---|---|---|---|---|
| **OUTPUT RATING** | | | | | | |
| Total Channel | | 1 | | | | |
| Voltage / Current Range | | 0 V to 12 V / 0 A to 30 A | 0 V to 18 V / 0 A to 20 A | 0 V to 24 V / 0 A to 15 A | 0 V to 36 V / 0 A to 10 A | 0 V to 60 V / 0 A to 6 A |
| Total Power | | 360 W | | | | |
| **CONSTANT VOLTAGE OPERATION** | | | | | | |
| Line Regulation *1 | | ≤ 5 mV | | | | |
| Load Regulation *2 | | ≤ 5 mV | | | | |
| Ripple & Noise (5 Hz to 1 MHz) *3 | | ≤ 5 mVrms | | | | |
| Maximum Remote Sensing Compensation Voltage | | 0.5 V | | | | |
| Rising Time *4 | | < 150 ms | | | | |
| Falling Time *5 | | < 150 ms ( > 10 % rating load) | | | | |
| Recovery Time *6 | | ≤ 500 μs (50 % to 100% load change) | | | | |
| Setting Range | | 0 V to 12.50 V | 0 V to 18.50 V | 0 V to 24.50 V | 0 V to 36.50 V | 0 V to 60.50 V |
| Temperature Coefficient | | ≤ 100 ppm/°C | | | | |
| **CONSTANT CURRENT OPERATION** | | | | | | |
| Line Regulation *1 | | ≤ 3 mA | | | | |
| Load Regulation *7 | | ≤ 10 mA | | | | |
| Ripple & Noise | | ≤ 30 mArms | ≤ 10 mArms | ≤ 10 mArms | ≤ 5 mArms | ≤ 3 mArms |
| Setting Range | | 0 A to 30.10 A | 0 A to 20.10 A | 0 A to 15.10 A | 0 A to 10.10 A | 0 A to 6.10 A |
| **RESOLUTION** | | | | | | |
| Voltage | Setting | 10 mV(≦ 36 V) ; 20 mV(> 36 V) | | | | |
| | Readback | 10 mV | | | | |
| Current | Setting | 10 mA | | | | |
| | Readback | 2 mA | 2 mA | 1 mA | 1 mA | 1 mA |
| **METER** | | | | | | |
| Full Scale | Setting | 12.50 V / 30.10 A | 18.50 V / 20.10 A | 24.50 V / 15.10 A | 36.50 V / 10.10 A | 60.50 V / 6.10 A |
| | Readback | 12.50 V / 30.100 A | 18.50 V / 20.100 A | 24.50 V / 15.100 A | 36.50 V / 10.100 A | 60.50 V / 6.100 A |
| Programming | Voltage/Current | 4 digits / 4 digits | | | | |
| Readback Resolution | Voltage/Current | 4 digits / 5 digits | | | | |
| Setting/Readback Accura | Voltage | ± (0.1 % of reading + 30 mV) (≦ 36V) / ± (0.1 % of reading + 60 mV) (> 36V) | | | | |
| | Current | ± (1 % of reading + 30 mA) | ± (0.5 % of reading + 30 mA) | | | |
| **PROTECTION** | | | | | | |
| OVP | Range | 5 % to 105 % of rate output voltage | | | | |
| | Setting Accuracy | ± (1 % of setting + 0.5 V) | | | | |
| | Resolution | 0.1 V | | | | |
| OCP | Range | 5 % to 105 % of rate output voltage | | | | |
| | Setting Accuracy | ± (1 % of setting + 0.3 A) | | | | |
| | Resolution | 0.1 A | | | | |
| Insulation Resistance | | Between chassis and terminal : 20 MΩ or above (DC 500V) | | | | |
| | | Between chassis and DC power cord : 30 MΩ or above (DC 500V) | | | | |
| **ADVANCED FUNCTION** | | | | | | |
| Status Signal Output | Output ON/OFF | Turns on when the output is on | | | | |
| | CV Status | Turns on during CV operation | | | | |
| | CC Status | Turns on during CC operation | | | | |
| | ALM Status | Turns on when an alarm has been activated | | | | |
| | PWR ON Status | Turns on when the power is turned on | | | | |
| **GENERAL SPECIFICATIONS** | | | | | | |
| Display | | 2.4-inch TFT LCD | | | | |
| Interface | | Remote I/O | | | | |
| Operation Environment | | Indoor use, Altitude: ≤ 2000 m; Ambient temperature: 0 °C to 40 °C / Relative humidity: ≤ 80 %; Installation category: II / Pollution degree: 2 | | | | |
| Storage Environment | | Temperature: -10 ˚C to 70 ˚C, Humidity: ≤ 70 % | | | | |
| Power Input | | AC 115 V/230 V ± 15 %, 50 Hz or 60 Hz | | | | |
| Power Consumption | | 900 VA | | | | |
| Dimensions & Weight | | 107 mm x 124 mm x 363 mm (W x H x D), Approx. 3.6 kg | | | | |

Note:
*1. At 97 Vac to 133Vac or 195 Vac or 265Vac, constant load.
*2. From No-load to Full-load, constant input voltage. Measured at the front output terminal.
*3. Measurement frequency bandwidth is 5 Hz to 1 MHz.
*4. From 10 % to 90 % of rated output voltage, with rated resistive load.
*5. From 90 % to 10 % of rated output voltage, with rated resistive load.
*6. Time for output voltage to recover within 0.1 % + 10 mV of its rated output for a load change from 50 % to 100 % of its rated output current.
*7. For load voltage change, equal to the unit voltage rating, constant input voltage.

## ORDERING INFORMATION

| | |
|---|---|
| **SPS-1230A** | 360 W Single Channel Switching Mode DC Power Supply (12 V / 30 A) |
| **SPS-1820A** | 360 W Single Channel Switching Mode DC Power Supply (18 V / 20 A) |
| **SPS-2415A** | 360 W Single Channel Switching Mode DC Power Supply (24 V / 15 A) |
| **SPS-3610A** | 360 W Single Channel Switching Mode DC Power Supply (36 V / 10 A) |
| **SPS-606A** | 360 W Single Channel Switching Mode DC Power Supply (60 V / 6 A) |

ACCESSORIES:

| Standard Type Jack Terminal: | European Type Jack Terminal: |
|---|---|
| Power Cord x 1, Packing List x 1, Test Lead GTL-105A x 1 | Power Cord x 1, Packing List x 1, Test Lead GTL-203A x 1, Test Lead GTL-201A x 1 |

**OPTIONAL ACCESSORIES**

| | |
|---|---|
| **GTL-105A** | Test Lead, U-type to Alligator Test Lead, Max. Current 3 A, 1000 mm |
| **GTL-201A** | Ground Lead, Banana to Banana, European Terminal, 200 mm |
| **GTL-203A** | Test Lead, Banana to Alligator, European Terminal, Max. Current 3 A, 1000 mm |
| **GTL-204A** | Test Lead, Banana to Alligator, European Terminal, Max. Current 10 A, 1000 mm |
| **GRA-441-J** | Rack Mount kit (JIS) |
| **GRA-441-E** | Rack Mount kit (EIA) |