

SCP-2000 Intelligent industrial power supply

Features:

- Input voltage range : 180-264VAC
- Protection: short circuit/over current/over temperature
- Analog voltage control
- Main external switch control

Applications:

- Industrial control or automation equipment
- Laser related machines
- UV curing equipment
- Charging equipment
- Test and measurement instruments
- Aging equipment

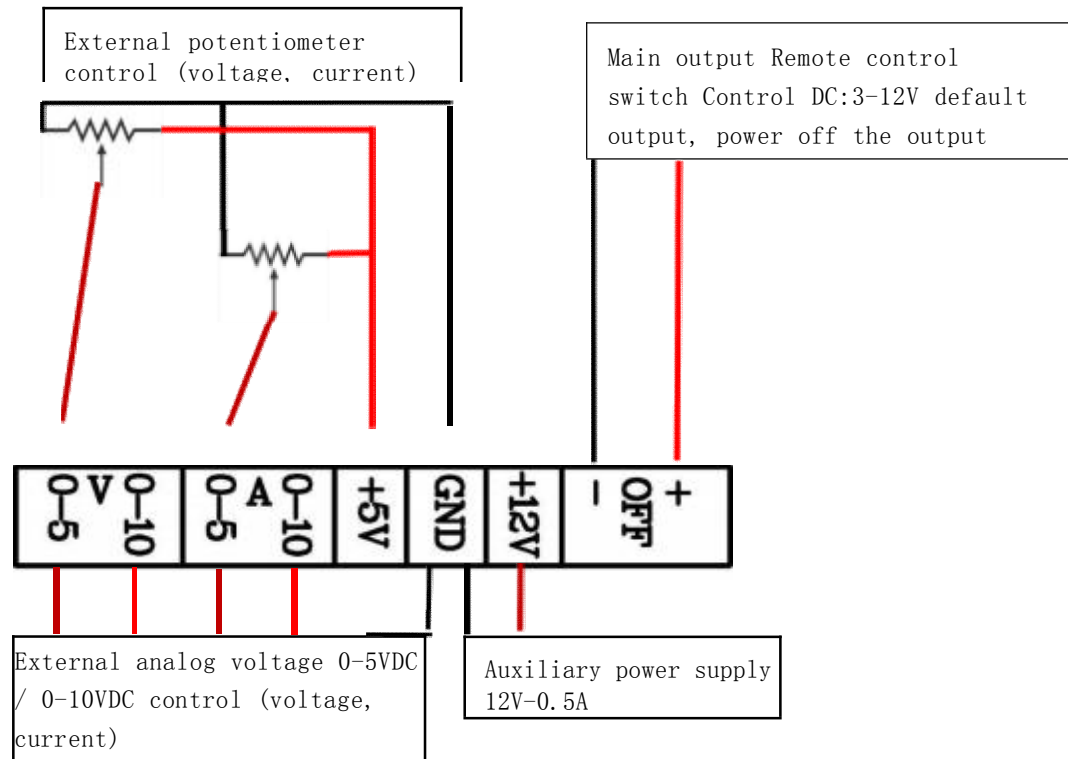
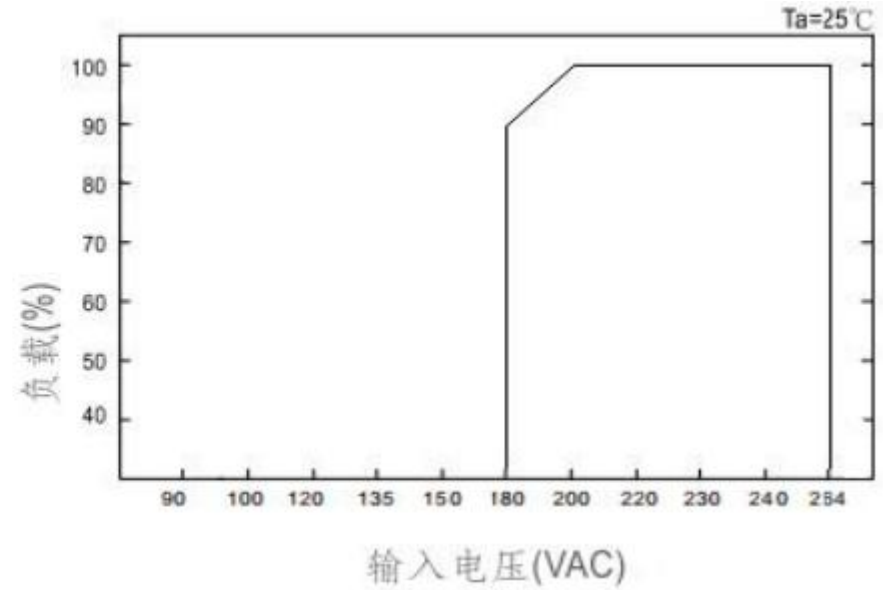
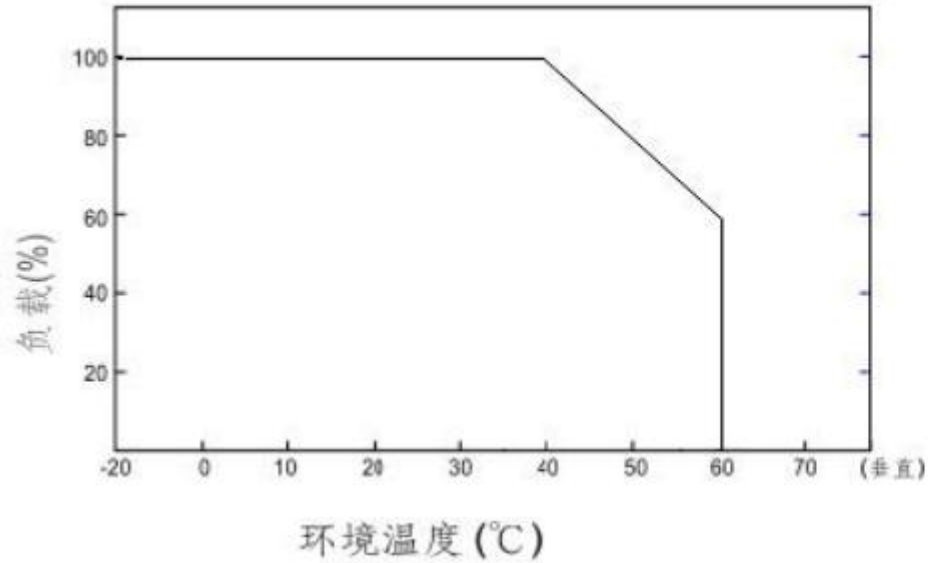
Description:

The SCP-2000 is a 2KW single-output housing type AC to DC/DC to DC power supply. The full range of input voltages is 180-264VAC / 250-370VDC and provides DC outputs to meet most industrial needs. Each model can be cooled by internal speed control fan, operating temperature up to 60° C. Built-in features such as adjustable output voltage, current, remote on/off control, auxiliary power supply and other functions provide a variety of design flexibility.

| Model | | SCP-2000-12 | SCP-2000-24 | SCP-2000-36 | SCP-2000-48 | SCP-2000-72 | SCP-2000-96 | SCP-2000-110 | SCP-2000-150 | SCP-2000-220 | |
|----------------------------|---------------------------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--|
| O U T P U T | DC voltage | 12V | 24V | 36V | 48V | 72V | 96V | 110V | 150V | 220V | |
| | Rated current | 166A | 83.3A | 55.5A | 41.6A | 27.7A | 20.8A | 18.1A | 13.3A | 9A | |
| | Current range | 0 - 166A | 0 - 83.3A | 0 - 55.5A | 0 - 41.6A | 0 - 27.7A | 0 - 20.8A | 0 - 18.1A | 0 - 13.3A | 0 - 9A | |
| | Rated power | 2000W | | | | | | | | | |
| | Ripple & Roise | 200mV | 200mV | 260mV | 350mV | 500mV | 600mV | 850mV | 900mV | 1000mV | |
| | Constant current range | 6 - 12V | 12 - 24V | 18 - 36V | 24 - 48V | 36 - 72V | 48 - 96V | 55 - 110V | 75 - 150V | 110 - 220V | |
| | Voltage tolerance | ± 1.0% | | | | | | | | | |
| | Line regulation | ± 1.0% | | | | | | | | | |
| | Load regulation | ± 1.0% | | | | | | | | | |
| Setup risetime | 1500mS, 100mS/230VAC(Full load) | | | | | | | | | | |
| I N P U T | Voltage range | 180 - 264VAC / 245 - 370VDC | | | | | | | | | |
| | Frequency range | 45Hz - 65Hz | | | | | | | | | |
| | Power factor | PF ≥ 0.65/230VAC(Full load) | | | | | | | | | |
| | Efficiency | 85 % | 86 % | 87 % | 89 % | 90 % | 90 % | 90 % | 91 % | 91 % | |
| | AC Current | < 20A | | | | | | | | | |
| | Leakage current | < 3.0mA / 240VAC | | | | | | | | | |

| | | | | | | | | | | |
|--------------------------------------|--|--|-----------|-----------|-----------|-----------|------------|-----------|-----------|----------|
| PRO TEC TION | Short circuit | Entry constant current | | | | | | | | |
| | Over temperature | Turn off the output and automatically recover or restart after the temperature drops | | | | | | | | |
| F U N C T I O N | Output voltage adjustment | 0 - 13.2V | 0 - 26.4V | 0 - 39.6V | 0 - 52.8V | 0 - 79.2V | 0 - 105.6V | 0 - 121V | 0 - 165V | 0 - 242V |
| | Output constant current adjustment | 0 - 166A | 0 - 83.3A | 0 - 55.5A | 0 - 41.6A | 0 - 27.7A | 0 - 20.8A | 0 - 18.1A | 0 - 13.3A | 0 - 9A |
| | External potentiometer | External potentiometer control (voltage, current) | | | | | | | | |
| | Analog voltage control | 0 - 5V / 0 - 10V control (voltage, current) | | | | | | | | |
| | Auxiliary power supply | 12V 0.5A | | | | | | | | |
| | Remote control switch | Default power on, high power off (3V-12V) | | | | | | | | |
| EN VIR ON ME NT | Working TEMP. | -20 - +60°C | | | | | | | | |
| | Working humidity | -20 - 90% RH non-condensing | | | | | | | | |
| | Storage TEMP. and humidity | -40 - +85°C, 10 - 95% RH non-condensing | | | | | | | | |
| | Vibration resistance | 10 - 500Hz, 2G 10mins/T, X, Y, Z axis 60 minutes each | | | | | | | | |
| SA FE TY &EM C | Isolation resistance | input-output:100Mhms/500VDC/25°C/70%RH | | | | | | | | |
| | Withstand voltage | I/P-O/P :1.2KVAC I/P-FG:1.2KVAC O/P-FG:0.5KVAC | | | | | | | | |
| OT HE RS | Dimension | 277*155*70mm (L*W*H) | | | | | | | | |
| | Net weight | 2.6 KG | | | | | | | | |
| N O T E | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. If the input voltage is low, the output needs to be derated. For details, see the static characteristic diagram.</p> <p>5. Length of setup time is measured at cold first start, Turning ON/OFF the power supply may lead to increase of the setup time.</p> | | | | | | | | | |

Static characteristic



Installation dimension drawing:

