



Yangzhou IdealTek Electronics Co., Ltd.

Address: #343, No. 8 Wenchang Middle Road, Guangling District, Yangzhou, Jiangsu, China.

Tel: +86 – 514 – 87922965 Fax: +86 – 514 – 87922965

Website: www.idealtek.cn Email: sales@idealtek.cn

Ideal Power Solution

SMP 3000 Series Benchtop DC Power Supply

- Power range: 200 ~ 1.5KW
- Voltage range: 6 ~ 600V
- Current range: 1 ~ 50A
- 205*165*380 portable chassis
- Precise voltage and current setting and measurement capabilities
- OVP, OCP, OTP protections etc.
- CE certified



Overview

SMP3000 series DC power supplies are an economical, high-switching speed, high-power density desktop laboratory DC power supply based on MOSFETs. It adopts single-phase 220Vac input with designed output power 1.5KW and output voltage range from 6Vdc to 600Vdc.

SMP3000 DC power supply is a constant voltage and constant current adjustable DC power supply with low ripple. High-precision, high-efficiency electronic characteristics. It adopts small and

compact design. The output voltage and output current of the power supply can be adjusted separately through the knobs on the front panel and the independent LED voltage and current meters can display the output voltage and current value separately.

The DC power supplies are equipped with over-current limiting and over-temperature protection, and are mainly used for LED testing, small precision electroplating, and electrical equipment testing and maintenance purposes.

Features

- Max. Output power reaches 1500W.
- CV / CC working modes, automatic switchable between two modes.
- Voltage & Current continuously adjustable, 10-turn potentiometer setting.
- Output voltage & current LED display.
- Intelligent fan cooling, withstand continuous working.
- Adaptability to continuous or dynamic loads.
- Automatic shutdown for over heat.
- 205*165*380 portable housing.
- Low ripple and noise.

Applications

- Products burn-in test, such as DC motors, DC fans, vehicle DVD, vehicle AUDIO, resistors and capacitors etc.

- LED, motors and DC fans test.
- Accumulator charging.
- Labs and universities.
- Small electrolysis or electroplating system.
- Other conditions need stable DC output

Optional functions

- Analog control port via external 0 ~ 5V / 0 ~ 10V or 4mA ~ 20mA signal.
- RS485 communication port

Front & Back Panel instruction





Specifications

| | | | |
|-------------------|--------------------------------------|--|--|
| Input | Voltage | Single - phase 220V±10% | |
| | Frequency | 50Hz/60Hz | |
| Output | Rated power | * kW | |
| | Output voltage | Adjusting | 0V ~ ***V |
| | | Line regulation | < 0.05%±20mV (Stability @ ±10% Δ UIN) |
| | | Load regulation | < 0.08%±20mV (Stability @ 10% ~ 90% load variance) |
| | | Ripple | 500mV (RMS) |
| | Response time | < 5mS (Regulation rate @ 10% ~ 100% load variance) | |
| | Output current | Adjusting | 0A ~ **A |
| | | Line regulation | < 0.2% (Stability @ ±10% Δ UIN) |
| Load regulation | | < 0.08% (Stability @ 0 ~ 100% Δ UOUT) | |
| Ripple | | 500mA (RMS) | |
| Setting & Display | Control mode | Front panel button control | |
| | Display mode | LED digital display | |
| Protection & | Output over current protection (OCP) | Power supply automatically CC working and alarms when the output has over current. | |

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|-----------------------------|-----------------------------------|---|
| Monitoring functions | Over temperature protection (OTP) | Power supply automatically cuts off output and alarms when the internal temperature of the power supply |
| Noise | | ≤55dB |
| Protection degree | | IP20 |
| Cooling method | | Forced air cooling |
| Working conditions | Ambient temperature | 0°C ~ 45°C |
| | Humidity | 10% ~ 90%(non-condensing) |
| | Height | ≤2000m |
| Size (W*H*D) (mm) | | 205*165*380 (handle excluded) |
| Weight | | Approx. 6 ~ 8Kg |

Model list

| Model | Output | | Dimension (W*H*D) (mm) | Packing |
|---------|--------|-------|------------------------|---------|
| SMP3063 | 6.0V | 30.0A | 205*165*380 | Carton |
| SMP3064 | | 40.0A | 205*165*380 | Carton |
| SMP3183 | 18.0V | 30.0A | 205*165*380 | Carton |
| SMP3184 | | 40.0A | 205*165*380 | Carton |
| SMP3185 | | 50.0A | 205*165*380 | Carton |
| SMP3302 | 30.0V | 20.0A | 205*165*380 | Carton |
| SMP3303 | | 30.0A | 205*165*380 | Carton |
| SMP3304 | | 40.0A | 205*165*380 | Carton |
| SMP3305 | | 50.0A | 205*165*380 | Carton |
| SMP3362 | 36.0V | 20.0A | 205*165*380 | Carton |
| SMP3363 | | 30.0A | 205*165*380 | Carton |
| SMP3364 | | 40.0A | 205*165*380 | Carton |
| SMP3515 | 50.0V | 15.0A | 205*165*380 | Carton |
| SMP3502 | | 20.0A | 205*165*380 | Carton |
| SMP3503 | | 30.0A | 205*165*380 | Carton |
| SMP3504 | | 40.0A | 205*165*380 | Carton |
| SMP3602 | 60.0V | 20.0A | 205*165*380 | Carton |
| SMP3603 | | 30.0A | 205*165*380 | Carton |

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|----------|--------|--------|-------------|-------------|
| SMP3604 | | 40.0A | 205*165*380 | Carton |
| SMP31002 | 100.0V | 2.0A | 205*165*380 | Carton |
| SMP31004 | | 4.0A | 205*165*380 | Carton |
| SMP31006 | | 6.0A | 205*165*380 | Carton |
| SMP31008 | | 8.0A | 205*165*380 | Carton |
| SMP31E10 | | 10.0A | 205*165*380 | Carton |
| SMP31E15 | | 15.0A | 205*165*380 | Carton |
| SMP32002 | | 200.0V | 2.0A | 205*165*380 |
| SMP32003 | 3.0A | | 205*165*380 | Carton |
| SMP32004 | 4.0A | | 205*165*380 | Carton |
| SMP32005 | 5.0A | | 205*165*380 | Carton |
| SMP32006 | 6.0A | | 205*165*380 | Carton |
| SMP32007 | 7.0A | | 205*165*380 | Carton |
| SMP32501 | 250.0V | | 1.0A | 205*165*380 |
| SMP32502 | | 2.0A | 205*165*380 | Carton |
| SMP32503 | | 3.0A | 205*165*380 | Carton |
| SMP32504 | | 4.0A | 205*165*380 | Carton |
| SMP32505 | | 5.0A | 205*165*380 | Carton |
| SMP33001 | 300.0V | 1.0A | 205*165*380 | Carton |
| SMP33002 | | 2.0A | 205*165*380 | Carton |
| SMP33003 | | 3.0A | 205*165*380 | Carton |
| SMP33004 | | 4.0A | 205*165*380 | Carton |
| SMP33005 | | 5.0A | 205*165*380 | Carton |
| SMP34001 | 400.0V | 1.0A | 205*165*380 | Carton |
| SMP34002 | | 2.0A | 205*165*380 | Carton |
| SMP34003 | | 3.0A | 205*165*380 | Carton |
| SMP34004 | | 4.0A | 205*165*380 | Carton |
| SMP35001 | 500.0V | 1.0A | 205*165*380 | Carton |
| SMP35002 | | 2.0A | 205*165*380 | Carton |
| SMP35003 | | 3.0A | 205*165*380 | Carton |

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|----------|--------|------|-------------|--------|
| SMP36001 | 600.0V | 1.0A | 205*165*380 | Carton |
| SMP36002 | | 2.0A | 205*165*380 | Carton |
| SMP37001 | 700.0V | 1.0A | 205*165*380 | Carton |
| SMP37002 | | 2.0A | 205*165*380 | Carton |

More models are coming soon. 😊