3KW High Precision Rack Mount DC Power Supply

$750 1-7 Piece/Pieces

$875 8-31 Piece/Pieces

Min. Order: 3 Piece/Pieces

Transportation: Ocean,Land,Air,Express

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Product Description

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Overview

Product Attributes

Model No.	: SMP4000	Brand	: IDEALTEKNC
place of origin	: China	Output Power	: >500w
Output type	: Single	Input Frequ Output Power	: 50Hz
Input Voltage	: Single-Phase 220vac	Power Factor	: ≤ 0.85
Power supply type	: Mosfet-Based	Working Principle	: Pwm
Working Mode	: Constant Voltage / Constant Current	Control mode	: Knob
Display Mode	: Digital Led	Protections	: Ocp, Ovp
Applications	: Lab Test / Led Test / Battery Charging / Aging Test	Certifications	: Ce, Rohs
Cooling	: Forced Air Cooling		

Supply Ability & Additional Information

Packaging	: Plywood case	Productivity	: 300pcs / month
Transportation	: Ocean,Land,Air,Express	Place of Origin	: China
Supply Ability	: 300pcs / month	Certificate	: CE / RoHs
HS Code	: 85044019		

Packaging & Delivery

Selling Units: Piece/Pieces

Package Type: Plywood case

SMP4000 Series Benchtop DC Power Supply

Overview

SMP4000 series rack DC Power Supplies are high-frequency DC switching Power Supplies based on MOSFETs. Compared with IGBT-based DC Switching Power Supplies, MOSFET-based switching power supplies have a higher switching frequency, so this series of Rack-mounted DC Power Supplies are featured for low ripple, high precision, and fast response characteristics with smaller chassis by using smaller semiconductor devices and LC filter units. Making this series of Rack Mount DC Power Supplies have higher power density.

The main design purpose of the SMP4000 series DC power supplies is to support the small test system requiring miniaturization, high power density, and suitable for rack mounted DC power supply requirements. The power supply adopts a 19-inch standard rack-mounted cabinet, adopts single-phase 220Vac input with designed output power at 3KW, output voltage range 6Vdc to 700Vdc, mainly used in LED testing, small electroplating, new material heating, electrical component testing and other applications.

This series of DC power supplies can add RS485, 0-10V analog quantity or 24V interlock loop to realize system integration control and monitoring.

Smp4000 Benchtop Dc Power Supply Front View

Features

- Max. Output power reaches 3000W.
- 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.
- 434*100*400 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.

Front & Back Panel instruction

Specifications

Input	Voltage		Single - phase 220V±10%
	Frequency		50Hz-60Hz
	Rated power		* kW
Output	Output voltage	Adjusting range	0V – ***V
		Line regulation	< 0.05%±20mV (Stability @ ±10% Δ UIN)
		Load regulation	< 0.08%±20mV (Stability @ 10% ~ 90% load variance)
		Ripple	50mV (RMS)
		Response time	< 5mS (Regulation rate @ 10% ~ 100% load variance)
	Output current	Adjusting range	0A – ***A
		Line regulation	< 0.2% (Stability @ ±10% Δ UIN)
		Load regulation	< 0.08% (Stability @ 0 – 100% Δ UOUT)
		Ripple	50mA (RMS)
Voltage & Current Display	Control mode		Front panel button control
	Display mode		LED digital display
Protection & Monitoring Function	Output over current protection (OCP)		Power supply automatically CC working and alarms when the output has over current.
	Over temperature protection (OTP)		Power supply automatically cuts off output and alarms when the internal temperature of the power supply exceeds 85 °C
Noise			≤75dB
Protection degree			IP20
Cooling method			Forced air cooling
Working environment	Ambient temperature		0°C ~ 45°C
	Humidity		10% ~ 80%(non-condensing)
	Height		≤2000m
Size (W*D*H) (mm)			434*110*400 (handle excluded)
Weight			Approx. 13Kg

Model List

Model	Output		Dimension (W*D*H)(mm)	Package
SMP4006A	6.0V	60.0A	434*110*400	Plywood case
SMP4006B		80.0A	434*110*400	Plywood case
SMP4006C		100.0A	434*110*400	Plywood case
SMP4018A	18.0V	40.0A	434*110*400	Plywood case
SMP4018B		80.0A	434*110*400	Plywood case
SMP4018C		100.0A	434*110*400	Plywood case
SMP4030A	30.0V	60.0A	434*110*400	Plywood case
SMP4030B		70.0A	434*110*400	Plywood case
SMP4030C		80.0A	434*110*400	Plywood case
SMP4030D		90.0A	434*110*400	Plywood case
SMP4036A	36.0V	60.0A	434*110*400	Plywood case
SMP4036B		70.0A	434*110*400	Plywood case
SMP4036C		80.0A	434*110*400	Plywood case
SMP4050A	50.0V	50.0A	434*110*400	Plywood case
SMP4050B		60.0A	434*110*400	Plywood case
SMP4060A	60.0V	50.0A	434*110*400	Plywood case
SMP4100A	100.0V	15.0A	434*110*400	Plywood case
SMP4100B		20.0A	434*110*400	Plywood case
SMP4200A	200.0V	8.0A	434*110*400	Plywood case
SMP4200B		10.0A	434*110*400	Plywood case
SMP4250A	250.0V	5.0A	434*110*400	Plywood case
SMP4250B		6.0A	434*110*400	Plywood case
SMP4250C		8.0A	434*110*400	Plywood case
SMP4400A	400.0V	5.0A	434*110*400	Plywood case
SMP4400B		6.0A	434*110*400	Plywood case
SMP4500A	500.0V	4.0A	434*110*400	Plywood case
SMP4500B		5.0A	434*110*400	Plywood case
SMP4600A	600.0V	3.0A	434*110*400	Plywood case
SMP4600B		4.0A	434*110*400	Plywood case
SMP4700A	700.0V	3.0A	434*110*400	Plywood case

More models are coming soon.

Options

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