PS5000 Power Supply



Benefits

- Quiet operation
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine & other rugged environments
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- · Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- · Field Work / Construction Sites
- · Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- · Product Burn-in Facilities

Power Supplies

PS5000 Series 5000VA

Description

The PS5000 Series AC/DC power supply utilizes field-proven topology to deliver 5000W output power.

The compact chassis size is 11.5"x 5.25"x 18".

This rugged, fan-cooled power supply is rated for operation at full power from 0°C to 50°C without derating, with an extended temperature range available.

The modules are ruggedized and conformal coated for operation in extreme environments.

The modular construction of the unit allows for easy customizing. The unit features full electronic protection and low output noise.

This design is optimized for low component count and high efficiency.

The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality controls.

Custom versions are also available.

Features

- Robust Industrial quality
- Compact modular construction
- · Flexible design for customizing
- · Telecom quality & Industrial Grade
- Fan cooling
- · Full electronic protection
- Field-proven design topology
- Single phase 240Vac input
- 2 years parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Input Voltage	240VAC, range (180-264VAC) +/-15% 47-63Hz or 250VDC (220 - 350VDC range)
Input Protection	Inrush current limiting Varistors Internal safety fuses Lower voltage than the specified minimum input will not damage the unit
Input Isolation	2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis
Output Voltages	24V/200A, 48V/100A, 125V/40A or 250V/20A Consult factory for other voltages
Switching Frequency	55KHz +/- 3KHz
Redundancy Diode	Available on request
Hold Up Time	Minimum 5ms at full load for 5% drop of output voltage @ 240V nominal input
Line/Load Regulation	+/-1% combined from zero load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, better than 1 msec recovery time
Output Overvoltage Protection	Double regulator loop completely stable and independent of main loop
Output Overload Protection	Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow
Efficiency	Min 80% at full load
EMI	Meets EN 55022 Class B
Output Ripple/Noise	Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)
Operating Temperature	0 to +50°C for full specification Extended operating temperature range available
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Forced air by built-in fans. Fans draw air into the unit, air exits at the rear.
Environmental Protection	Ruggedizing Conformal coating
Shock/Vibration	Designed to meet requirements of IEC 61373 Cat 1 A&B
MTBF	Min. 100,000 hours @45°C (fan are not included)
Indicators	None
Control Input	None (Remote SD as option)
Alarm Output	None on the standard version (Module fail alarm available as option)
Connections	Input: Phoenix G10/2 terminal block Output: ¼" brass studs
Dimensions (W x H x L)	291 x 57.2 x 457.2 mm (11.5" x 5.25" x 18")
Weight	13.6 kg (30 lbs.)
RoHS Compliance	Fully compliant
Safety	Designed to meet EN60950 and corresponding UL and CSA standards
Warranty	2 years

Available from:







The power conversion company

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