

PSP1000 Series AC Power Supply



Benefits

- Active Powerfactor Correction (PFC)
- 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

PSP1000 Series 1000W

Description

The PSP1000 Series is a compact AC/DC converter with power factor corrected input.

It uses established design techniques to ensure high reliability.

Suitable for a wide range of applications, the PSP1000 features full electronic protection, high efficiency and low output noise.

The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature.

The chassis has four M6 PEM nuts for mounting on the bottom surface.

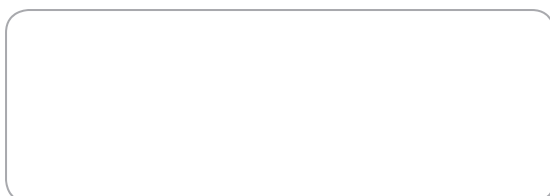
Features

- Adjustable output
- 1000W output power
- Full electronic protection
- Inrush current limiting
- Output Overload Protection
- Output Over-voltage Protection
- Short-circuit protection
- Over-temperature shutdown (self resetting)
- Extremely rugged and well suited for marine and other demanding environments
- Telecom quality
- Field-proven design topology
- 2 years parts and labour warranty

Specifications (Specifications Subject to Change Without Notice)

Input Voltage range	Universal 95 ... 264VAC, 47 - 63Hz Input current 13A max at 95V
Input Protection	Inrush current limiting Varistors Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Power Factor	Min. 0.95 at full load for the entire input range
Isolation	2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis
Switching Frequency	55KHz +/-3KHz
Hold Up Time	Min. 10ms at any input for 5% drop of output voltage
Output Voltages	12V/75A; 24V/40A; 48V/20A; are standard +/-5% adjustable Output is floating, either terminal can be grounded Consult factory for other voltages
Redundancy Diode	Optional
Line / Load Regulation	± 1% combined from no load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Overvoltage Protection	Double regulator loop
Output Overload Protection	Rectangular current limiting with short-circuit protection Thermal shutdown in case of insufficient cooling (self resetting)
Efficiency	Min. 80% at full load
EMI	Meets and EN 55022 Class A with wide margins
Output Ripple/Noise	Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)
Operating Temperature Range	0 to 50°C
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Forced air by internal fan
Environmental Protection	Basic ruggedizing
Humidity	5 – 95% non-condensing
MTBF	100'000 at 45°C (fans excluded)
Indicators	None
Control Input	None
Alarm Output	None , Optional
Connections	Terminal blocks
Dimensions	12.7 x 12.7 x 30.5 cm
Weight	5.2 kg
Standards	Compliance to EN60950 and related standards Please consult factory for approval status for the requested input/output configuration
RoHS Compliance	According to requirements
Warranty	2 years

Available from:



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The power conversion company

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