

# PS1000 Series Power Supply



## Benefits

- Ultra-Quiet
- 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

## PS1000 Series 1000W

### Description

The PS1000 series AC/DC is a heavy-duty power supply that utilizes field-proven full-bridge topology to deliver up to 1000W depending on output voltage.

This power supply is rated for operation at full power from 0°C to 50°C without de-rating.

Additional ruggedizing and conformal coating are available for operation in extreme environments.

The unit features full electronic protection and low output noise.

This chassis-mount 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. Customized versions are also available.

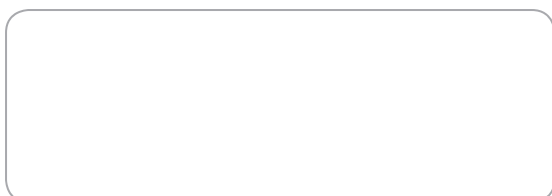
### Features

- Compact size
- 1000W output power
- Full electronic protection
- Field-proven design topology
- Single phase input
- Conduction/convection cooling, no fan
- 2 years parts and labour warranty

# Specifications ( Specifications Subject to Change Without Notice)

<b>Input Voltage</b>	115/230VAC $\pm$ 15%; 47-63Hz 250VDC (190 – 370V) Voltage selection by internal jumper Other voltages on request
<b>Input Protection</b>	Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
<b>Input Isolation</b>	2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis
<b>Output Voltages</b>	24V/38A, 28V/32A, 48V/21A, 56V/18A or 125V/8A Other outputs on request
<b>Switching Frequency</b>	55KHz +/- 3KHz
<b>Redundancy Diode</b>	None Available as option on outputs 48V and higher
<b>Hold Up Time</b>	Minimum 10ms at full load for 5% drop of output voltage at nominal input
<b>Line/Load Regulation</b>	+/-1% combined
<b>Dynamic Response</b>	Max 5% voltage deviation for 10% to 50% load step; better than 1msec recovery time
<b>Output Overvoltage Protection</b>	Double regulator loop
<b>Output Overload Protection</b>	Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow
<b>Efficiency</b>	Min 80% at full load
<b>EMI</b>	EN 55022 Class A as a minimum
<b>Output Ripple/Noise</b>	Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)
<b>Operating Temperature</b>	0 to +50°C for full specification
<b>Temperature Drift</b>	0.03% per °C over operating temperature range
<b>Cooling</b>	Conduction via base plate to customer chassis or heatsink and additional natural air convection through cooling slots
<b>Environmental Protection</b>	Basic ruggedizing Heavy ruggedizing and conformal coating as option
<b>MTBF</b>	Min. 160,000 hours @45°C
<b>Indicators</b>	None
<b>Alarm Outputs</b>	None
<b>Connections</b>	Input: Barrier-type terminal block, 3/8" spacing Output: 1/4" DIA brass studs
<b>Dimensions</b>	F6: 210 x 66 x 351 mm; including terminals and mounting flanges Mounting holes are clear
<b>Weight</b>	3.2kg
<b>RoHS Compliance</b>	Fully compliant
<b>Safety</b>	Designed to meet EN 60950 and corresponding CSA and UL standards
<b>Warranty</b>	2 years

Available from:



## RIPEnergy®

The power conversion company

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