



## PSP200 POWER SUPPLY

### SERIES PSP200

This rugged, industrial quality plug-in converter utilizes field-proven technology to generate the required output power.

It is a mature design with a track record in numerous applications.

An optional built-in redundancy diode allows parallel connection to achieve higher output power or N+1 redundant operation.

Cooling is by conduction via baseplate. Additional cooling is achieved by natural convection through the cooling slots.

All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate.

This also provides exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants.

The input and output are filtered for low noise.

Full electronic protection, low component count, large design headroom and the exclusive use of components with established reliability contribute to a high MTBF.

The unit is manufactured at our plant under strict quality control.

This series is also available in Eurocard plug-in format for rack-mount applications.

Customized versions are also available.



High frequency technology



Light weight, compact size



Full electronic protection



Optional Extended temperature range



Output fail alarm (Form C)

### APPLICATIONS

- Marine / Automotive / RV
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

### FEATURES

- 200W output power
- Rugged industrial quality
- Inrush current limiting
- Over-temperature shutdown (self resetting)
- Field-proven design
- Conduction cooling
- Full electronic protection
- Optional N+1 redundancy

# SPECIFICATIONS

Input Voltage	90-264Vac, 47... 63Hz Input current 2.6A max at 90V Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2
Input Protection	Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Isolation	2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis
Switching Frequency	50-150KHz input section (load dependent) 55 KHz output section
Hold Up Time	Min. 10ms at any input for 5% drop in the output voltage
Output Voltage	12V/16A, 24V/8A, 48V/4A, 110/1.8A or 125V/1.6A 200W continuous The output is floating, either terminal can be grounded Other outputs on request
Output Separation Diode	Not installed. Available as option
Load/Line Regulation	± 1% combined from zero load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Ripple Noise	Less than 1% peak-to-peak or 0.2% RMS of the output voltage (20MHz BW)
Efficiency	Output voltage dependent Typically 80% at full load
Output Overload Protection	Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)
Output Overvoltage Protection	Second regulator loop
Standards	Designed to meet corresponding UL and CSA standards, EN 60950-1, EN 62368-1 and CE
EMI	EN55032 Class A with margins

Operating Temperature	0 to +50°C cold plate temperature for full specification without derating Extended temperature range available
Humidity	5 - 95% non-condensing
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Conduction to customer heat-sink or chassis and natural convection
Environmental Protection	Ruggedizing Conformal coating
Shock/Vibration	IEC 61373 Cat 1 A&B
Dimensions	F2: 114 x 58 x 256 mm including mounting flanges and terminals
Weight	1.2 Kg
Connections	9-pole barrier type terminal block with 3/8" spacing
MTBF	150,000 hours at 45°C Demonstrated MTBF is significantly higher
Indicators	Green "Output ON" LED visible through the cooling slots
Control Input	None
Alarm output	None on standard version Available as an option
RoHS Compliance	Fully compliant
Warranty	2 years

