

PSD162 Series Power Supply



Benefits

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

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

Power Supplies

PSD162 Dual-Output Power Supply

Description

The PSD162 Series rugged, dual output AC/DC industrial quality power supply uses field-proven technology to deliver 150W output power.

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

Cooling is by conduction via baseplate to a heatsinking surface and by natural convection for the stand-alone version.

The unit has full electronic protection.

Low component count, large design headroom, and the use of components with established reliability result in a high MTBF.

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

An optional built-in redundancy diode allows for parallel and N+1 operation.

The PSD162 is manufactured at our plant under strict quality control.

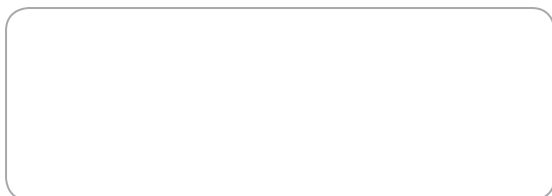
Features

- Compact size
- Dual output
- 150W output power
- N+1 redundancy available
- 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)

Input Voltage range	95V to 264Vac 47 - 420Hz DC-input also available. Please consult factory.
Input Protection	Inrush current limiting Varistor Internal safety fuse Lower voltage than specified minimum input will not damage the unit
Isolation	2250Vdc input to chassis 4300Vdc input to output 8mm spacing 500Vdc output to chassis
Output Voltages	$\pm 12/6A$; $\pm 24/3A$; $\pm 48V/1.5A$ each main output adjustable, other output tracking
Redundancy Diode	Built-in redundancy diode available as option.
Line / Load Regulation	$\pm 1\%$ from no load to full load. $\pm 5\%$ from 10% to full load for other output with constant load on the main output.
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Overvoltage Protection	Double regulator loop on both outputs
Output Overload Protection	Rectangular current limiting with hiccup mode short-circuit protection on both outputs Thermal shutdown in case of insufficient cooling (self resetting)
Efficiency	Output voltage dependent. Typically 80% at full load
EMI	EN55022 Class A as a minimum
Switching Frequency	47kHz +/- 2kHz
Hold Up Time	Minimum 5ms at full load for 5% drop of output voltage at 120Vac and higher input
Output Ripple/Noise	Less 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 installed on heat-sinking surface with good air flow Extended temperature ranges available
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Stand alone version: conduction via base plate and convection Plug-in version: convection only
Environmental Protection	Basic ruggedizing Full ruggedizing and conformal coating available as an option
Humidity	5 – 95% non-condensing
MTBF	150,000 hours @ 45°C Demonstrated MTBF is significantly higher
Indicators	None on standard version
Control Input	None
Alarm Outputs	None on standard version Available as option
Packaging / Connections	Open PCB version: PCB size 100mm x160mm Connector: H15 DIN or barrier-type terminal block Weight: 0.384 kg Enclosed case version (F1): 114 x 51 x 201 mm (W x H x L) including terminal block and flanges Connector: barrier-type terminal block Weight: 0.8 kg Plug-in (Eurocard) Module (E1): 3U x 160mm x 10HP (H x D x W) Connector: H15 DIN
Standards	Designed to meet EN 60950 and corresponding UL and CSA standards
RoHS Compliance	Fully compliant
Warranty	2 years

Available from:



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The power conversion company

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