

180W, Rugged, AC/DC Industrial Power Supply EOL 59 Series

- Rugged construction
- Industrial quality
- Single regulated and adjustable output
- 180W output power
- Full electronic protection
- Field-proven design
- Also available as plug-in module
- N+1 redundancy available
- Competitively priced



The EOL 59 Series AC/DC power supply uses a field proven high frequency push-pull topology to generate 180W output power. The EOL 59 is ruggedly constructed to ensure long operating life in demanding environments. The chassis-mount design features low component count and high efficiency. Cooling is by convection/conduction. The use of high quality components, large design headroom and rigorous quality control ensure outstanding reliability. The demonstrated MTBF exceeds 1,000,000 hours confirmed by a track record established in hundreds of applications. The EOL 59 is also available in Eurocard plug-in format.

SPECIFICATIONS

Input Voltage 115/230Vac +/- 15% 47 - 63Hz Voltage selection by internal jumper	Output Voltage/Current 12V/16A; 24V/8A or 48V/4A are standard Consult factory for other voltages	Efficiency Output voltage dependent . Typically 80% at full load	Control Input None
Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Redundancy Diode None. Available as option on customized designs	Operating Temperature Range 0 to +50 °C for full specification, Extended temp. range available	Alarm Output None on standard version
Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis	Line/Load Regulation +/- 1% combined from zero load to full load	Temperature Drift 0.03% per °C over operating temperature range	Dimensions Enclosed: F1: 112.5 x 50.8 x 201 mm (4.43" x 2" x 7.91") including terminal block and flanges Plug-in module: 3U x 160mm x 12HP
Standards Designed to meet EN 60950 and corresponding UL and CSA standards	Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time	Cooling Convection and conduction cooling via a base-plate	Weight 0.8kg (1.7lb) for enclosed version
EMI EN55022 Class A as a minimum	Output Ripple / Noise Less than 1% peak to peak or 0.2%rms of the output voltage (20MHZ BW)	Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating as option	Connections F1 enclosed: 9-pole barrier type terminal block with 3/8" spacing Plug-in module: H15 DIN connector
Switching Frequency 55 KHz +/-3KHz	Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)	MTBF 200,000 hours @ 45 °C (calculated) Demonstrated MTBF exceeds 1,000,000 hours at typical operating temperatures	RoHS Compliance Fully compliant
Hold Up Time Min. 5ms at full load for 5% drop of the output voltage	Output Over-voltage Protection Second regulator loop, completely stable and independent of main regulator loop	Indicators Only on plug-in version	Warranty Two years subject to application within good engineering practice.



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