

## 250W, Rugged, AC/DC Industrial Power Supply OLC 59-FT Series

- Rugged industrial quality
- Field-proven design
- Single regulated and adjustable output
- Conduction/convection cooled
- Full electronic protection



The OLC 59 Series rugged, industrial quality AC/DC converter uses a field proven topology to generate 250W output power. It is a mature design with a track record in hundreds of applications. The series has large design headrooms and is rated for operation over a wide temperature range without derating. It is cooled by conduction via baseplate to a heatsinking surface and by natural convection. Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration, humidity, moisture, dust and insects. The use of components with established reliability results in a high demonstrated MTBF. The OLC 59 is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<b>Input Voltage</b> 115/230VAC $\pm$ 15% 47-420Hz Auto-ranging available Consult factory for other voltages	<b>Output Voltage/Current</b> 12V/20A, 24V/10 or 48V/5A are standard Consult factory for other voltages	<b>Efficiency</b> Min. 83% at full load	<b>Control Input</b> None
<b>Input Protection</b> Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	<b>Redundancy Diode</b> None	<b>Operating Temperature Range</b> 0 to 50°C for full specification installed on heat-sinking surface with good air flow	<b>Alarm Output</b> None on standard version
<b>Isolation</b> 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis	<b>Line/Load Regulation</b> $\pm$ 1% combined from zero load to full load	<b>Temperature Drift</b> 0.03% per °C over operating temperature range.	<b>Package/Dimensions (W x H x L)</b> F1: 112.5 x 51 x 201 mm (4.4" x 2" x 7.9") including terminal block and flanges Mounting holes are clear
<b>Standards</b> Designed to meet EN60950 and related corresponding UL and CSA standards	<b>Dynamic Response</b> Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time	<b>Cooling</b> Conduction to customer heatsink or chassis and natural convection	<b>Weight</b> 0.8kg (1.7lb)
<b>EMI</b> EN55022 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>Environmental Protection</b> Basic ruggedizing Full ruggedizing and conformal coating as option	<b>Connections</b> 9-pole barrier type terminal block with 3/8" spacing
<b>Switching Frequency</b> 55 KHz +/-3KHz	<b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection. Thermal shutdown with automatic resetting	<b>MTBF</b> 160,000 hours @ 45°C Demonstrated MTBF is significantly higher	<b>RoHS Compliance</b> Fully compliant
<b>Hold-Up Time</b> Min. 10ms at full load for 5% drop in output voltage	<b>Output Over-voltage Protection</b> Second regulator loop.	<b>Indicators</b> None	<b>Warranty</b> Two years subject to application within good engineering practice.



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