

150W, Rugged, Industrial Power Supply with 5 Outputs OPF 84-FT Series

- Five fully regulated outputs
- Rugged, industrial quality
- Conduction/convection cooling, no fan
- Full electronic protection
- Field-proven design



The OPF 84 Series is a heavy-duty, AC/DC power supply with five outputs and utilizes a field-proven design to deliver 150W output power. Each output is highly regulated and individually current limited. A wide range of DC output combinations are possible. Cooling is by conduction via baseplate to a heatsinking surface and by natural convection. The unit features full electronic protection and low output noise. Low component count, large design headrooms, 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. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage 115/230Vac ±15%; 47-63Hz Voltage selection by internal jumper Auto-ranging available Other voltages on request	Switching Frequency 100KHz +/-10KHz Hold Up Time Minimum 5ms at full load for 5% drop of output voltage	Overload Protection Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow Output Overvoltage Protection Double regulator loop on main loop and transzorbs on other outputs Efficiency Typ.80% at full load, depending on output voltages Operating Temperature 0° C to +50° C for full specification with proper cooling Wider temperature ranges as option Temperature Drift 0.03% per °C over operating temperature range Cooling Conduction to customer heatsink or chassis and natural convection Environmental Protection Basic ruggedizing Optional heavy ruggedizing and conformal coating	MTBF 130,000 hours @ 45 °C Demonstrated MTBF is significantly higher. Indicators None Available as option Alarm Outputs None Package/Dimensions (W x H x L) F3: 132 x 62 x 300 mm (5.2" x 2.4" x 11.8") including terminals and mounting flanges Mounting holes are clear Weight: Approx. 2 kg (4.4 lbs) Connections Input/output: barrier-type terminal block, 3/8" spacing RoHS Compliance Fully compliant Warranty: Two years subject to application within good engineering practice
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 Standards Designed to meet EN 60950 and corresponding standards Meets requirements for CE mark EMI EN 55022 Class A as a minimum	Output Voltage/Current Up to 24V for all outputs and up to 15A on the main output, up to 3A for second, third and fourth outputs and up to 1A for the fifth output. Other outputs on request Redundancy Diode None Line/Load Regulation +/-1% combined Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time Output Ripple/Noise Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)		



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