200W, Rugged, AC/DC Industrial Power Supply
OLC 53-FT Series

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

The OLC 53 Series AC/DC power supply uses a field proven high frequency push-pull topology to generate 200W output power. For 300W output power, please see the OLC 53F version with built-in fans. Almost any DC output is possible for this series. The OLC 53 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.

SPECIFICATIONS

Input Voltage
115/230Vac +/- 15%
47 - 63Hz
Voltage selection by internal jumper

Input Protection
Inrush current limiting
Internal safety fuse
Varistor
Lower voltage than the specified min. 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 UL and CSA standards

EMI
EN55022 Class B

Switching Frequency
55 KHz +/-3KHz

Hold Up Time
Min. 10ms at any input for 5% drop of the output voltage

Output Voltage/Current
12V/16A; 24V/8A, 48V/4A or 125V/1.6A
Consult factory for other voltages

Redundancy Diode
Available as option

Line/Load 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% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)

Output Overload Protection
Rectangular current limiting with short-circuit protection (no hiccup)
Thermal shutdown in case of insufficient cooling (self resetting)

Output Over-voltage Protection
Second regulator loop, completely stable and independent of main regulator loop

Efficiency
Output voltage dependent .
Typically 80% at full load

Operating Temperature Range
0 to+50°C for full specification,
Extended temp. range available

Temperature Drift
0.03% per °C over operating tempera range

Cooling
Convection and conduction cooling via a base-plate

Environmental Protection
Basic ruggedizing
Full ruggedizing and conformal coating as option

MTBF
200,000 hours @ 45 °C (calculated)
Demonstrated MTBF exceeds 1,000,000 hours at typical operating temperatures

Indicators
None
Available as option

Control Input
None
Available as option

Alarm Output
None on standard version

Dimensions
F2: 113 x 57 x 254 mm
(4.4"x 2.3" x 10") including terminal block and flanges
Mounting holes are clear

Weight
1.13kg (2.5lb)

Connections
9-pole barrier type terminal block with 3/8" spacing

RoHS Compliance
(Directive 2002/95/EC)
According to requirements

Warranty
Twelve months subject to application within good engineering practice.

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications subject to change.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility.

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