# 200W, SINGLE-OUTPUT POWER SUPPLY WITH PFC INPUT
# PFC 53-FT

- Electronic power factor correction (PFC)
- Full electronic protection
- Industrial quality
- Field-proven design topology
- N+1 redundancy as an option

The PFC 53 AC/DC power supply with power factor corrected input delivers 200W of output power. Designed for operation in harsh environments, the unit's rugged construction ensures that it will withstand high levels of shock and vibration. This compact design features low component count and high efficiency. The use of professional quality components and rigorous quality control results in an MTBF exceeding 150,000 hours at 45°C.

## SPECIFICATIONS

**Input Voltage**
Universal 90 … 264VAC
47 - 63Hz

**Input Protection**
Inrush current limiting
Internal safety fuse
Varistor S14K 275
Lower voltage than the specified min. input will not damage the unit

**Power Factor**
Min. 0.97 at full load for the entire input range. Meets EN61000-3-2

**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 A minimum

**Switching Frequency**
50-150KHz input section (load dependent)
55 KHz output section

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

**Redundancy Diode**
On request

**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% 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.

**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 temperat range

**Cooling**
Conduction/convection

**Environmental Protection**
Basic ruggedizing

**MTBF**
150,000 hours @ 45°C
Demonstrated MTBF is significantly higher

**Indicators**
Output ON LED visible through the cooling slots

**Alarm Output**
None on standard version
Available as an option

**Package / Dimensions**
F2: 113 x 57 x 254mm
(4.4" x 2.3" x 10")
including mounting flanges and terminals

**Weight**
1.13kg (2.5 lb)

**Connections**
Barrier type terminal block with 3/8" spacing, 9 poles

**RoHS Compliance**
Fully compliant

**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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