

## 750W, Rugged, Industrial Quality AC/DC Power Supply with PFC-Input PFC 65F-125FT



- Electronic power factor correction (PFC)
- Rugged, industrial quality
- Field-proven design
- Cooling by built in fans
- Full electronic protection
- N+1 redundancy as an option

This rugged, industrial quality AC/DC power supply with power factor corrected input uses field proven topology to generate up to 750W output power. It is a mature design with an excellent track record in numerous heavy-duty applications. Cooling is by long life built-in fans, with additional conduction via the base plate to a heat-sinking surface. An optional built-in redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy, and also makes the unit suitable for battery charging applications. Full electronic protection, low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

#### Input Voltage

Universal 95 ... 264Vac, 47 - 63Hz  
Input Current: 10Arms max. at 95Vac  
Power Factor is min.0.97 at full load for the entire input range.  
Meets EN61000-3-2

#### 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  
1000VDC output to chassis

#### Standards

Designed to meet EN 60950 and related standards

#### EMI

EN55022 Class A with margins

#### Switching Frequency

50-150KHz for input section (dependent on the load)  
55 KHz +/-3KHz for the DC/DC output section

#### Hold Up Time

Min. 10ms at any input for 5% drop in the output voltage

#### Output Voltage/Current

125V/6A standard.  
Adjustable 110-130V  
Output is floating, either terminal can be grounded  
Other voltages on request

#### Redundancy Diode

Not installed  
Available 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, completely stable and independent of main regulator loop.

#### Efficiency

Output voltage dependent  
Typically 80% at full load

#### Operating Temperature Range

0°C to 50°C for full specification  
Extended temperature range with derating available

#### Temperature Drift

0.03% per °C over operating temperature range

#### Cooling

Forced air by two high quality built-in fans and conduction to customer heat-sink or chassis

#### Environmental Protection

Basic ruggedizing  
Full ruggedizing and conformal coating on request

#### Shock/Vibration

IEC 61373 Cat 1 A&B

#### Humidity

5 - 95% non-condensing

#### MTBF

110,000 hours @ 45 °C (fans excluded)  
Demonstrated MTBF is significantly higher

#### Indicators

None

#### Control Input

None on standard version

#### Alarm Output

None on standard version  
Form C contacts as option

#### Package/Dimensions (W x H x L)

FF3: 155 x 64 x 300 mm  
6.1" x 2.5" x 11.8" including terminal block and flanges  
Open board format also available

#### Weight

2.3kg (5 lbs.)

#### Connections

12 pole barrier type terminal block, 3/8" spacing

#### RoHS Compliance

Fully compliant

#### Warranty

Two years subject to application within good engineering practice

**Enhancements to these general specifications and customizing can be accommodated upon request. Specifications are 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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