

1500W, Single-output Power Supply with PFC-Input PFC 1500 Series

- Electronic power factor correction (PFC)
- Rugged, industrial quality
- Field-proven design
- Adjustable single output
- 1500W output power
- Full electronic protection
- N+1 redundancy as an option



The PFC 1500 series AC/DC power supply with factor corrected input delivers up to 1500W output power. This field-proven design has a well documented record of reliable operation in very demanding applications. Its rugged construction ensures that it can withstand high levels of shock and vibration. The PFC 1500 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
Varistor
Internal safety fuse
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 as minimum

Switching Frequency

100KHz PFC section
55KHz +/-3KHz for the
output section

Hold Up Time

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

Output Voltage/Current

12Vdc/120A, 24Vdc/60A,
28Vdc/53A, 48Vdc/30A,
54Vdc/27A or 125Vdc/12A
are standard.
Consult factory for other voltages

Redundancy Diode

Optional
Not available for 12V version

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
temperature range

Cooling

Forced air by internal fan

Environmental Protection

Basic ruggedizing
Full ruggedizing and conformal
coating on request

MTBF

150,000 hours @ 45°C
(fans excluded)

Indicators

None

Alarm Output

Optional

Package / Dimensions

U5512: 5" x 5" x 12"

Weight

5.2 kg (11.5 lbs)

Connections

Barrier-type terminal block and
brass studs for higher output current

RoHS Compliance

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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