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|----------------|-------------------|
| Input Voltages | 90-305VAC |
| Outputs | Single plus 12VSB |

SPECIAL FEATURES

- Active Power Factor Correction
- Redundant operation
- Single wire current sharing
- AC OK
- DC OK
- PS On
- I²C interface PMBus Compatible
- Optional fan airflow direction
- Variable fan speed control
- UL, CUL, and DEMKO *design compliance*
- CE compliant
- **Custom modifications available**

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: ±0.01% /°C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating. Derate linearly to 50% of full rating at +71°C.

Cooling: Self contained fan cooling.

SAFETY APPROVALS, meets

UL & cUL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment – Safety – Part 1: General Requirements)

IEC 60950-1 (2005) (2nd_Edition): Am 1:2009 + Am 2:2013

Demko EN 60950-1:2006/A11 :2009, EN 60950-1:2006/A12:2011, EN 60950-1:2006/A1:2010, EN 60950-1:2006 /A2:2013

ELECTRICAL SPECIFICATIONS

Input Specifications

- Input Range..... 90 - 305VAC
- Frequency..... 50-60 Hz
- EMI filter..... EN55022 Class A, FCC Part 15
- Inrush Current..... ≤32A @ 230VAC
- Input Current..... 14.5A – 5.4A
- Isolation -
 - Input to Output..... 4242 VDC
 - Input to Ground..... 2121 VDC
 - Output to Ground 2121 VDC
- Efficiency..... 93%
- Active PFC..... 0.99
- Switching Frequency..... 50 KHz.
- Leakage..... ≤0.75mA

Output Specifications

- DC Output..... Maximum continuous output power 1500 Watts with self-contained fan cooling..
- Line Regulation..... ±0.2%
- Load Regulation..... ±1% on both outputs
- Ripple and Noise..... 1% Pk to Pk
- Transient Response..... 2% Maximum deviation; returns to initial condition in 1 msec max.
- Long Term Stability..... 0.01% after 20 minute warm-up.
- Hold-Up Time..... 16msec minimum
- OVP..... 110% to 115% on the main output and 110% to 125% on the standby output.

Model: BPA-RS1500-XXX

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Short-circuit Protection.....Constant current with delayed latching method on the primary output. The 12V standby utilizes the hiccup method.

Overload Protection.....Constant current with delayed latching method on the primary output. The 12V standby utilizes the hiccup method. The constant current method allows for a 50msec delay before the power supply shuts down if the output current rating exceeds 110% to 130% of maximum rated output current. The input must be recycled manually or may be digitally reset.

FET Isolation..... Internal FET isolation provided for N+1 redundant operation.

Current Sharing.....Outputs will current share within 5% when interconnected by a single wire.

PS On.....The primary output is enabled only by mating the PS On pin to common.

DC OK.....A TTL high logic signal is provided when the DC outputs are within normal operating conditions.

Alert.....An open collector signal is provided to indicate any fault.

PS Present.....A TTL low logic signal is provided to a short pin that is used to identify that the power supply is present.

AC OK.....A TTL high logic signal is provided when the input voltages are within normal operating conditions.

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Overvoltage Protection.....The power supply will shutdown if the output voltage exceeds 110% to 115% of the rated output voltage.

Undervoltage Protection..... The power supply will shutdown if the output voltage falls below 95% of the rated output voltage

Over Temperature Protection.... The power supply will shut down if temperature is greater than 100°C (internal temperature). The power supply is self recovering once the internal temperature falls below 71°C.

I²C Monitors temperature, output voltage, input voltage, input current, and output current; controls Fan speed, status LEDs. PMBUS compliant.

OVERALL MECHANICAL DIMENSIONS

15" L x 2" W x 1.58" H
(381.0mm x 50.5mm x 40.2mm)

PIN ASSIGNMENTS

See attached Hook-Up Drawing

CONNECTOR

Input..... IEC 320
Output.....Molex 46437-1615

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 3 years
- Weight: TBD

MODEL No. / OUTPUT VOLTAGE / CURRENT RATINGS CHART

| Model No. | O/P Voltage (Vdc) | Minimum | Maximum |
|----------------|-------------------|---------|---------|
| BPA-RS1500-120 | 12V | 0A | 125A |
| | 12VSB | 0A | 2.0A |
| BPA-RS1500-240 | 24 | 0A | 62.5A |
| | 12VSB | 0A | 2.0A |
| BPA-RS1500-480 | 48V | 0A | 31.2A |
| | 12VSB | 0A | 2.0A |
| BPA-RS1500-560 | 56V | 0A | 26.8A |
| | 12VSB | 0A | 2.0A |