



Model: BPA-R1400-120

Total Power	1150 Watts @ 90-120VAC 1400 Watts @ 200-264VAC
Outputs	Single 12V plus 12VSB



SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Single wire current sharing
- FET isolation
- Power Disable
- Variable Fan Speed Control
- I²C interface with PMBUS Standard
- UL, CUL, and DEMKO Approvals, *to be obtained*
- CE compliant

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.

Cooling: Self-contained fan cooling

SAFETY APPROVALS *to be obtained*

UL	60950-1
CUL	60950-1
DEMKO	EN60950-1

VOLTAGE/CURRENT RATING CHART

Assign	I/P VAC	Voltage	Min	Max
VO1	90-132	12.0V	0A	95.8A
VO1	180-264	12.0V	0A	116.6A
12VSB	90-264	12.0V	0A	2.0A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range..... 90-264 VAC
 Frequency..... 47-60 Hz
 EMI filter..... EN55022 Class A, FCC Part 15
 Inrush Current..... ≤32A @ 220 VAC
 Input Current..... 14.3A – 5.9A
 Isolation..... 4242 VDC (Input to Output)
 Efficiency..... 92%
 Active PFC..... 0.99
 Switching Frequency..... 134KHz.
 Leakage..... ≤.75mA @ 264 VAC

Output Specifications

DC Output..... Maximum continuous output power 1400 Watts with self-contained fan cooling at 180-264VAC. Maximum Continuous output power 1150 Watts at 90-132VAC.

Line Regulation..... ±0.05%

Load Regulation..... ±2%

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.

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ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Hold-Up Time..... 4msec minimum

OVP.....13.5 - 15.0V on both outputs;. Latching method, to be cleared by an input cycle or recycling of PS_ON from on to off to on

OCP.....120A – 130A on main output; Latching method, to be cleared by an input cycle or recycling of PS_ON from on to off to on; 2.7 – 5.0A on STBY output; disables main output; self clearing.

Short-circuit Protection.....Shall be limited to peaks under 140A on the main output and 5A on the STBY output until OCP circuitry kicks in on either output.

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

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

Remote sense Main output only

PS On.....A logic low signal enables the Main output of the supply.

POK..... Digital output, Open Collector; driven high when outputs are in regulation.

PS_Kill..... Digital input. When driven high, main output is disabled. When Low, power main output state is as controlled by PS_ON

PS_Present Digital Output. Pulled low via 100 ohm resistor.

LED (BiColor) InletOK/DC_OK – Green
Fault - Amber

I²C/PMBUS.....Monitors temperature, input voltage, input current, output voltage, and output current; controls Fan speed, Fan LED and connects to a serial NVRAM which is programmed with serial number. PMBUS Standard to allow monitoring of overall operation of power supply.

OVERALL MECHANICAL DIMENSIONS

7.8" L x 3.4" W x 1.55" H
(197.6mm x 86.3mm x 39.3mm)

PIN ASSIGNMENTS

TBD

CONNECTOR

Input – IEC Connector
Output – Card Edge

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: TBD