



Model: BPA-R250 Series

Total Power	250 Watts
Input Voltages	85-264 VAC
Outputs	Single plus 5VSB



SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Single wire current sharing
- Diode isolation
- Power good signal
- PS_On
- UL, cUL and DEMKO to EN60950-1
- 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. Derate linearly to 50% of full rating at +71°C.

Cooling: 10-CFM fan cooling required

SAFETY APPROVALS

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

- 250 Watts
- High Density - 1U Profile
- Power Factor and Harmonic Current Correction
- Redundant Operation

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range..... 85-264 VAC
 Frequency..... 50-440 Hz
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... ≤32A @ 230 VAC
 Input Current..... 3.6A – 1.2A
 Isolation..... 4242 VDC (Input to Output)
 Efficiency..... 80% @ 120 VAC
 Active PFC..... 0.99
 Switching Frequency..... 134KHz.
 Leakage..... <300uA @ 63Hz

Output Specifications

DC Output..... Maximum continuous output power 250 Watts with 10-CFM fan cooling.

Line Regulation..... ±0.05%

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.

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ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Long Term Stability..... 0.01% after 20 minute warm-up.

Hold-Up Time..... 20msec minimum

OVP.....115% to 135% on both outputs. AC must be recycled to restart the unit.

Short-circuit Protection.....Hiccup method.

Overload Protection.....The overload protection feature will reduce the output voltage to a safe dissipation level when the output power rating exceeds 125% of maximum rated power. The unit will automatically return to regulation upon removal of the overload.

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

Current Sharing.....VO1 output will current share within 5% when interconnected by a single wire.

Power Good..... A TTL high logic signal is provided on pin P3-1 when the output voltages are within normal operating conditions.

PS_On.....The secondary outputs are enabled only upon mating pin P3-2 to output common on the customer's backplane.

OVERALL MECHANICAL DIMENSIONS

U-Bracket Construction
5"L x 3.3"W x 1.5"H
(127mm L X 83.82mm W X 38.1mm H)

PIN ASSIGNMENTS

DC Output Connectors
P2-1, 2, 3, 4, 5.....DC Common
P2-6, 7, 8, 9, 10.....+VO1

P3-8.....Fan 2 Sense
P3-7.....Fan 1 Sense
P3-6.....+VO1 Current Share
P3-5.....+5VSB
P3-4.....-VO1 Sense
P3-3.....+VO1 Sense
P3-2.....PS_On
P3-1.....Power Good

CONNECTOR

AC input Molex 26-60-4050
DC output P2 - Molex 26-60-4100
P3 – AMP 640456-8

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 1.25 lbs.

VOLTAGE/CURRENT RATING CHART

Part Number	Assignment	Voltage	Minimum	Maximum
BPA-R250-120	VO1	+12V	0A	20.8A
	5VSB	+5V	0A	0.1A
BPA-R250-150	VO1	+15V	0A	16.7A
	5VSB	+5V	0A	0.1A
BPA-R250-210	VO1	+21V	0A	11.9A
	5VSB	+5V	0A	0.1A
BPA-R250-240	VO1	+24V	0A	10.4A
	5VSB	+5V	0A	0.1A
BPA-R250-360	VO1	+36V	0A	6.9A
	5VSB	+5V	0A	0.1A
BPA-R250-480	VO1	+48V	0A	5.2A
	5VSB	+5V	0A	0.1A
BPA-R250-580	VO1	+58V	0A	4.3A
	5VSB	+5V	0A	0.1A

Other Voltages are available

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