AUTEC POWER SYSTEMS
...POWERmatters.

Model: BPA-R3200-2000

Total Power	*3200 Watts*
Input Voltages	*90-265VAC*
Outputs	*200VDC plus 12VSB*

SPECIAL FEATURES

- Active Power Factor Correction
- Redundant operation
- Single wire current sharing
- Power Disable
- Power Good
- Inhibit
- I²C interface PMBus Compatible
- Variable fan speed control
- UL, CUL, and DEMKO, ***to be obtained***
- 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.

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range…….. 90 - 265VAC
Frequency……..50-60 Hz
EMI filter…….. EN55022 Class A, FCC Part 15
Inrush Current……≤32A @ 305VAC
Input Current…….. 20A @ 180VAC
Isolation (Input to Output)…….. 4242 VDC
Efficiency……93%
Active PFC……0.99
Switching Frequency……130KHz.
Leakage……..≤3.5mA

Output Specifications

DC Output……..3200W maximum output at 180–265VAC input range, derates linearly to 1500W at 90VAC input.

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…… 12msec minimum

OVP……115% to 135% on both outputs

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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 5-second 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 secondary outputs are enabled only upon mating a shorter enable pin to output common on the customer's backplane.

DC OK……A TTL low signal provides a 4ms warning prior to DC outputs dropping out of regulation.

Fault…… A TTL high logic signal is provides warning of output voltage below 90% of nominal, fan fault or over temperature.

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

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

I²C ……..……..... Monitors temperature, output voltage, input voltage, input current, and output current; controls Fan speed, Fan LED. PMBUS softwar allows monitoring of overall operation of power supply.

OVERALL MECHANICAL DIMENSIONS

15.99" L x 4.0" W x 1.58" H
(406.7mm x 101.6mm x 40.2mm)

PIN ASSIGNMENTS

See attached Hook-Up Drawing

CONNECTOR

Input/Output……..Molex 46437-1430

NOTES

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

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