



Model: BPC2250 Chassis

Total Power	2250W (3 units)
Input Voltages	90-264 VAC
Outputs	Single plus 5VSB

SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Single wire current sharing
- Available in Single or Three Phase Inputs
- Diode isolation
- PS On
- Power Okay
- Inhibit
- I²C interface (optional)
- UL, CUL, and DEMKO Approvals
- 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

UL	606950
CUL	60950
DEMKO	EN60950

OVERALL MECHANICAL DIMENSIONS

11.41" L x 4.0" W x 6.0" H
(290mm x 101mm x 152.4mm)

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....	90-264 VAC
Frequency.....	47-440 Hz
EMI filter.....	EN55022 Class B, FCC Part 15
Inrush Current.....	≤32A @ 230 VAC
Input Current (1500W).....	20.0A – 7.0A
Input Current (750W).....	10.4A – 3.7A
Isolation.....	4242 VDC (Input to Output)
Efficiency.....	85% @ 120 VAC
Active PFC.....	0.99
Switching Frequency.....	134KHz.
Leakage.....	< 3.5mA

Output Specifications

DC Output.....	Maximum continuous output power 1500 Watts with self-contained fan cooling.
Line Regulation.....	±0.05%
Load Regulation.....	±1%
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..... 20msec minimum

OVP.....115% to 135% on VO1 output only.

Short-circuit Protection.....Constant current with delayed latching method on VO1 output. The 5VSB utilizes the hiccup method.

Overload Protection.....Constant current with delayed latching method on VO1 output. The 5VSB 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 AC must be recycled or the PS ON reset to restart the unit.

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.

PS On.....The secondary outputs are enabled only upon mating pin P2-12 to output common on the customer's backplane.

Power Okay..... A TTL high logic signal is provided on pin P2-4 when the input and output voltages are within normal operating conditions.

InhibitA TTL low logic signal sent to pin P2-9 inhibits all outputs except the 5VSB. Upon release of the signal, outputs are restored.

I²C (Optional)..... Monitors: Power Good, Voltage, Current, Temperature, and Fan

CONNECTOR

AC input – Terminal Blocks
 DC output – Bus Bars
 Output Connector - Molex 39-31-0120

PIN ASSIGNMENTS

See attached Hook-Up Drawing

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 year
- Weight: 8.5 lbs

VOLTAGE/CURRENT RATING CHART (1500W)

Part Number	Assignment	Voltage	Minimum	Maximum
BPC2250-120-2	VO1	+12.0V	0A	125A
	5VSB	+5V	0A	2.0A
BPC2250-280-2	VO1	+28V	0A	53.6A
	5VSB	+5V	0A	2.0A
BPC2250-480-2	VO1	+48V	0A	31.3A
	5VSB	+5V	0A	2.0A
BPC2250-580-2	VO1	+58V	0A	25.9A
	5VSB	+5V	0A	2.0A

VOLTAGE/CURRENT RATING CHART (2250W)

Part Number	Assignment	Voltage	Minimum	Maximum
BPC2250-120-3	VO1	+12.0V	0A	187.5A
	5VSB	+5V	0A	2.0A
BPC2250-280-3	VO1	+28V	0A	80.4A
	5VSB	+5V	0A	2.0A
BPC2250-480-3	VO1	+48V	0A	46.9A
	5VSB	+5V	0A	2.0A
BPC2250-580-3	VO1	+58V	0A	38.8A
	5VSB	+5V	0A	2.0A

from 12V to 58V