

Model: BPA-R1100-480C

Total Power	1100 Watts
Input Voltages	90-264 VAC
Outputs	Single plus 5VSB

SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- POE/Isolated Output
- Redundant operation
- Single wire current sharing
- Diode isolation
- PS On
- Power Okay
- Inhibit
- I²C interface
- UL, CUL, DEMKO and CCC 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. Derates linearly to 70% of full rating at +70°C.

Cooling: Self contained fan cooling.

SAFETY APPROVALS

UL	60950-1 to 2 nd Edition
CUL	60950-1 to 2 nd Edition
DEMKO	EN60950-1 to 2 nd Edition



OVERALL MECHANICAL DIMENSIONS

10.48" L x 3.23" W x 1.55" H
(266.3mm x 82mm x 39.4mm)

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....	90-264 VAC
Frequency.....	47-63 Hz
EMI filter.....	EN55022 Class A, FCC Part 15
Inrush Current.....	≤32A @ 230 VAC
Input Current.....	14.3A – 4.7A
Isolation (Input to Output).....	4242 VDC
Isolation (VO1 to Gnd).....	2200 VDC
Isolation (VO1 to Logic Gnd)....	2200 VDC
Efficiency.....	88% @ 120 VAC
Active PFC.....	0.99
Switching Frequency.....	134KHz.
Leakage.....	< 1mA

Output Specifications

DC Output.....	Maximum continuous output power 1100 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..... 16msec 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.....VO1 Output will current share within 5% when interconnected by a single wire.

PS ON.....The secondary outputs are enabled only upon mating pin P1-7 to output common on the customer's backplane.

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 60°C.

Power Okay..... A TTL high logic signal is provided on pin P1-10 when the input and output voltages are within normal operating conditions.

InhibitA TTL low logic signal sent to pin P1-11 inhibits all outputs except the 5VSB. Upon release of the signal, outputs are restored.

I²C Monitors: Power Good, Voltage, Current, Temperature, and Fan

PIN ASSIGNMENTS

See attached In/Output Rating and Pin Assignment Sheet

CONNECTOR

Input/Output – Positronic PCIM30W15M400A1

NOTES

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

VOLTAGE/CURRENT RATING CHART

Sample Part Number	Assignment	Voltage	Minimum	Maximum
BPA-R1100-480C	VO1	*48V	0A	22.9A
	5VSB	+5V	0A	2.0A

*Isolated Output



IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: HUIJWI
REV. NO.: Proto	DATE : 02. 27. 2012
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

MODEL NO. : BPA-R1100-480C L F

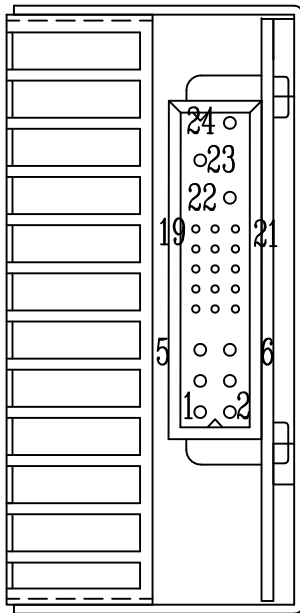
INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-240V~		P1-24
N:			P1-23
GND:		50-60Hz	P1-22

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1:	-48V ---	22.9A	P1-1,2
48V RET:	(Ret of -48V, Pos power rail)		P1-3,4
Not Connected:			P1-5
5VSB:	+5V ---	2A	P1-18
48VCS:			P1-6
PS ON:			P1-7
NC.:			P1-8,9
INH:			P1-11
P. OK:			P1-10
FAN_OK:			P1-12
TEMP:			P1-13
PSU_PRESENT:			P1-14
Digital GND:			P1-15
SDA:			P1-16
SDL:			P1-17
A2:			P1-19
A1:			P1-20
A0:			P1-21

MAXIMUM OUTPUT POWER: 1100W



P1 = POSITRONIC PCIB24W9M400A1/AA