

**Model: BPA-R1100-480**

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
- I<sup>2</sup>C interface
- UL, CUL, DEMKO
- 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<sup>nd</sup> Edition
- CUL 60950-1 to 2<sup>nd</sup> Edition
- DEMKO EN60950-1 to 2<sup>nd</sup> 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.

**Model: BPA-R1100-480**

**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.

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

I<sup>2</sup>C ..... Monitors: Power Good, Voltage, Current, Temperature, and Fan

**PIN ASSIGNMENTS**

See attached In/Output Rating and Pin Assignment Sheet

**CONNECTOR**

Input/Output – Positronic PCIM30W15M400A1

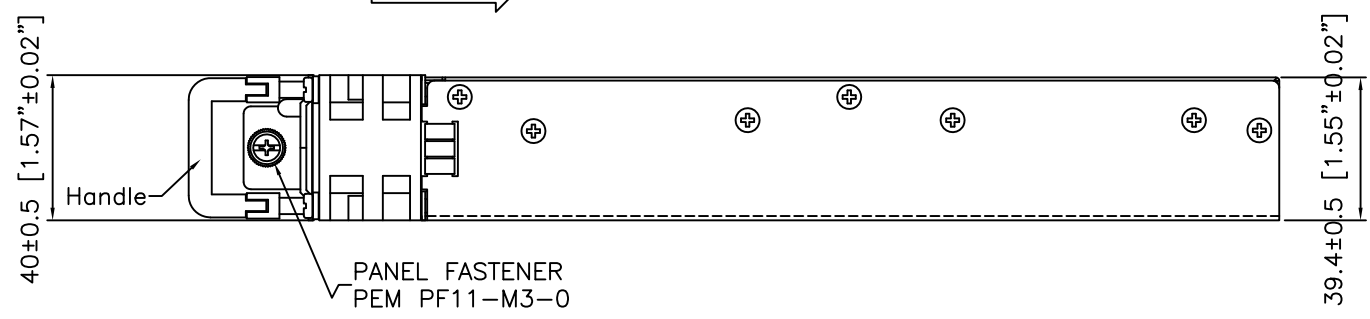
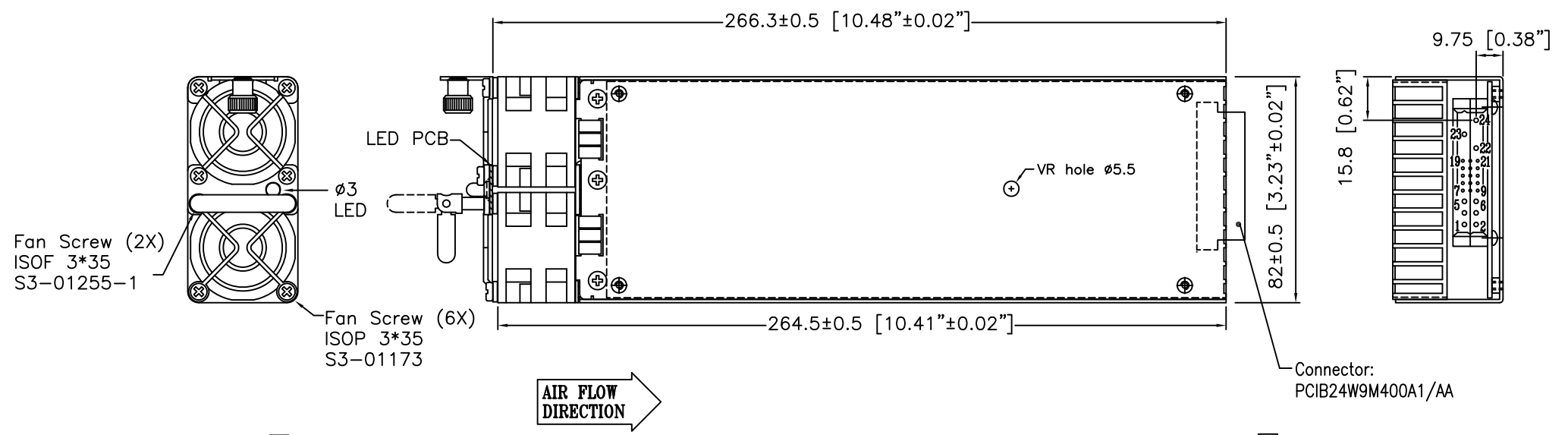
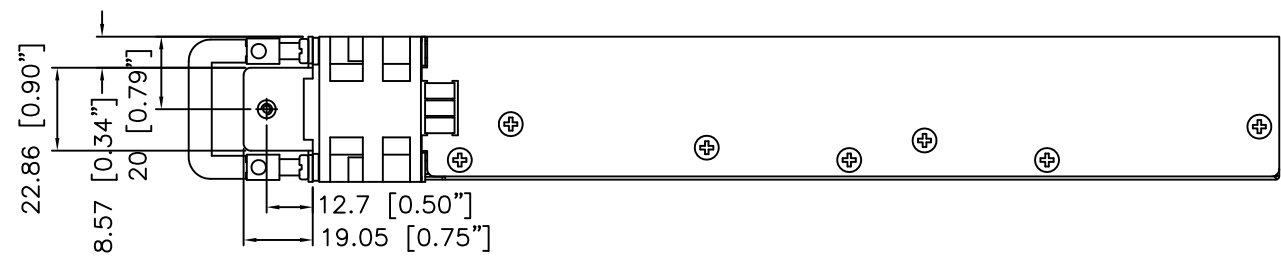
**NOTES**

- 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
<b>BPA-R1100-480</b>	VO1	*48V	0A	22.9A
	5VSB	+5V	0A	2.0A

*\*Isolated Output*



<b>BluTek Power</b>											
<b>Outline drawing</b>											
TITLE											
DRAWN	H. L. LIN	DRG. NO.	BLU-264								
CHECKED		MODEL NO.	BPA-R1100-480 LF								

UNIT	mm[inches]	REV. NO.	E	SCALE	0.48 : 1	MAT'L	t=
THIRD	⊕	⚡		TOL.	± 0.5	DATE	07. 19. 2012



## IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0591
REV. NO.: D	DATE : 06. 18. 2012
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

MODEL NO. : BPA-R1100-480      LF

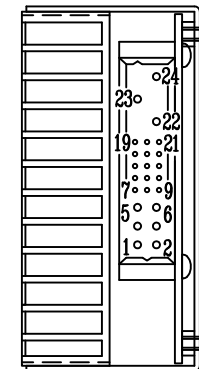
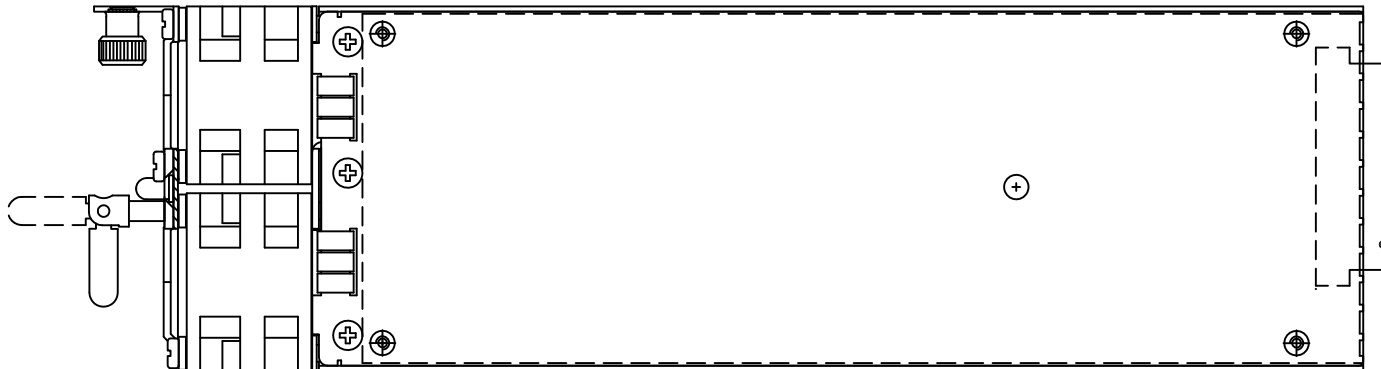
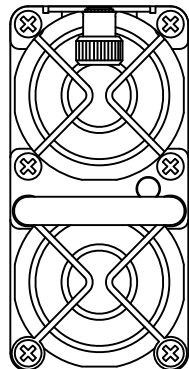
### INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-240V~	15-5A	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