

Model: BPA-R850-3840-CR

Total Power	850 Watts
Input Voltages	180-264 VAC
Outputs	384VDC plus 5VSB

SPECIAL FEATURES

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

Cooling: Self contained fan cooling.

SAFETY APPROVALS, to be obtained

UL 60950-1 Second Edition
 CUL 60950-1 Second Edition
 DEMKO EN60950-1 Second 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..... 180-264 VAC
 Frequency..... 47-63 Hz
 EMI filter..... EN55022 Class A, FCC Part 15
 Inrush Current..... ≤32A @ 230 VAC
 Input Current..... 5.6A – 3.8A
 Isolation (Input to Output)..... 4242 VDC
 Isolation (VO1 to Gnd)..... 2200 VDC
 Isolation (VO1 to Logic Gnd).... 2200 VDC
 Efficiency..... 88%
 Active PFC..... 0.99
 Switching Frequency..... 134KHz.
 Leakage..... < 1mA

Output Specifications

DC Output..... Maximum continuous output power 850 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..... 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

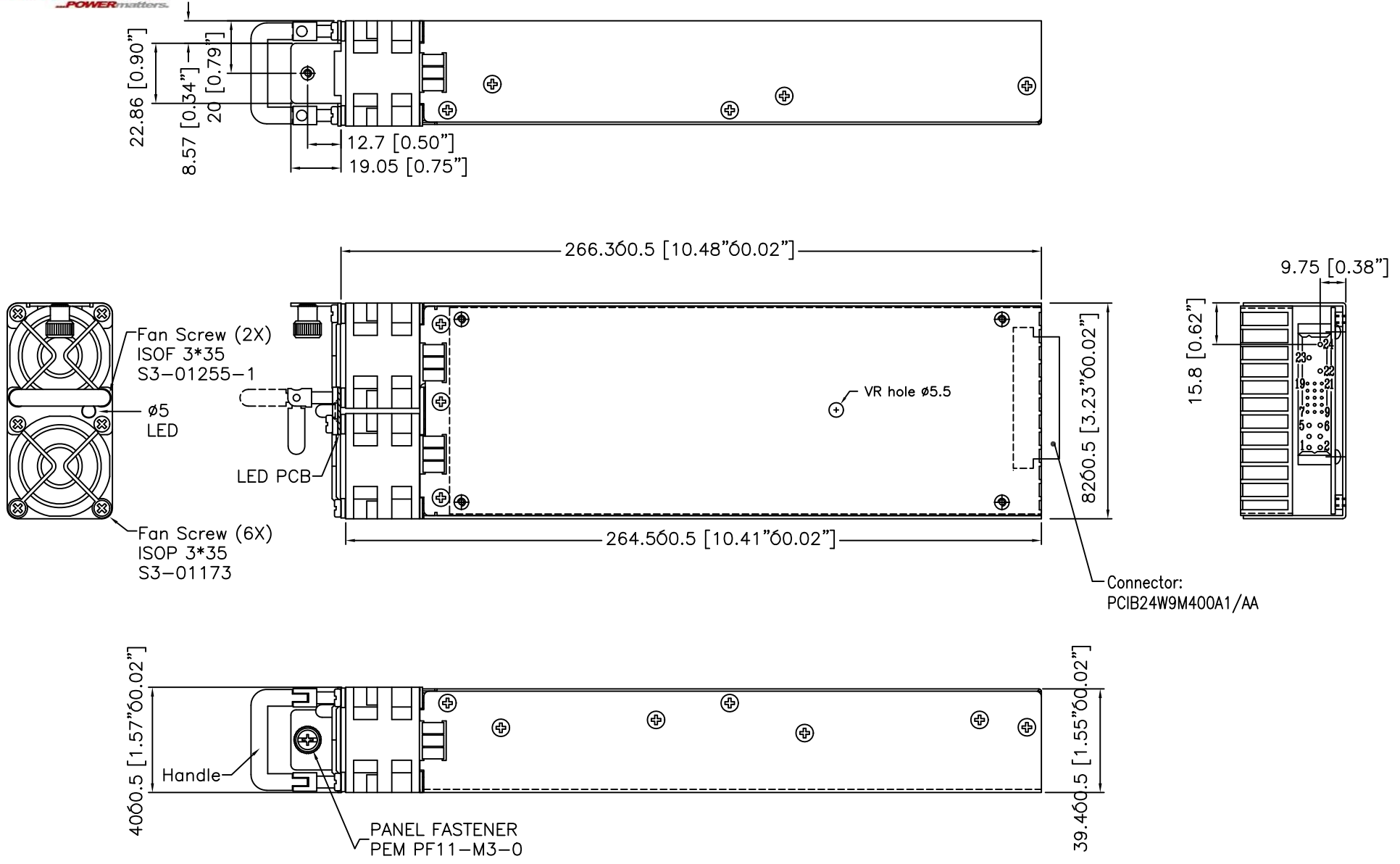
Input/Output– Positronic PCIB24W9M400A1/AA

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: 3 lbs (est)

VOLTAGE/CURRENT RATING CHART

Sample Part Number	Assignment	Voltage	Minimum	Maximum
BPA-R850-3840-CR	VO1	384V	0A	2.2A
	5VSB	+5V	0A	2.0A



TITLE		Outline drawing			
DRAWN	H. L. LIN	DRG. NO.	BLU-264		
CHECKED		MODEL NO.	BPA-R850 Series		

UNIT	mm[inches]	REV. NO.	C	SCALE	0.48 : 1	MAT'L	t=
THIRD	⊕	⚡		TOL.	± 0.5	DATE	06. 02. 2008

IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0494
REV. NO.: A	DATE : 02. 15. 2008
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

MODEL NO. : BPA-R850-3840

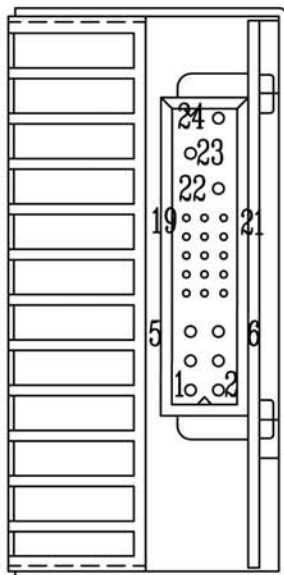
INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	180-240V~		P1-24
N:			P1-23
GND:		50-60Hz	P1-22

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1:	384V ---	2.2A	P1-1,2
VO1 RET:			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: 850W



P1 = POSITRONIC PCIB24W9M400A1/AA