

**Model: BPD-R750-Series**

Total Power	750 Watts
Input Voltages	36-72 VDC
Outputs	Single plus 5VSB



**SPECIAL FEATURES**

- 36-72 DC Input
- Redundant operation
- Single wire current sharing
- Diode isolation
- Power Disable
- Power Good
- Inhibit
- I<sup>2</sup>C interface (optional)
- UL, CUL, and DEMKO Approvals *In Process*
- 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 *In Process***

UL	60950
CUL	60950
DEMKO	EN60950

**OVERALL MECHANICAL DIMENSIONS**

11.10" L x 3.23" W x 1.55" H  
(281.85mm x 82mm x 39.4mm)

**ELECTRICAL SPECIFICATIONS**

***Input Specifications***

Input Range.....	36-72 VDC
EMI filter.....	EN55022 Class B, FCC Part 15
Inrush Current.....	≤32A @ 72VDC
Input Current.....	27A – 13A
Isolation.....	2828 VDC (Input to Output)
Efficiency.....	85% @ 48VDC

***Output Specifications***

DC Output.....	Maximum continuous output power 750 Watts with self-contained fan cooling.
Line Regulation.....	±0.05%
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.....	4msec minimum

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## Model: BPD-R750-Series

### ELECTRICAL SPECIFICATIONS (CONT')

#### Output Specifications

OVP.....115% to 135% on both outputs

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

Overload Protection.....Constant current with delayed latching method on the VO1 output. The 5V 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 DC must be recycled to reset.

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 P1-21 to output common on the customer's backplane.

Power Okay..... A TTL high logic signal is provided on pin P1-15 when the input and output voltages are within normal operating conditions.

Inhibit .....A TTL low logic signal sent to pin P1-24 inhibits all outputs except the 5VSB. Upon release of the signal, outputs are restored.

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

### PIN ASSIGNMENTS

See attached In/Output Rating and Pin Assignment Sheet

### CONNECTOR

DC input & DC output - Positronic PCIM33W18M400A

### NOTES

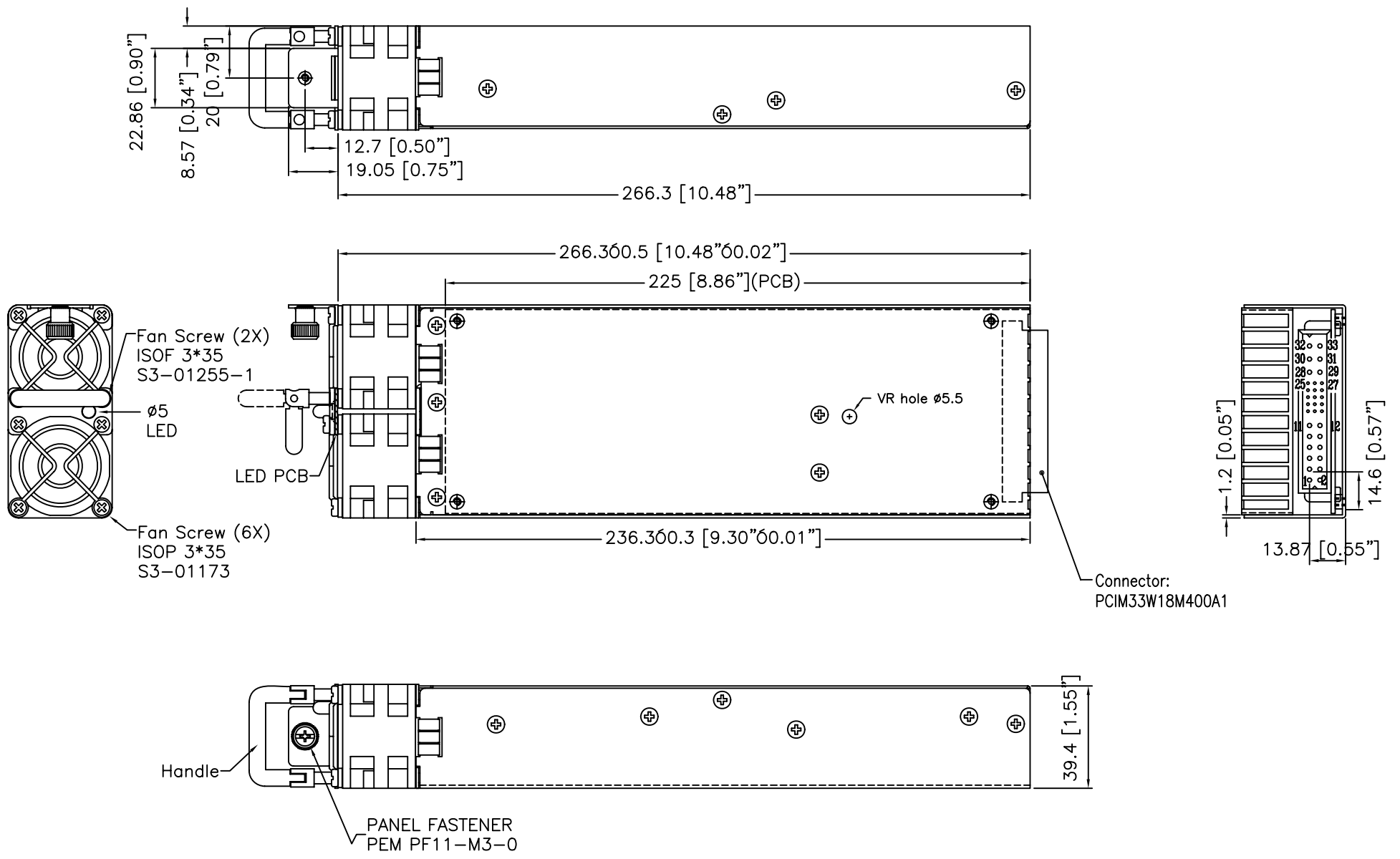
- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 3 lbs.

### VOLTAGE/CURRENT RATING CHART

Part Number	Assignment	Voltage	Minimum	Maximum
BPD-R750-120	VO1	+12V	0A	62.5A
	5VSB	+5V	0A	2.0A
BPD-R750-150	VO1	+15V	0A	50.0A
	5VSB	+5V	0A	2.0A
BPD-R750-240	VO1	+24V	0A	31.3A
	5VSB	+5V	0A	2.0A
BPD-R750-280	VO1	+28V	0A	26.8A
	5VSB	+5V	0A	2.0A
BPD-R750-360	VO1	+36V	0A	20.8A
	5VSB	+5V	0A	2.0A
BPD-R750-480	VO1	+48V	0A	15.6A
	5VSB	+5V	0A	2.0A
BPD-R750-580	VO1	+58V	0A	12.9A
	5VSB	+5V	0A	2.0A

Other Voltages are available

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<i>BluTek Power</i>			
Outline drawing			
TITLE			
DRAWN	H. L. LIN	DRG. NO.	BLU-183
CHECKED		MODEL NO.	BPD-R750

UNIT	mm[inches]	REV. NO.	A	SCALE	0.48 : 1	MAT'L	t=
THIRD	⊕	⏏		TOL.	± 0.2	DATE	03. 03. 2006



## IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0418
REV. NO.: B	DATE : 06. 29. 2006
DRAWN: ? ? ? H. L. LIN	CHECKED:

MODEL NO. : BPD-R750-Series

### INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+	36-72V---		P1-32,33
-			P1-30,31
GND			P1-28,29

### OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1:	See Voltage/Current Rating Chart		P1-1,2,3,4,5,6
DC COM:			P1-7,8,9,10,11,12
+12VS:			P1-19
5VSB:	+5V ---	2A	P1-13,14
INH:			P1-24
TEMP:			P1-20
PS ON:			P1-21
SDL:			P1-17
SDA:			P1-16
DC COM:			P1-18
P. OK:			P1-15
-12VS:			P1-22
+12VCS:			P1-23
NC:			P1-25,26,27

MAXIMUM OUTPUT POWER: 750W

P1=POSITRONIC,  
P/N:PCIM33W18M400A

