

Models: BPD-R850-XXX

Total Power	850 Watts
Input Voltages	36-72 VDC
Outputs	Single plus 5VSB

SPECIAL FEATURES

- 36-72 DC Input
- Redundant operation
- Isolated output (optional)
- Single wire current sharing
- Diode isolation
- Power Disable
- Power Good
- Inhibit
- I²C interface
- UL, CUL, and DEMKO Approvals
- CE compliant

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

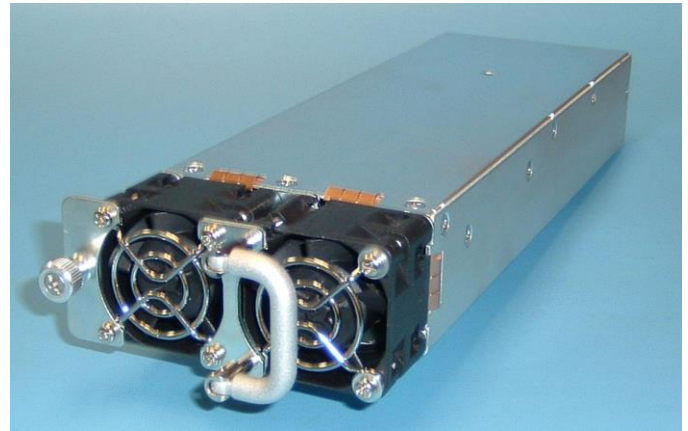
Temperature coefficient: ±0.01% / °C

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	60950-1 Second Edition
CUL	60950-1 Second Edition
DEMKO	EN60950-1 Second Edition



ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....	36-72 VDC
EMI filter.....	EN55022 Class A, FCC Part 15
Inrush Current.....	≤32A @ 72VDC
Input Current.....	27.7A – 13.8A
Isolation.....	2828 VDC (Input to Output)
Efficiency.....	85% @ 48VDC

Output Specifications

DC Output.....	Maximum continuous output power 850 Watts with self-contained fan cooling.
Line Regulation.....	±0.2%
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.....	2msec minimum

300-1 Route 17 South Suite B2
 Lodi, NJ 07644
 Phone: (973) 594-1800 Fax: (973) 594-1804
salesteam@blutekpower.com

Models: BPD-R850-XXX

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

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

Overload Protection.....Constant current with delayed latching method on the primary 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 the PS ON pin 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 71°C.

ELECTRICAL SPECIFICATIONS (CONT')

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

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

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

OVERALL MECHANICAL DIMENSIONS

See attached Outline Drawing

PIN ASSIGNMENTS

See attached In/Output Rating and Pin Assignment Sheet

CONNECTOR

DC input & DC output - Positronic PCIM33W18M400A

NOTES

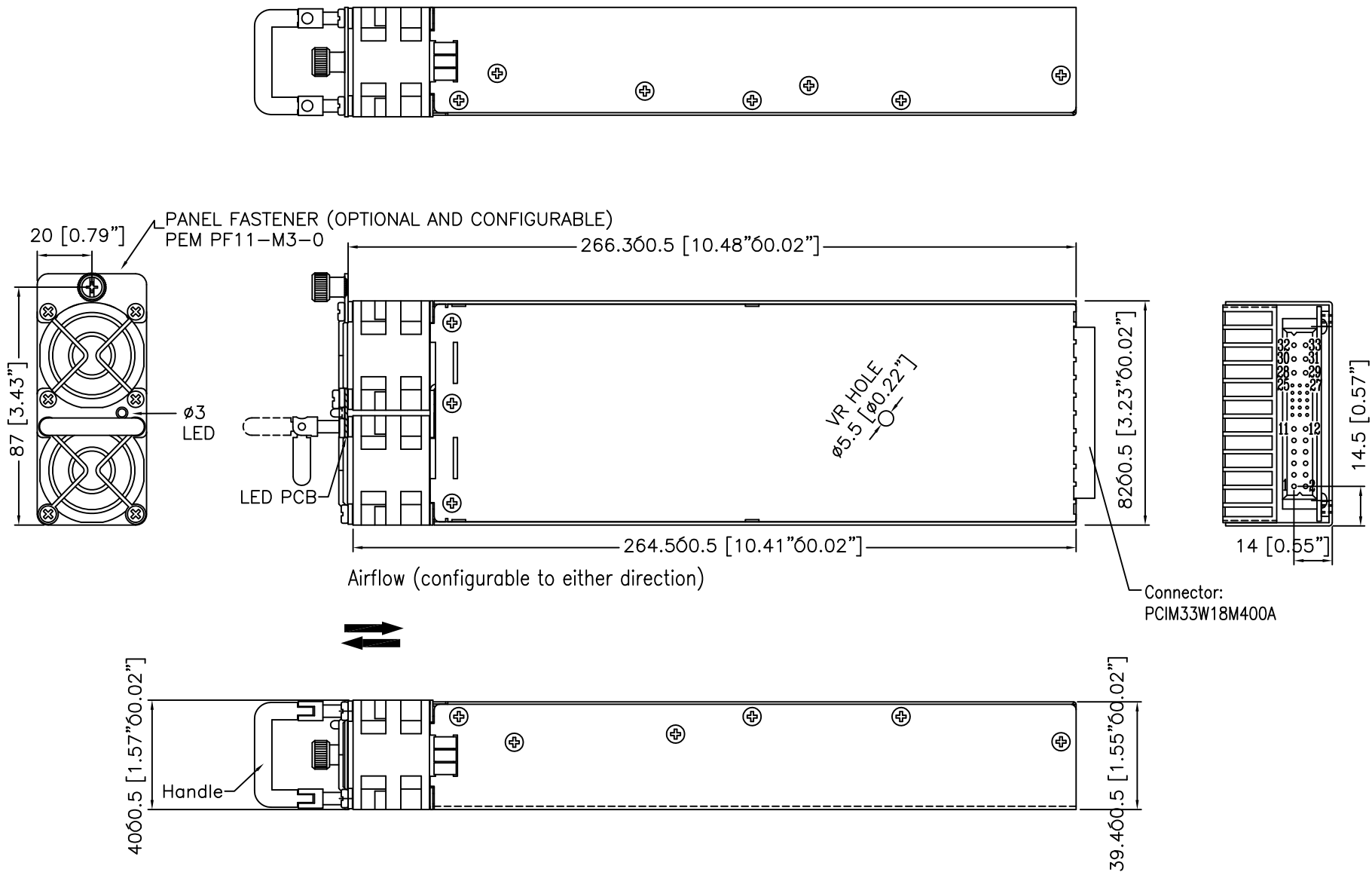
- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: 2.8lbs

MODEL NO. / OUTPUT VOLTAGE / CURRENT RATINGS CHART

Model No.	Output	O/P Voltage (Vdc)	Minimum	Maximum
BPD-R850-120	VO1	+12V	0A	70.8A
	5VSB	+5V	0A	2.0A
BPD-R850-480	VO1	+48V	0A	17.7A
	5VSB	+5V	0A	2.0A

Not all models listed, other voltages available

300-1 Route 17 South Suite B2
Lodi, NJ 07644
Phone: (973) 594-1800 Fax: (973) 594-1804
salesteam@blutekpower.com



							TITLE		Outline drawing		
UNIT	mm[inches]	REV. NO.	A	SCALE	0.48 : 1	MAT'L	t=	DRAWN	H. L. LIN	DRG. NO.	334
THIRD	⊕	⚡		TOL.	± 0.5	DATE	02. 02. 2009	CHECKED		MODEL NO.	BPD-R850

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME:BPDR850JW
REV. NO.: C	DATE : 11. 26. 2008
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

IN/OUTPUT RATING & PIN ASSIGNMENT

MODEL NO. : BPD-R850-XXX

INPUTS :

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

OUTPUTS :

<u>ASSIGNMENT</u>	<u>D.C. VOLTAGE</u>	<u>CURRENT</u>	<u>PIN NBR</u>
VO1:	SEE VOLTAGE/CURRENT RATING CHART		P1-1,2,3,4,5,6
DC COM:			P1-7,8,9,10,11,12
+V01S:			P1-19
5VSB:	+5V ---	2A	P1-14
INH:			P1-24
TEMP:			P1-20
PS ON:			P1-13
SDL:			P1-17
SDA:			P1-16
DC COM:			P1-18
P. OK:			P1-15
-V01S:			P1-22
+V01CS:			P1-23
A0:			P1-27
A1:			P1-26
A2:			P1-25
NU:			P1-21

MAXIMUM OUTPUT POWER: 850W

P1=POSITRONIC,
P/N:PCIM33W18M400A

