

Model: BPA-250L-Series

Total Power	250 Watts
Input Voltages	90-264 VAC
Outputs	Dual



SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Remote Sense on both outputs
- UL, cUL and DEMKO
- CE compliant
- Low profile height fits 1U constraints
- 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: 10 CFM forced air-cooling required.

SAFETY APPROVALS

UL	606950
CUL	606950
DEMKO	EN606950

- 250 Watts
- High Density - 1U Profile – 6” x 3.3” x 1.5”
- Power Factor and Harmonic Current Correction

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....90-264 VAC
 Frequency.....50-440 Hz
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... ≤32A @ 230 VAC
 Input Current..... 3.5 – 1.2A
 Isolation.....4242 VDC (Input to Output)
 Efficiency.....80% @ 120 VAC
 Active PFC..... 0.99
 Switching Frequency.....134 KHz.
 Leakage..... <300uA

Output Specifications

DC Output.....Maximum continuous output power 250 Watts with 10-CFM fan cooling.

Line Regulation.....±0.5%

Load Regulation.....±1%

Ripple and Noise.....1% Pk to Pk

Transient Response..... 2% Maximum deviation; returns to initial condition in 1 msec max.

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

Model: BPA-250L Series

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Long Term Stability.....0.01% after 20 minute warm-up.

Hold-Up Time.....20msec minimum

OVP.....Set at 115% to 135%.
Latching method. AC must be recycled to restart the unit.

Short-circuit Protection.....The units will withstand a continuous short without damage. It will automatically return to regulation upon removal of the short.

Overload Protection.....The overload protection feature will reduce the output voltage to a safe dissipation level when the output power rating exceeds 125% of maximum rated power. The unit will automatically return to regulation upon removal of the overload.

OVERALL MECHANICAL DIMENSIONS

U-Bracket Construction
6"L x 3.3"W x 1.5"H
(152.4mm L X 83.8mm W X 38.1mm H)

(See attached outline drawing)

PIN ASSIGNMENTS

See attached In/output Rating and Pin Assignment Sheet

CONNECTOR

Input Molex 26-60-4050
(Pin 2 and 4 are removed)

Output Molex 26-60-4140

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 year
- Weight: 1.5lbs

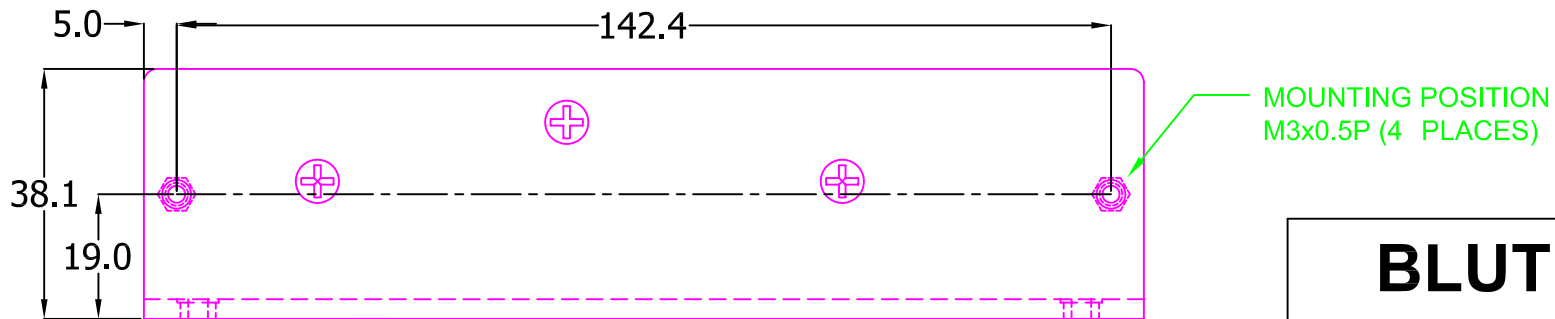
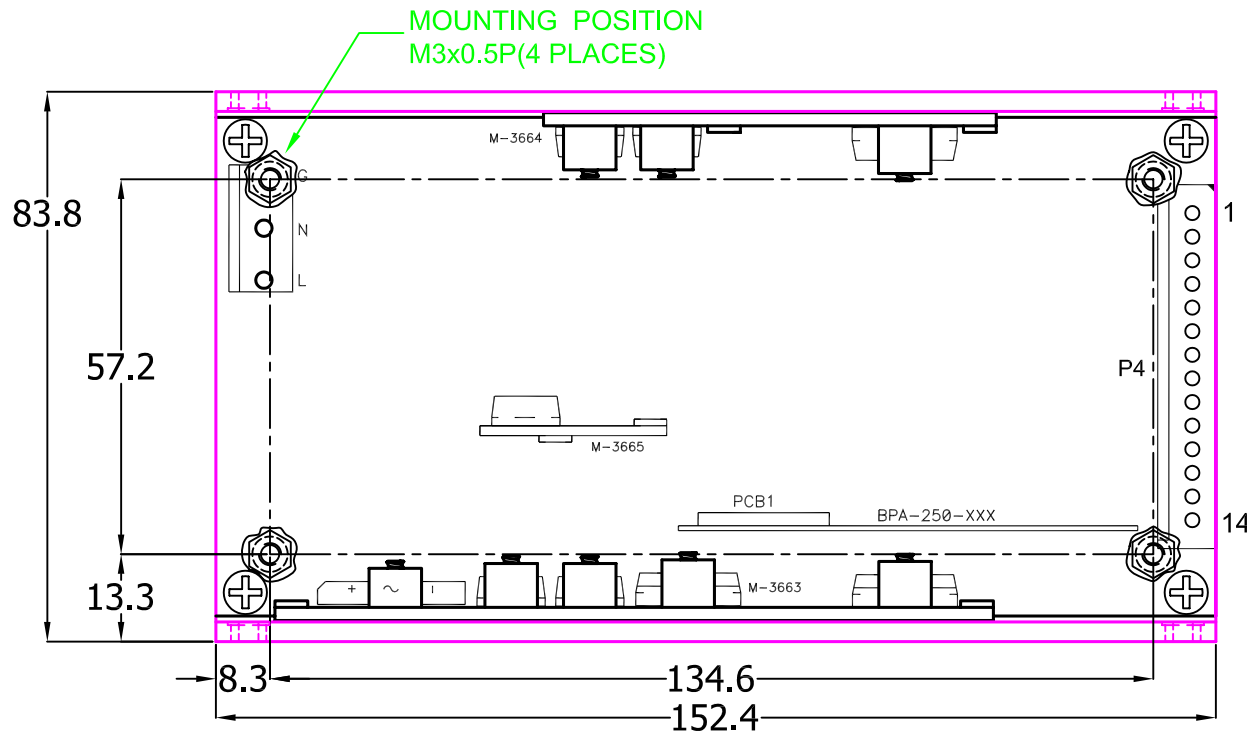
VOLTAGE/CURRENT RATING CHART (All configurations not shown)

Model #	Voltages *	Minimum	Maximum
BPA-250L-120-033	12V	0A	20.0A
	3.3V	0A	1.5A
BPA-250L-240-050	24V	0A	5.0A
	5V	0A	20.0A
BPA-250L-540-120	54V	0A	3.8A
	12V	0A	5.4A
BPA-250L-580-120	58V	0A	3.5A
	12V	0A	5.4A

*Isolated Output

Other output configurations available.

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



BLUTEK POWER

TITLE: OUTLINE DRAWING

UNIT	mm	REV. NO.	B1	SCALE		MAT'L	T=3.0mm	DRAWN		DRG. NO.	
THIRD				TOL.	±0.2	DATE	03-09-07	CHECKED		MODEL NO.	BPA-250L



IN/OUTPUT RATING & PIN ASSIGNMENT

MODEL NO. : BPA-250L Series

INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L :	100-240V~	5A	P1-3
N :			P1-2
GND :		50-440Hz	P1-1

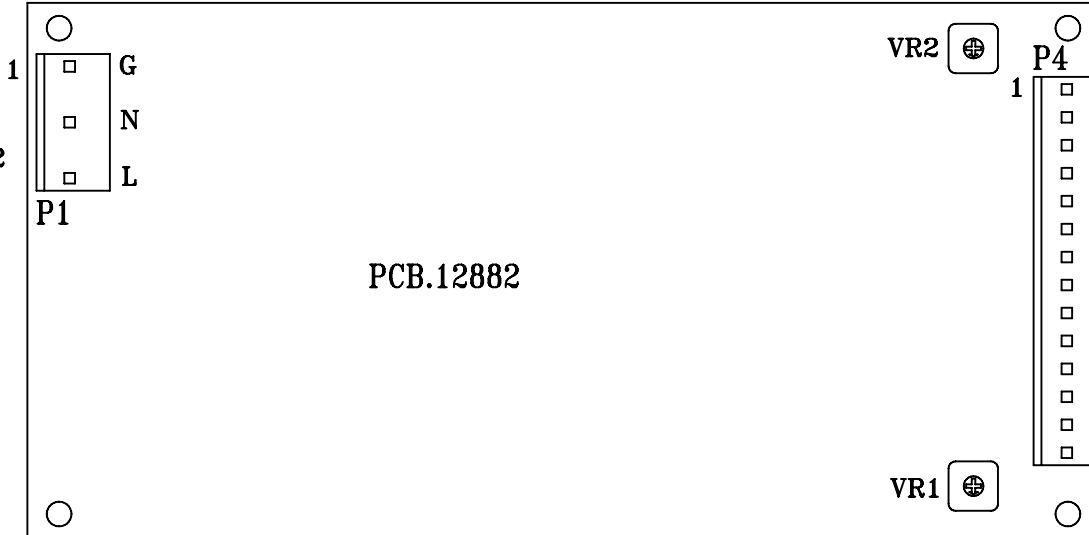
OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+V1:	See Voltage/Current Rating Chart		P4-11,12,13
DC COM:			P4-8, 9, 10
+V2:	See Voltage/Current Rating Chart		P4-2, 3, 4
V2RTN:			P4-5, 6, 7
+V1S:			P4-14
+V2S:			P4-1

MAXIMUM OUTPUT POWER: 250W

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0491
REV. NO.: A	DATE : 09. 18. 2007
DRAWN: dXö C. M. WU	CHECKED:

P1: Molex 26-60-4050
or LCU P3060-05-2



P4: Molex 26-60-4140
or LCU P3060-14