

Models: BPA-255-XXX

Total Power	400 Watts
Input Voltages	90-264 VAC
Outputs	Single

SPECIAL FEATURES

- 90+ Efficiency
- Active Power Factor Correction
- Isolated Output
- Wide Range Input
- Remote Sense
- Low profile height fits 1U constraints
- RoHS compliant
- **Custom modifications available**

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -40° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: -20° to +50°C continuous duty, full rating. Derate linearly to 70% of full rating at +85°C.

Cooling: 10 CFM Air Flow required for 400W; 255 Watts convection cooled.

SAFETY APPROVALS, to be applied

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



Picture for illustration, actual not shown.

- **400 Watts with 10CFM cooling**
- **90+ Efficiency**
- **High Density - 1U Profile - 5" 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..... 3.2A – 1.09A
 Isolation (Input to Output)..... 4242 VDC
 Isolation (VO1 to Gnd)..... 4242 VDC
 Efficiency.....90% @ 120 VAC
 Active PFC.....0.99
 Switching Frequency.....Variable
 Leakage..... <300uA

Output Specifications

DC Output..... Maximum continuous output power 400 Watts with 10-CFM fan cooling. 255 Watts convection cooled.

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
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Models: BPA-255-XXX

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
5"L x 3.3"W x 1.5"H
(152.4mm L X 83.82mm W X 38.1mm H)

(See attached outline drawing)

PIN ASSIGNMENTS

See attached Hook-up Drawing

CONNECTOR

Input Molex 26-60-4050

Output Molex 39-28-8140

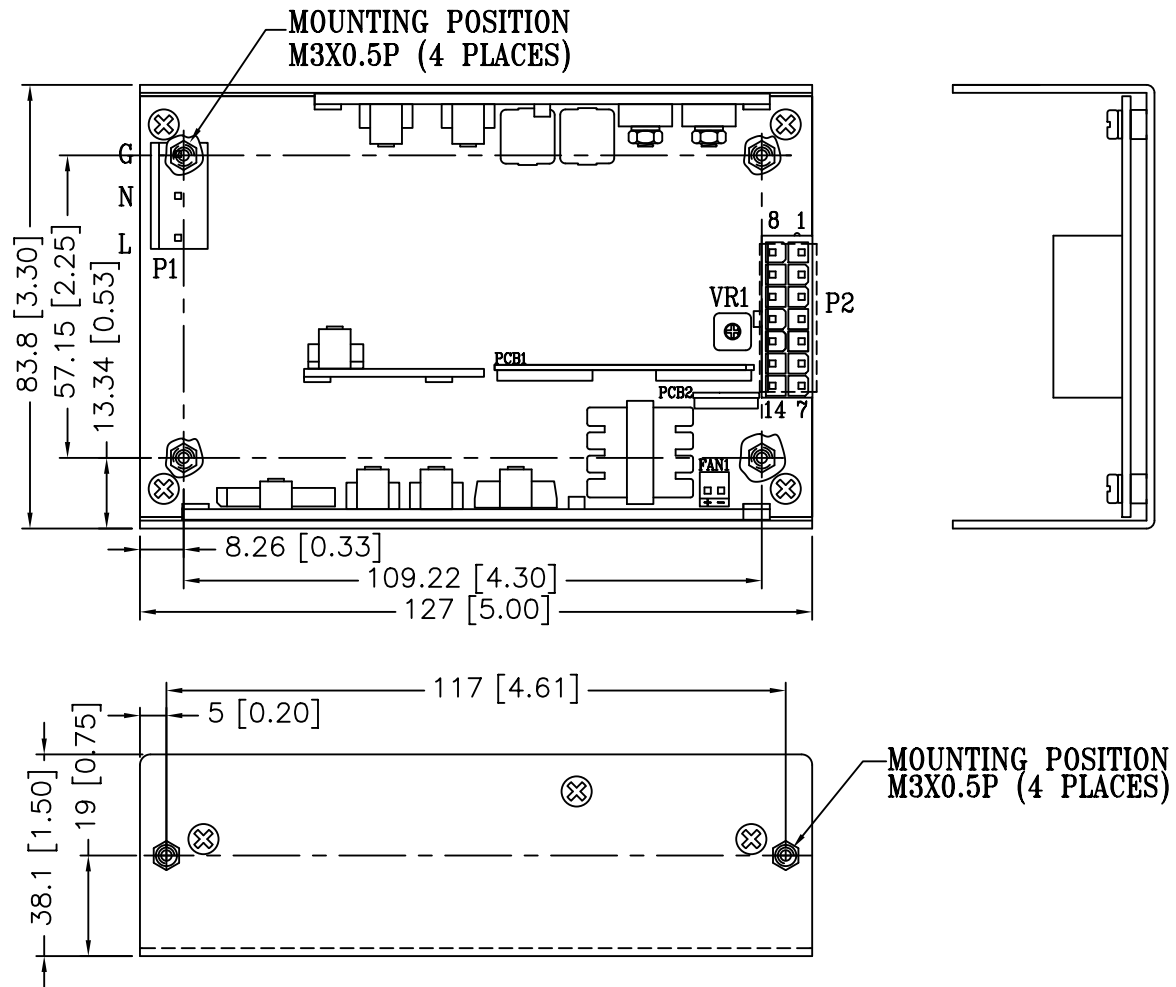
NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: 1.25 lbs.(est.)

VOLTAGE/CURRENT RATING CHART

Part Number	Voltage	Minimum With Air Flow 10cfm (400W)	Maximum With Air Flow 10cfm (400W)	Minimum Without Air Flow (255W)	Maximum Without Air Flow (255W)
BPA-255-090	+9V	0A	33.3A	0A	28.3A
BPA-255-120	+12V	0A	33.3A	0A	21.2A
BPA-255-150	+15V	0A	26.6A	0A	17.0A
BPA-255-240	+24V	0A	16.6A	0A	10.6A
BPA-255-280	+28V	0A	14.2A	0A	9.1A
BPA-255-360	+36V	0A	11.1A	0A	7.0A
BPA-255-480	+48V	0A	8.3A	0A	5.3A
BPA-255-580	+52V	0A	7.7A	0A	4.9A

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<i>BluTek Power</i>											
TITLE		OUTLINE DRAWING									
UNIT	mm[inches]	REV. NO.	A	SCALE	0.7 : 1	MAT'L	t=	DRAWN	JWI	DRG. NO.	BLU-453
THIRD				TOL.	± 0.5	DATE	11. 22. 2010	CHECKED		MODEL NO.	BPA-255-XXX



IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: JWIHU
REV. NO.: A	DATE : 11. 24. 2010
DRAWN: dXö C. M. WU	CHECKED:

MODEL NO. : BPA-255-XXX

INPUTS :

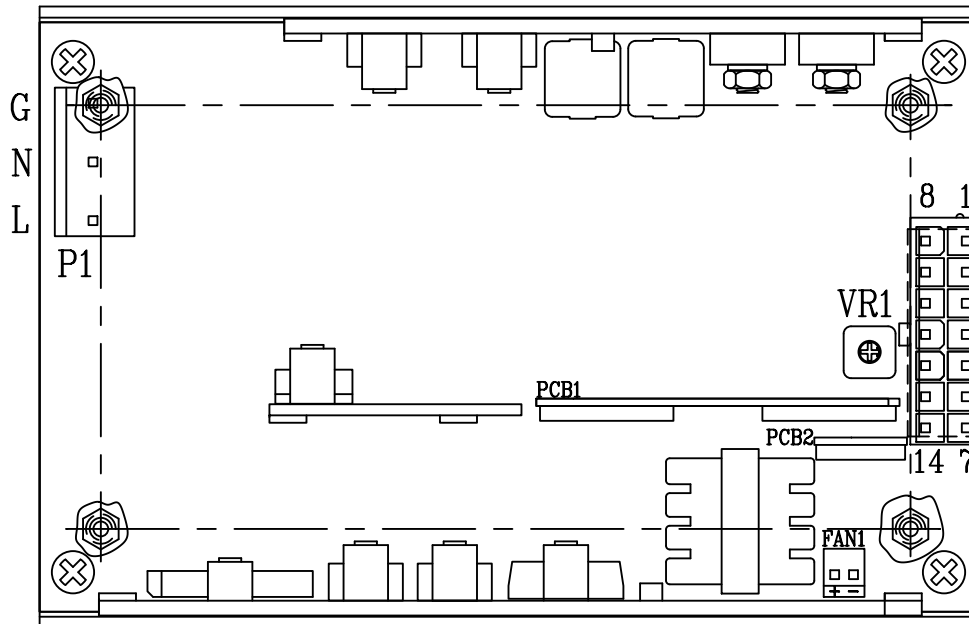
ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L :	100-240V~		P1-5
N :			P1-3
GND :		50-60Hz	P1-1

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	See Voltage/Current Rating Chart		P2-4,5,6,11,12,13
DC COM:			P2-1,2,3,8,9,10
+5VSB		2A	P2-14
P.OK			P2-7

MAXIMUM OUTPUT POWER: 400W

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



P2: Molex 39-28-8140