

Model: BPN-100 Single Output Series

Total Power	100 Watts
Input Voltages	90-264 VAC
Outputs	Single

SPECIAL FEATURES

- Wide Range Input
- UL, CUL, CB scheme and Demko approved.
- CE compliant
- Custom Modifications Available

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: $\pm 0.01\%$ / °C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating. Derate linearly to 50% of full rating at +71°C.

Cooling: 9-cfm fan cooling required

SAFETY APPROVALS

UL	60950
CUL	60950
DEMKO	EN60950



VOLTAGE/CURRENT RATING CHART

Model No.	Voltage	Amperage
BPN-100-12	3.3V	20A
BPN-100-13	5V	20A
BPN-100-14	12V	8.3A
BPN-100-15	15V	6.6A
BPN-100-16	24V	4.2A
BPN-100-17	28V	3.6A
BPN-100-18	36V	2.8A
BPN-100-19	48V	2.1A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....90-264 VAC
Frequency.....47-63 Hz
EMI filter.....EN55022 Class B, FCC Part 15
Inrush Current..... $\leq 32A$ @ 230 VAC
Input Current.....1.7 - 0.7A
Isolation.....4242 VDC (Input to Output)
Efficiency.....Typically 78% @ 120 VAC
Switching Frequency.....65 KHz.

Output Specifications

DC Output.....Maximum continuous output power 100 Watts with 9-cfm fan cooling.

Line Regulation..... $\pm 0.5\%$

Load Regulation..... $\pm 1\%$

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@blutekpower.com

BPN-100 Single Output Series Spec – 112905

Model: BPN-100 Single Output Series

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

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

Hold-Up Time.....20msec @ 115 VAC

OVP.....115% to 135%

Overload Protection.....The overload protection feature will reduce all output voltages 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

PCB Only

5.0"L x 3.0"W x 1.37"H

(127mm L X 76.2mm W x 35mm H)

U-Bracket

5.12"L x 3.17"W x 1.48"H

(130mm L X 80.5mm W x 37.5mm H)

PIN ASSIGNMENTS

Consult factory

CONNECTOR

AC input	Molex 09-65-2038 (Pin 2 is removed)
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DC output	Molex 09-65-2138
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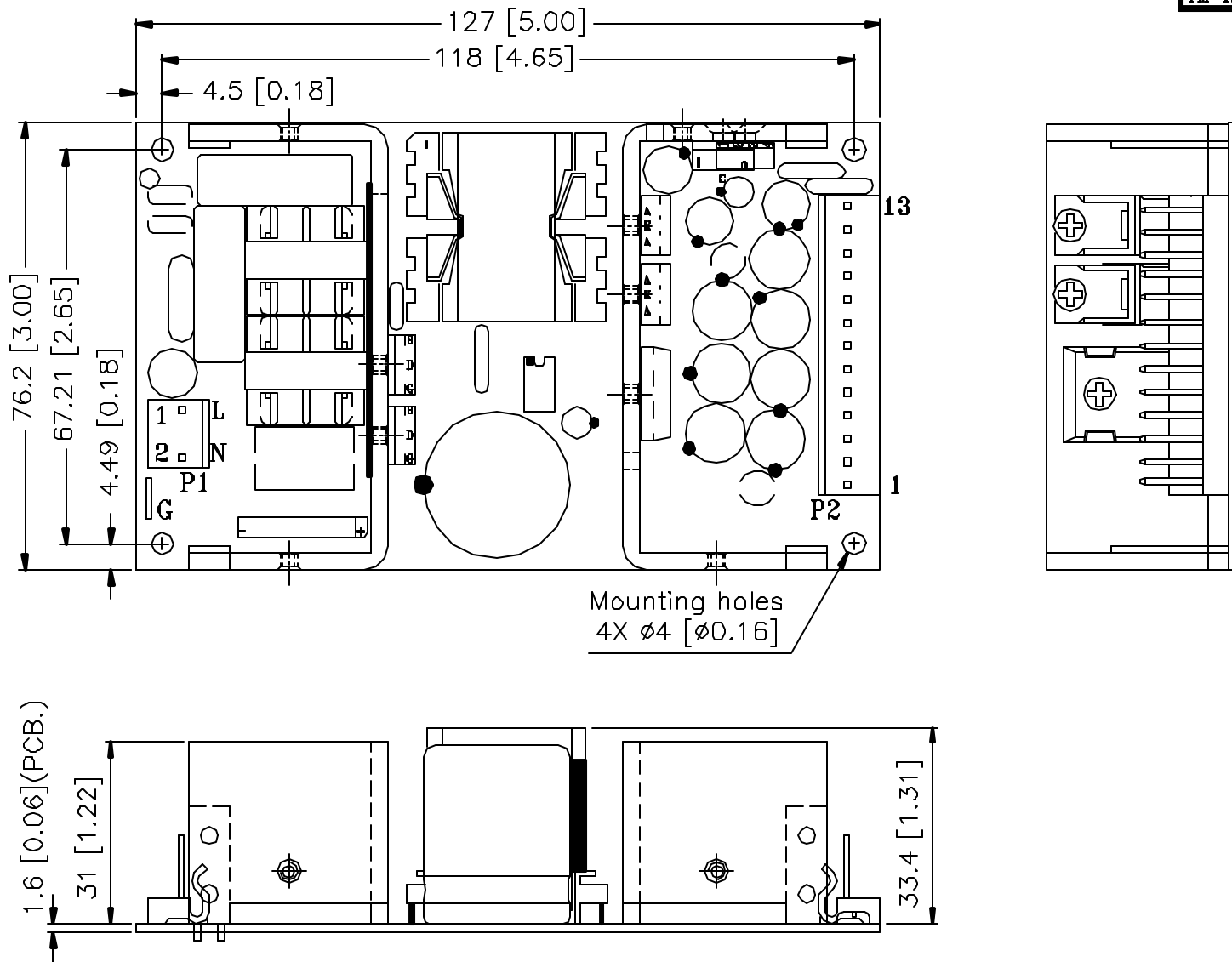
NOTES

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

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BPN-100 Single Output Series Spec – 112905

FM-4000-10/REV.D-080502'

*BluTek Power*

TITLE		PCB. OUTLINE DRAWING		
DRAWN	H. L. LIN	DRG. NO.	BLU-042	
CHECKED		MODEL NO.	BPN-100 Series	

UNIT	mm[inches]	REV. NO.	Ø	SCALE	1 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	09. 26. 2003