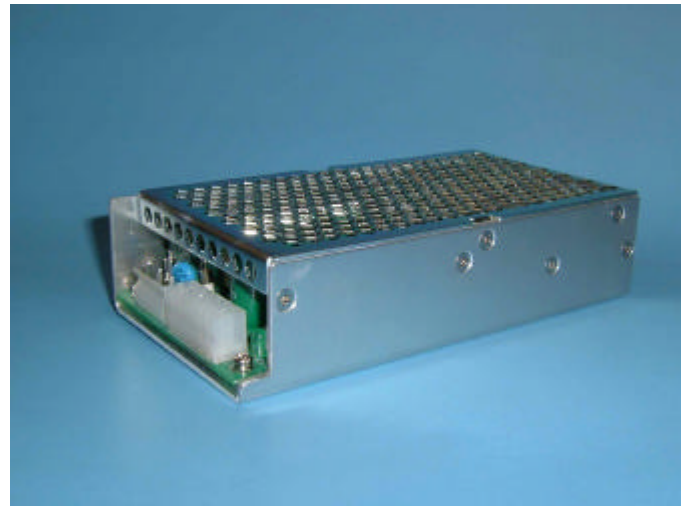


Model: BPA-100-XXXM Series

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



SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Medical Approval to UL, cUL and DEMKO to EN 60601-1
- CE compliant
- Low profile height fits 1U constraints
- Custom modifications available

- **100 Watts – Medical Approved**
- **High Density - 1U Profile**
- **Power Factor and Harmonic Current Correction**

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.

VOLTAGE/CURRENT RATING CHART*

Model No.	Voltage	Amperage
BPA-100-33M	3.3V	30A
BPA-100-50M	5V	20A
BPA-100-120M	12V	8.3A
BPA-100-150M	15V	6.6A
BPA-100-240M	24V	4.2A
BPA-100-280M	28V	3.5A
BPA-100-360M	36V	2.7A
BPA-100-480M**	48V	2.1A

*Additional output voltages available from 5.0V up to 55.4V

**Specifications are slightly different for 48V output. Please see BPA-100-480 Spec.

SAFETY APPROVALS

UL	60601-1
CUL	60601-1
DEMKO	EN60601-1

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....90-264 VAC
 Frequency.....47-63 Hz
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... ≤32A @ 230 VAC
 Input Current..... 1.6 - 0.47A
 Isolation.....4242 VDC (Input to Output)
 Efficiency.....73% to 81% @ 120 AC depending upon output voltage

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

Model: BPA-100-XXXM Series

ELECTRICAL SPECIFICATIONS (CONT')

Input Specifications

Active PFC.....0.99
Switching Frequency.....134 KHz.
Leakage.....< 100uA

Output Specifications

DC Output.....Maximum continuous
output power 100 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.

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

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

OVP.....Set at 115% to 135%

Short-circuit Protection.....Hiccup method

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.

Options:

InhibitA TTL low logic signal to
a pin 3 of the P2 connector will inhibit all outputs. Upon
release of the signal, outputs are restored.

OVERALL MECHANICAL DIMENSIONS

U-Bracket Only
6.12"L x 3.23"W x 1.46"H
(153.5mm X 82mm X 37mm)

U-Bracket with Cover
6.12"L x 3.23"W x 1.5"H
(153.5mm X 82mm X 38mm)

PIN ASSIGNMENTS

Consult Factory

CONNECTOR

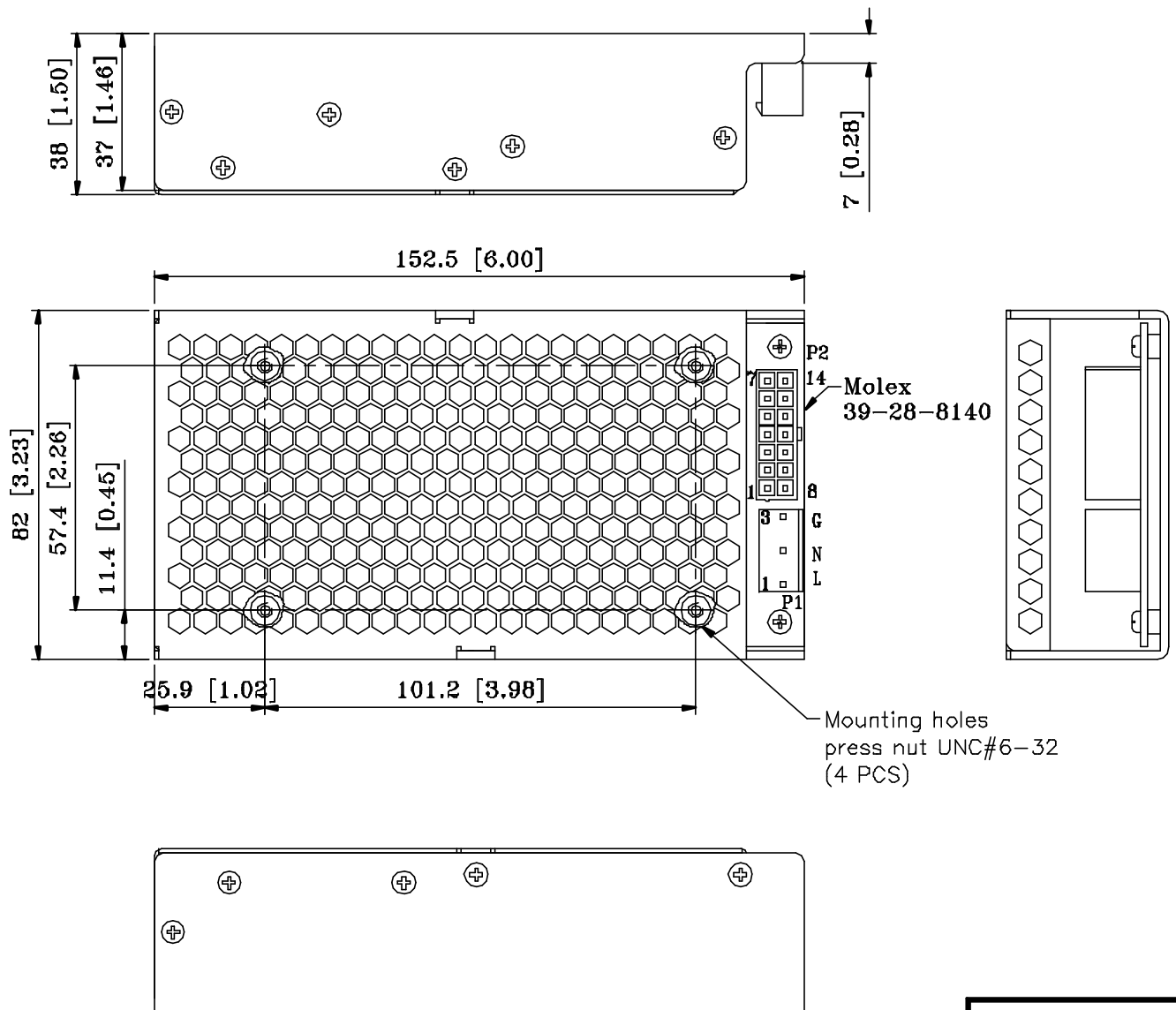
AC input Molex P/N 09-65-2058
(with pins 2 and 4 removed)

DC output Molex P/N 39-28-8140

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 1.4 lbs. (635 grams)

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salesteam@blutepower.com



<i>BluTek Power</i>			
TITLE			
OUTLINE DRAWING			
DRAWN	H. L. LIN	DRG. NO.	BLU-163
CHECKED		MODEL NO.	BPA-100-XXXM BPA-150-XXXM

UNIT	mm[inches]	REV. NO.	A	SCALE	0.7 : 1	MAT'L	t=
THIRD	\oplus	\neq		TOL.	± 0.2	DATE	12. 14. 2005