

Model: BPA-450-3924A

Total Power	450 Watts
Input Voltages	90-264 VAC
Outputs	Triple

SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Isolated 48V output
- PS Present
- Power good signal
- Power Disable
- Remote Sensing
- No minimum load requirement
- UL, CUL, and DEMKO Approvals
- 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

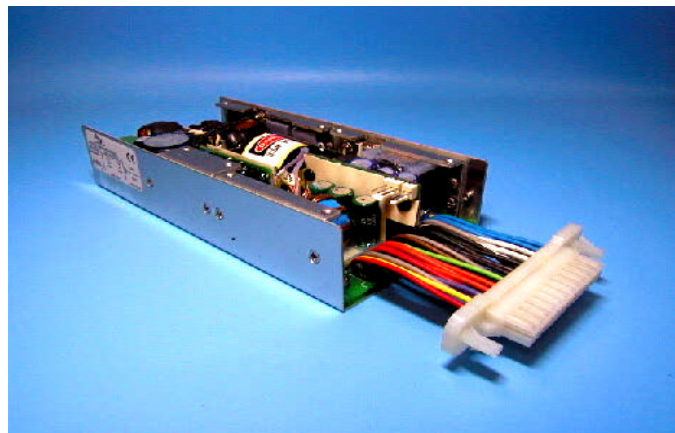
Temperature coefficient: $\pm 0.01\%$ / °C

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

Cooling: 18-CFM fan cooling required

SAFETY APPROVALS

UL	60950
CUL	60950
DEMKO	EN60950



- **450 Watts - High Density - 1U Profile**
- **Power Factor and Harmonic Current Correction**

VOLTAGE/CURRENT RATING CHART

Voltage	Minimum	Maximum	Peak
48V	0A	8.5A	10A
+3.3V	0A	20A	20A
+12V	0A	3A	3A

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.....6.3A – 2.3A
Isolation.....4242 VDC (Input to Output)
Efficiency.....77% @ 120 VAC
Active PFC.....0.99
Switching Frequency.....134KHz.

Output Specifications

DC Output.....Maximum continuous output power 450 Watts with 18-CFM fan cooling.

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

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

Model: BPA-450-3924A

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Load Regulation..... $\pm 1\%$ on all 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..... 20msec minimum

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

Short-circuit Protection..... Latching method. AC
must be recycled to restart the unit.

Overload Protection..... The power supply will
shut down when the output power rating exceeds 110%
to 130% of maximum rated output current. AC must be
recycled to restart the unit.

Remote Sensing..... On all outputs.

Power Good..... A TTL low logic signal is
provided when the input and output voltages are within
normal operating conditions.

Power Disable..... The secondary outputs
are enabled only upon mating pin P2-17 of the P2
connector to output common on the customer's
backplane.

PS Present..... A TTL low logic signal
to Pin 5 of the P2 connector will indicate that the power
supply is properly installed in the customer back plane.

OVERALL MECHANICAL DIMENSIONS

7"L x 3.31"W x 1.57"H
(177.8mm L x 84mm W x 40mm H)

See attached outline drawing.

PIN ASSIGNMENTS

See attached In/Output Rating and Pin Assignment
Chart

CONNECTOR

Input – Molex P/N 09-65-2038 with pin 3 removed

Output – Molex 15-06-0240

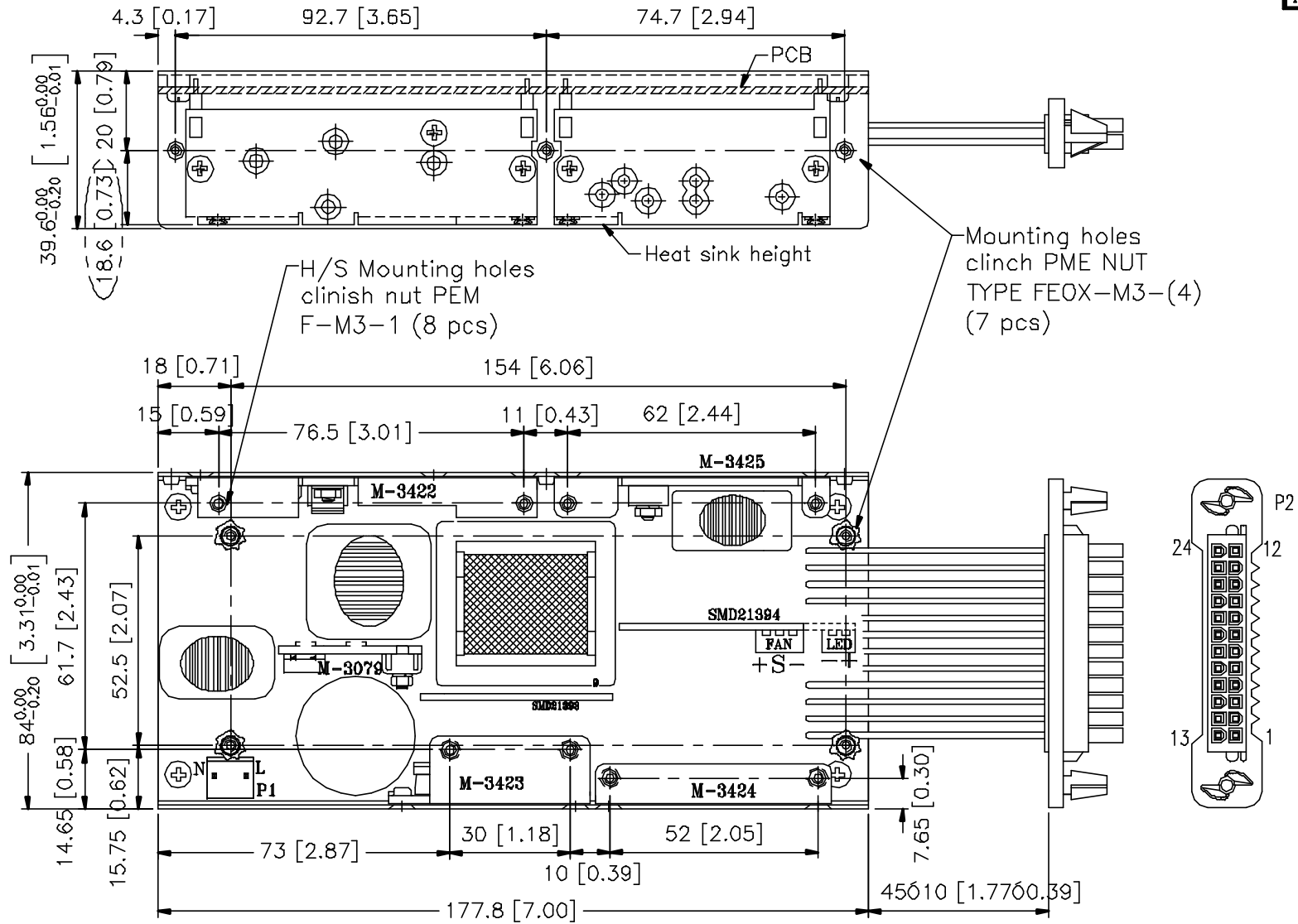
Fan – Tyco/AMP 640456-3

LED - Tyco/AMP 640456-2

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 2 lbs. 2 oz.

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BluTek Power

TITLE

OUTLINE DRAWING

DRAWN

H. L. LIN

DRG. NO.

BLU-043

CHECKED

MODEL NO. BPA-450-3924A

UNIT	mm[inches]	REV. NO.	J	SCALE	0.7 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	06. 03. 2005



MODEL NO. : BPA-450-3924A

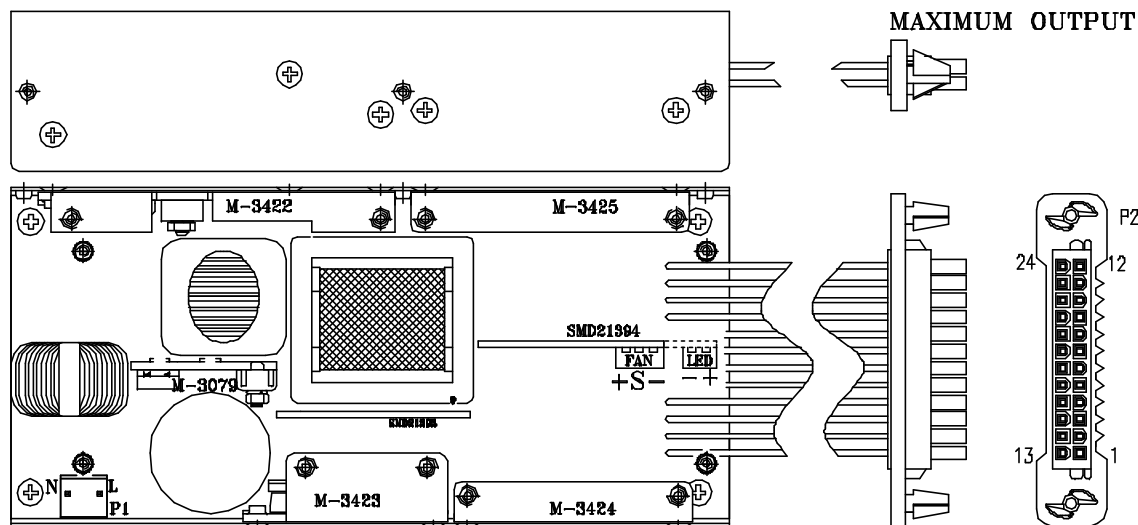
INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-240VAC~	6.3A	P1-L
N:			P1-N
G:		50-60Hz	Chassis

IN/OUTPUT RATING & PIN ASSIGNMENTOUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	+3.3V ---	20A	P2-4, 15, 16
V02:	+12V ---	3A	P2-13
DC COM:			P2-7, 8, 18, 19, 20
V03:	+48V ---	8.5A(PEAK:10A)	P2-11, 23, 24
V03 RET:			P2-9, 21, 22
+48VS(+):			P2-12
+48VS(-):			P2-10
+3.3VS(+):			P2-3
+3.3VS(-):			P2-6
+12VS(+):			P2-1
+12VS(-):			P2-2
P.D			P2-17
PS PRESENT			P2-5
P.G			P2-14

MAXIMUM OUTPUT POWER: 450W



SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0359
REV. NO.: J	DATE : 07. 21. 2004
DRAWN: ? ? ?	CHECKED:
H. L. LIN	