

Model: BPA-R500-6J

Total Power	500 Watts
Input Voltages	90-264 VAC
Outputs	Six



SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Power good signal
- P. S. On
- Single wire current sharing
- Remote Sensing
- No minimum load requirement
- UL, CUL, CB Scheme & Demko Approvals CE compliant

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: Self-contained fan cooling.

SAFETY APPROVALS

UL 60950
 CUL 60950
 Demko EN60950

VOLTAGE/CURRENT RATING CHART

Voltage	Minimum	Maximum	Peak
+5V	0A	60A	60A
+3.3V	0A	30A	30A
+12V	0A	30A	30A
-12V	0A	2A	2A
-5V	0A	0.3A	0.3A
+5VSB	0A	2A	2A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....90-264 VAC
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current.....<32A @ 264 VAC
 Input Current.....7.2A – 2.5A
 Isolation.....4242 VDC (Input to Output)
 Efficiency.....73% @ 120 VDC
 Active PFC.....0.99
 Switching Frequency.....134KHz.

Output Specifications

DC Output.....Maximum continuous output power 500 Watts with self-contained fan cooling.

Line Regulation.....±0.5%

Load Regulation.....±1% on all outputs

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

Model: BPA-R500-6J

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

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

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

Short-circuit Protection.....Latching method on all outputs except the 5V standby which utilizes the hiccup method. The AC input or P. S. On must be recycled to reset the unit.

Overload Protection.....If the output current rating exceeds 110% to 130% of the maximum rated output, the power supply will latch off all outputs except the 5V standby which utilizes the hiccup method. The AC input or P. S. On must be recycled to reset the unit.

Diode Isolation..... Internal diode isolation provided for N+1 redundant operation.

Current Sharing.....The +5V, +3.3V and +12V outputs will current share within 5% when interconnected by a single wire.

Remote Sensing.....+5V, +3.3V and +12V outputs only.

Power Good..... A TTL high logic signal is provided on pin P1-13 when the input and output voltages are within normal operating conditions.

P. S. On.....A TTL low logic signal will enable the power supply.

OVERALL MECHANICAL DIMENSIONS

6.36" L x 5.91" W x 3.0" H
(161.54mm X 150.1mm X 76.2mm)

PIN ASSIGNMENTS

See attached in/output rating and pin assignment sheet

CONNECTOR

AC Input

P3 - Molex 15-06-0040
or Molex 15-06-0041

DC Output

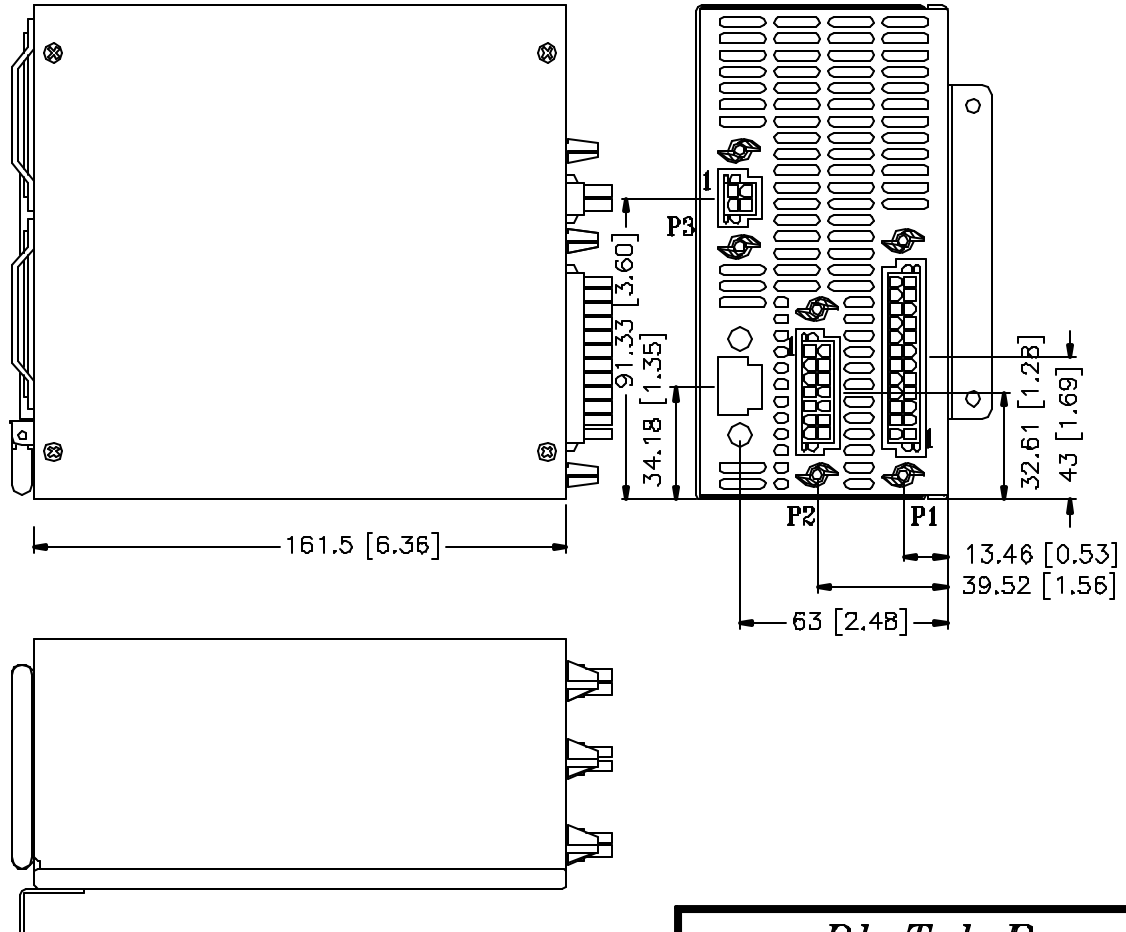
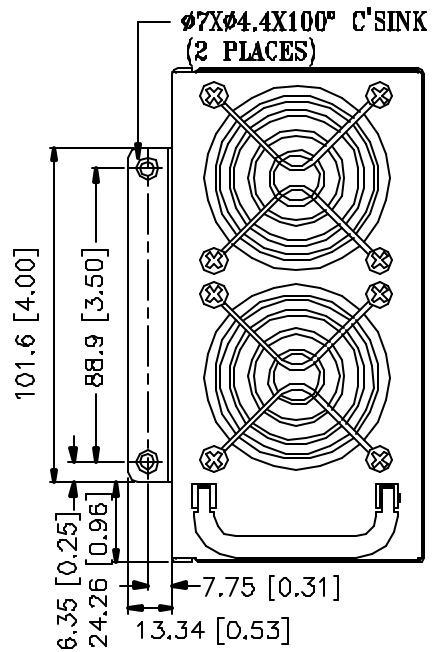
P1 - Molex 15-06-0240
or Molex 15-06-0241

P2 - Molex 15-06-0140
or Molex 15-06-0141

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 5 lbs.

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<i>BluTek Power</i>			
TITLE		ASSEMBLY	
DRAWN	C. M. WU	DRG. NO.	BLU-052
CHECKED		MODEL NO.	BPA-R500-6J

UNIT	mm[inches]	REV. NO.	A	SCALE	0.48 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	05. 27. 2004



MODEL NO. : BPA-R500-6J

INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-240V~	7.2A	P3-1
N:			P3-4
G:		50-60Hz	P3-3

IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT :mm[inches]	FILENAME: PPSC0375
REV. NO.: A	DATE : 12. 16. 2005
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	+5V ---	37A	P1-5,6,17,18 P2-1,5
V02:	+3.3V ---	35A	P1-11,12,24
V03:	+12V ---	30A(PK 37A)	P1-4,15,16 P2-3,7
V04:	-12V ---	1A	P1-2
V05:	-5 V ---	0.5A	P1-3
V06:	5VSB ---	2A	P1-14
DC COM:			P1-7,8,9,10,19,20,21,22,23 P2-2,4,6,8
+5VS:			P2-9
+5VI:			P2-10
+3.3VS:			P2-11
+3.3VI:			P2-12
+12VS:			P2-13
+12VI:			P2-14
PS_ON:			P1-1
MOD_GOOD:			P1-13

MAXIMUM OUTPUT POWER: 500W

- P1 : Molex 15-06-0241 or 15-06-0240
- P2 : Molex 15-06-0140 or 15-06-0141
- P3 : Molex 15-06-0040 or 15-06-0041

