

Model: BPD-500-6LA

Total Power	500 Watts
Input Voltages	36-72 VDC
Outputs	Six



SPECIAL FEATURES

- 36-72 VDC input
- RoHS compliant – LF designation on power supply label indicates RoHS compliance
- Power good signal
- PS On
- 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 60950

VOLTAGE/CURRENT RATING CHART

Voltage	Minimum	Maximum	Peak
+5V	0A	60A	60A
+3.3V	0A	30A	30A
+12V	0A	30A	36A
-12V	0A	2.0A	2.0A
-5V	0A	0.5A	0.5A
+5VSB	0A	2.0A	2.0A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....36-72 VDC
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... <40A @ 72 VDC
 Input Current.....19.5A – 9.4A
 Isolation.....2828 VDC (Input to Output)
 Efficiency.....73% @ 48 VDC
 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: BPD-500-6LA

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

Hold-Up Time..... 4 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 DC 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 DC input or P. S. On must be recycled to reset the unit.

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

Power Good..... A TTL high logic signal is provided on P1-8 when the input and output voltages are within normal operating conditions.

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

OVERALL MECHANICAL DIMENSIONS

6.3" L x 5.91" W x 3.39" H
(160mm X 150.1mm X 86mm)

See attached Outline Drawing

PIN ASSIGNMENTS

See attached In/Output Rating & Pin Assignment Sheet

CONNECTOR

DC Input - DINKLE P/N DT-55-B01-03

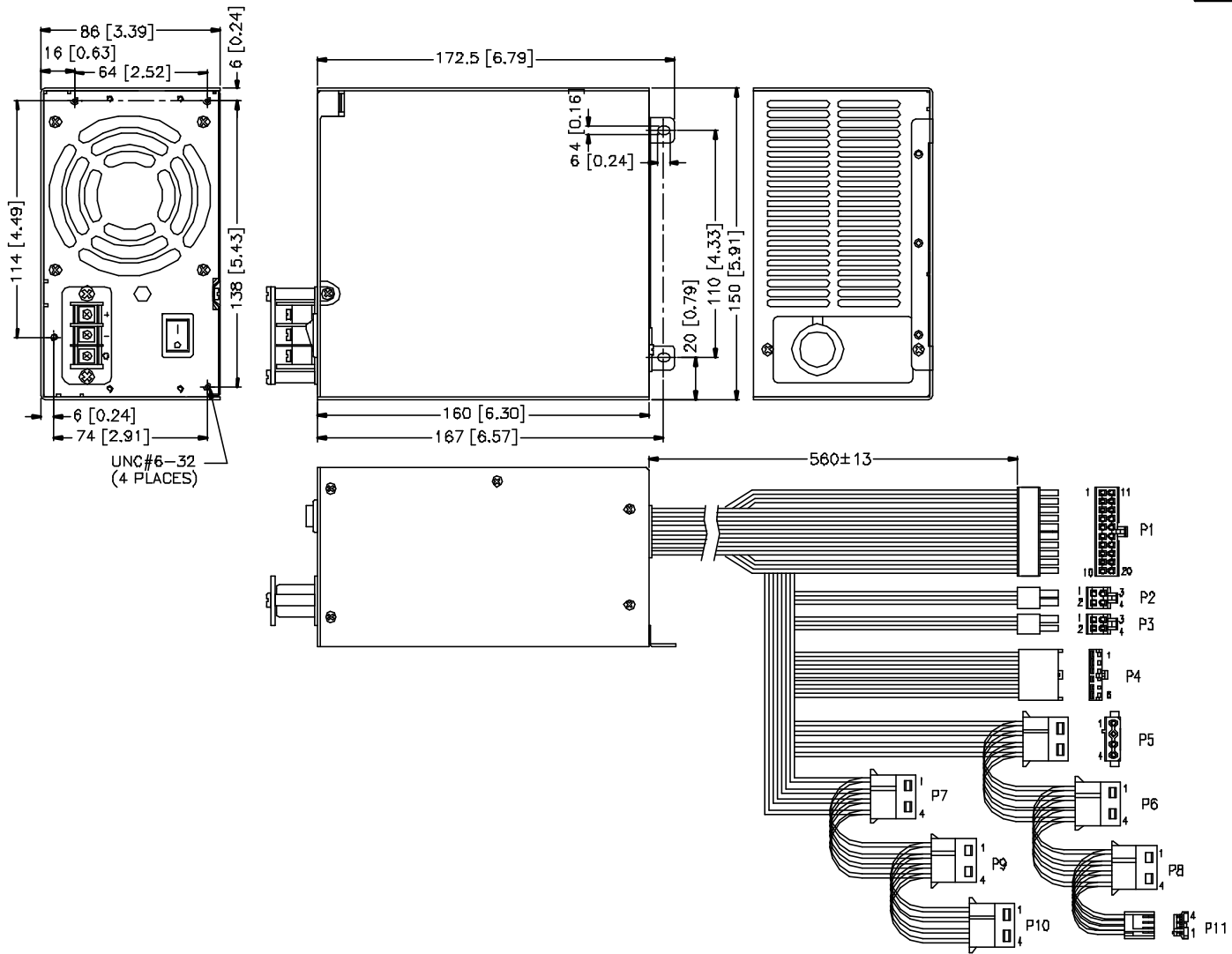
DC Output

P1	Molex P/N 39-01-2200
P2 & P3	Molex P/N 39-01-3042
P4	Molex P/N 90331-0003
P5, P6, P7, P8, P9 and P10	AMP P/N 1-480424-0
P11	CviLux P/N CI3504S0000

NOTES

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

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BluTek Power

TITLE OUTLINE DRAWING

UNIT	mm[inches]	REV. NO.	A	SCALE	0.34 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	08. 25. 2004

DRAWN	C. M. WU	DRG. NO.	BLU-0146
CHECKED		MODEL NO.	BPD-500-6LA



IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0415
REV. NO.: A	DATE : 08. 25. 2005
DRAWN: dXö C. M. WU	CHECKED:

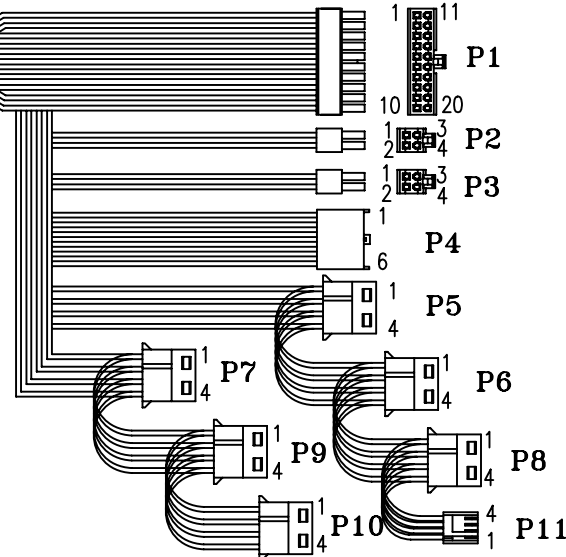
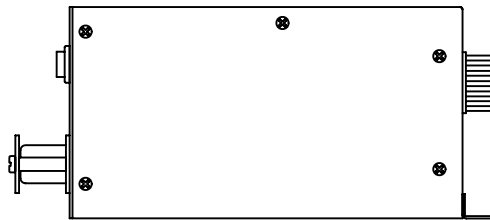
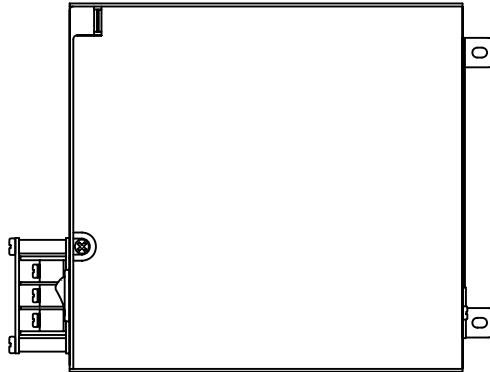
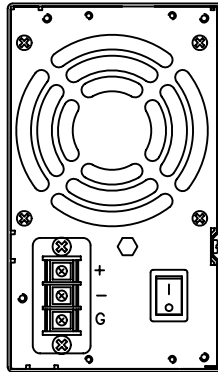
MODEL NO. : BPD-500-6LA

INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+: -----	36-72V ---	19.5A	+ -----
-: -----			- -----
G: -----			G -----

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	+5V ---	60A	P1-4,6,19,20 P4-1,2,3 P5,P6,P7,P8,P9,P10-4 P11-1
V02:	+3.3V ---	30A	P1-1,2,11 P1-10 P2,P3-3,4
V03:	+12V ---	30A	P5,P6,P7,P8,P9,P10-1 P11-4
V04:	-12V ---	2A	P1-12
V05:	-5V ---	0.5A	P1-18
+5VSB:		2A	P1-9
+5VS:			P1-20
+3.3VS:			P1-11
+12VS:			P1-10
P. OK:			P1-8
PS ON:			P1-14
DC COM:			P1-3,5,7,13,15,16,17 P2,P3-1,2 P4-4,5,6 P5,P6,P7,P8,P9,P10-2,3 P11-2,3



MAXIMUM OUTPUT POWER: 500W