

Model: BPD-R500-6J



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

SPECIAL FEATURES

- 36-72 VDC 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	60950

VOLTAGE/CURRENT RATING CHART

Voltage	Minimum	Maximum	Peak
+5V	0A	60A	60A
+3.3V	0A	30A	30A
+12V	0A	36A	36A
-12V	0A	2A	2A
-5V	0A	0.5A	0.5A
+5VSB	0A	2A	2A

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.

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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.

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 a to be determined pin 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

P1-5, 6, 17, 18.....+5V
P1-11, 12, 24.....+3.3V
P1-4, 15, 16.....+12V
P1-2.....-12V
P1-3.....-5V
P1-14.....5VSB
P1-7, 8, 9, 10, 19, 20, 21, 22, 23.....DC Common
P1-1..... PS_On
P1-13.....MOD_Good

P2-1, 5.....+5V
P2-3, 7.....+12V
P2-2, 4, 6, 8..... DC Common
P2-9.....+5V Sense
P2-10.....+5V Inhibit
P2-11.....+3.3V Sense
P2-12.....+3.3V Inhibit
P2-13.....+12V Sense
P2-14.....+12V Inhibit

P3-5, 6, 7.....-48VDC input
P3-1, 2, 3.....-48V Return
P3-4, 8.....Ground

CONNECTOR

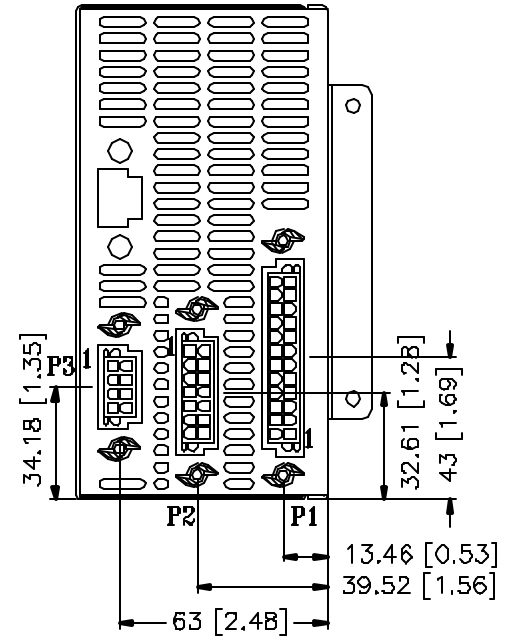
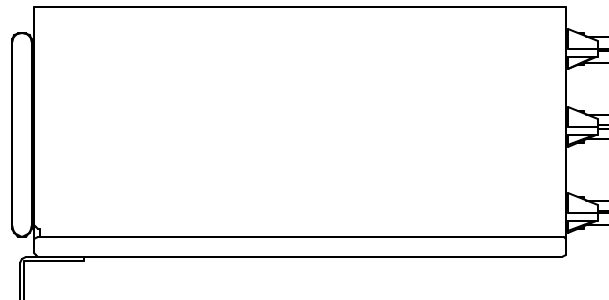
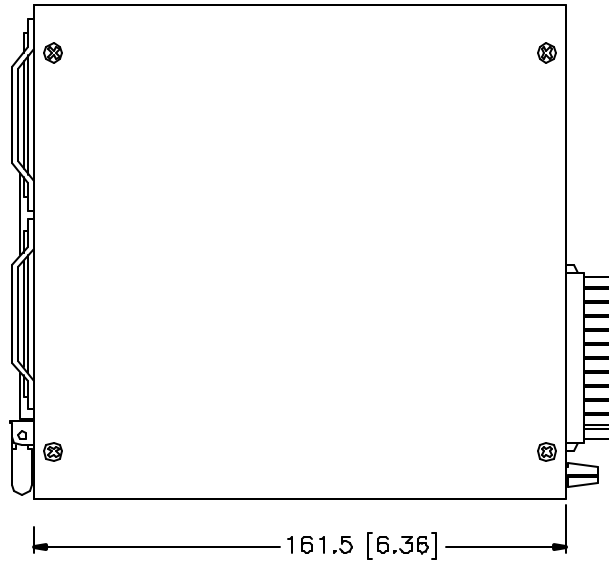
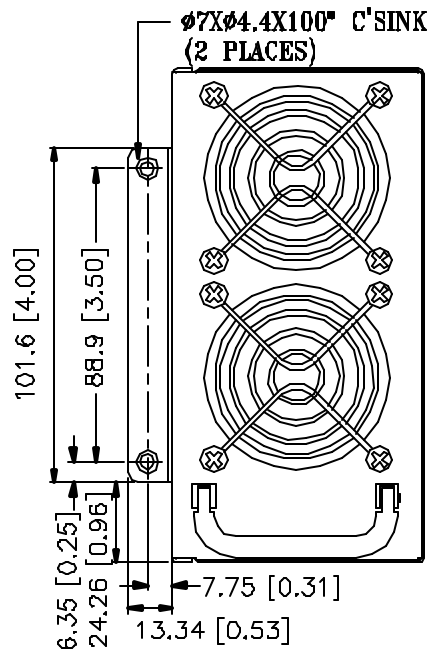
DC Input Molex 15-06-0080

DC Output Molex 15-06-0140
and
Molex 15-06-0240

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-112
CHECKED		MODEL NO.	BPD-R500-BJ

UNIT	mm[inches]	REV. NO.	A	SCALE	0.40 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	12. 06. 2004



MODEL NO. : BPD-R500-6J

INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
-48V return	-36V~ -72V===	19.5A	P3-1,2,3
-48V			P3-5,6,7
G			P3-4,8

IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080602'
UNIT :mm[inches]	FILENAME: PPSC0394
REV. NO.: D	DATE : 03. 09. 2005
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	+5V ===	60A	P1-5,6,17,18 P2-1,5
V02:	+3.3V ===	30A	P1-11,12,24
V03:	+12V ===	36A	P1-4,15,16 P2-3,7
V04:	-12V ===	2A	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

