

Model: BPD-520-7J

Total Power	520 Watts
Input Voltages	36-72 VDC
Outputs	Seven

SPECIAL FEATURES

- 36-72 VDC input
- Power good signal
- P. S. On
- Remote Sensing
- No minimum load requirement
- RoHS Compliant
- UL, CUL, CB Scheme & Demko
- 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
+12V1	0A	15A	17A
+12V2	0A	15A	17A
+12V3	0A	15A	18A
+5V	0A	30A	30A
+3.3V	0A	30A	30A
-12V	0A	2A	2A
+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..... 80% @ 48 VDC
 Switching Frequency.....134KHz.

Output Specifications

DC Output..... Maximum continuous output power 520 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
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BPD-520-7J Spec – 091907

Model: BPD-520-7J

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..... +3.3V output only.

Power Good..... A TTL high logic signal is provided 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

10.7" L x 4.1" W x 1.6" H
(272.26mm X 103.99mm X 39.5mm)

PIN ASSIGNMENTS

See attached hook-up drawing.

CONNECTORS

DC InputPositronic male PLB06M100A1/AA

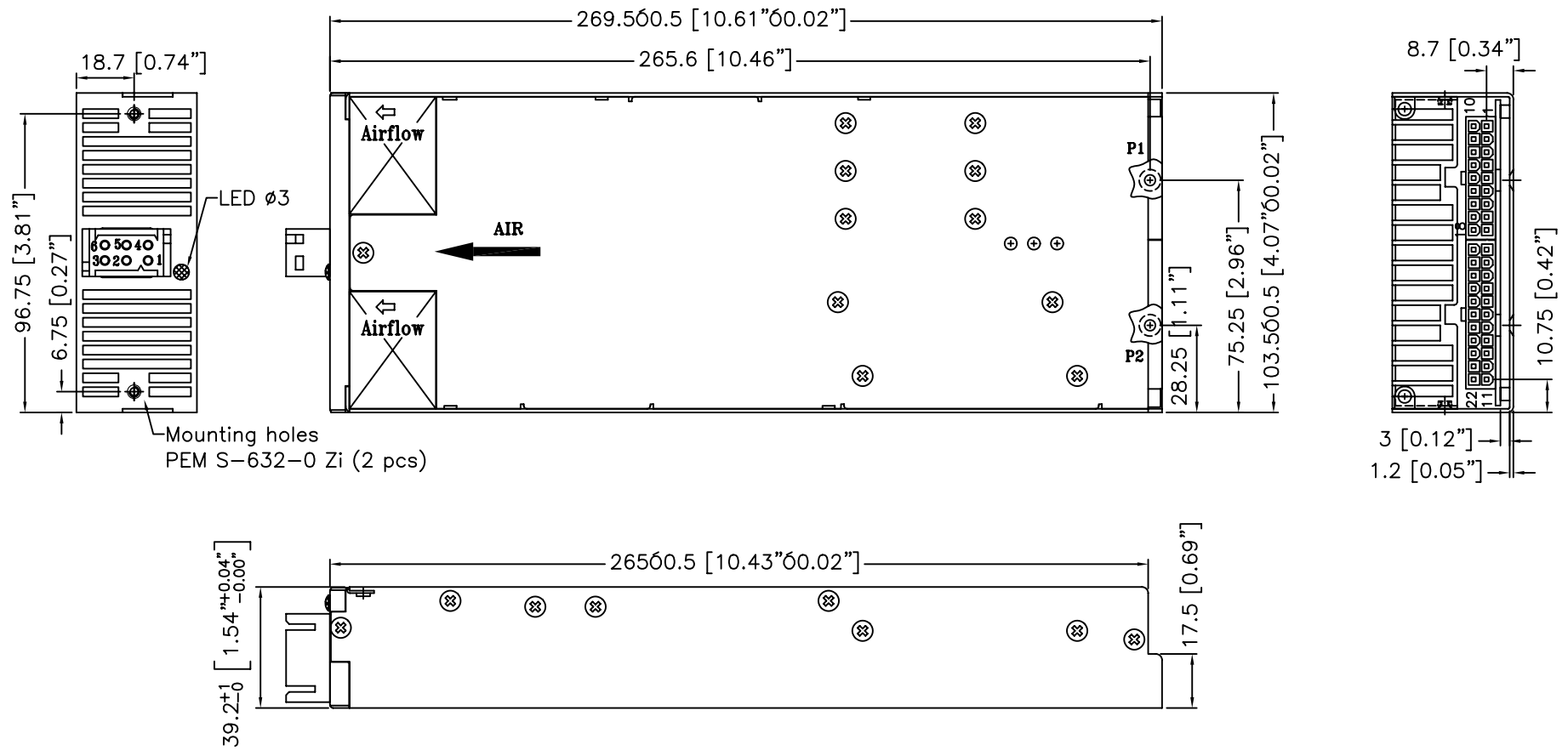
DC Output.....Molex 39-29-1228 and
Molex 39-29-1148

NOTES

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

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BluTek Power											
TITLE		OUTLINE DRAWING									
UNIT	mm[inches]	REV. NO.	C	SCALE	0.48 : 1	MAT'L	t=	DRAWN	H. L. LIN	DRG. NO.	BLU-215
THIRD	⊕	⚡		TOL.	± 0.2	DATE	05. 11. 2007	CHECKED		MODEL NO.	BPD-520-7J



IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'		
UNIT : mm[inches]	FILENAME: PPSC0465		
REV. NO.: C	DATE : 05. 11. 2007		
DRAWN: ? ? ? H. L. LIN	CHECKED:		

MODEL NO. : BPD-520-7J

INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+:	36-72V ---		Input connector-4,5
-:			Input connector-1,2
G:			Input connector-3,6

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT			PIN NBR
		Min.	Max.	Peak	
V01:	+12V ---	0A	15A	17A	P1-6,7,16 P2-11
V02:	+12V ---	0A	15A	17A	P1-5,14,15
V03:	+12V ---	0A	15A	18A	P1-2 P2-21
V04:	+5V ---	0A	30A		P1-4,13 P2-7,16,17
V05:	+3.3V ---	0A	30A		P1-3 P2-1,2,3,14
V06:	-12V ---	0A	2A		P2-10
+5VSB:		0 A	2 A	2 A	P2-13
DC COM:					P1-1,8,9,10,11,12,17,18
DC COM:					P2-6,8,9,12,18,19,20,22
PG:					P2-4
PS_ON:					P2-5
+3.3VS:					P2-15
NA:					P1-19,20,21,22

MAXIMUM OUTPUT POWER: 520W

Input connector:
Positronic PLB06M100A1/AA

