

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.

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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

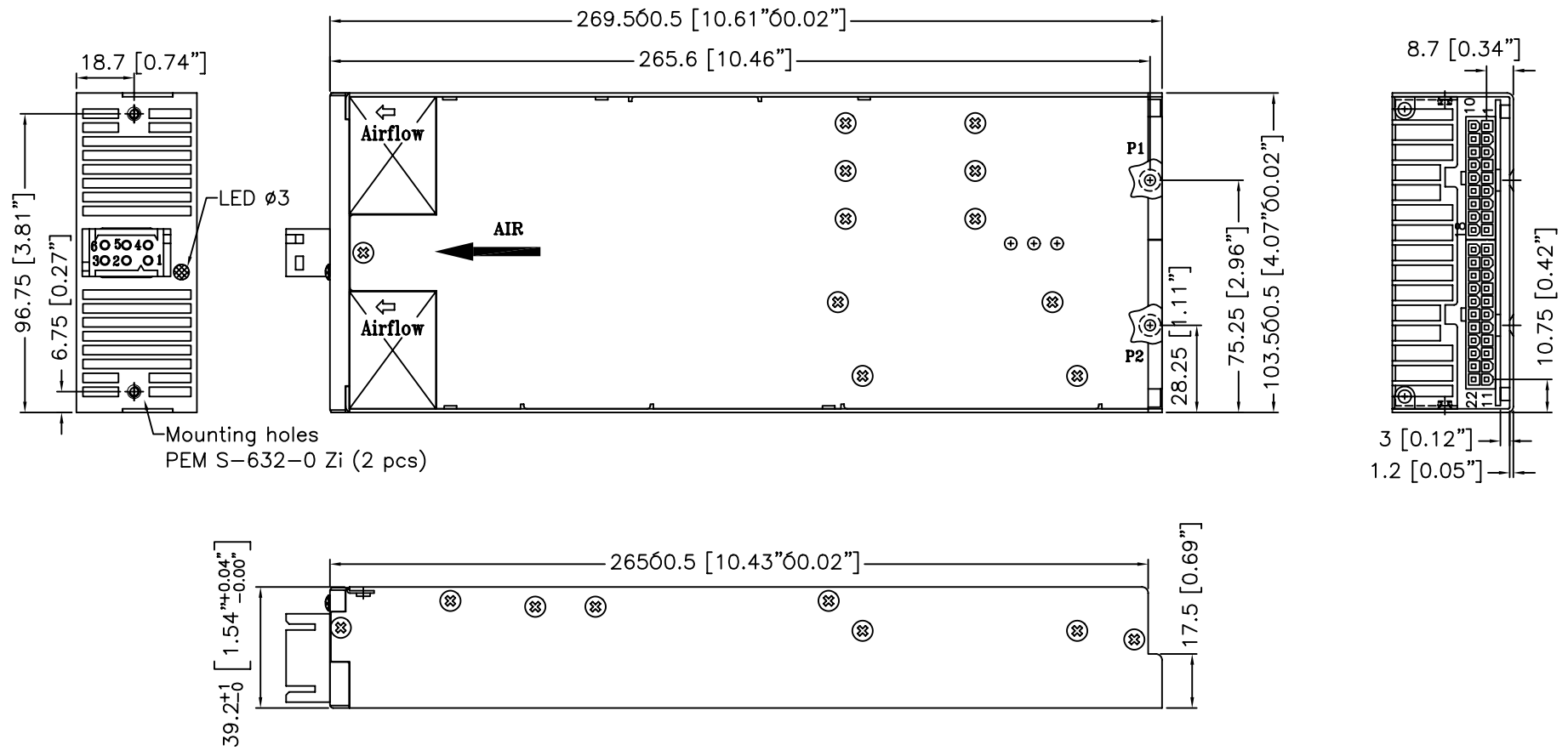
DC InputPositronic male PLB06M100A1/AA

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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|---------------------|------------|-----------------|---|-------|----------|-------|--------------|---------|-----------|-----------|------------|
| <i>BluTek Power</i> | | | | | | | | | | | |
| 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

