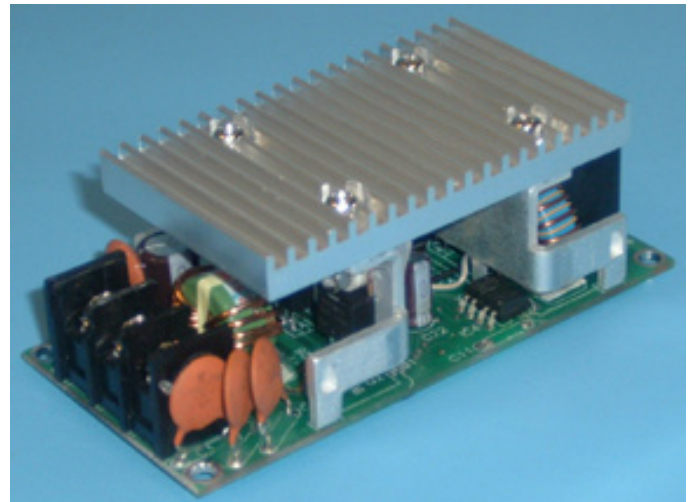


**Model: BPD-50-126**

Total Power	50 Watts
Input Voltages	18-45 VDC
Outputs	Single



**SPECIAL FEATURES**

- 18-45 VDC Input
- Under Voltage Lockout
- Reverse Voltage Protection
- RoHS compliant – LF designation on power supply label indicates RoHS compliance
- CE compliant
- Low profile height

**ENVIRONMENTAL SPECIFICATIONS**

Humidity: Up to 95% non-condensing

Storage Temperature: -40° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: -40 to +85°C

Cooling: Convection cooling

**VOLTAGE/CURRENT RATING CHART**

Voltage	Minimum	Maximum
+12.6V	0A	4A

**ELECTRICAL SPECIFICATIONS**

**Input Specifications**

Input Range.....18-45 VDC

EMI filter..... EN55022 Class B, FCC Part 15

Inrush Current.....<1.5 X Input current

Input Current..... 3.5A @ 18V

Isolation.....2828 VDC (Input to Output)

Efficiency.....80% typical

Under Voltage Lockout.....Power supply will shut down when the input voltage drops to below 17.5V.

Reverse Voltage Protection.....The power supply is protected against damage should a reverse voltage be applied to the input.

**Output Specifications**

DC Output.....Maximum continuous output power 50 Watts convection cooled

Line Regulation.....±0.5%

300-1 Route 17 South Suite B2  
 Lodi, NJ 07644  
 Phone: (973) 594-1800 Fax: (973) 594-1804  
[salesteam@blutekpower.com](mailto:salesteam@blutekpower.com)

## **Model: BPD-50-126**

### **ELECTRICAL SPECIFICATIONS (CONT')**

#### **Output Specifications**

Load Regulation..... $\pm 1\%$

Ripple and Noise.....1% Pk to Pk

Transient Response..... 2% Maximum deviation;  
returns to initial condition in 1 msec max.

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

OVP.....115% to 135%

Short Circuit Protection..... Will withstand a  
continuous short without damage. Will automatically  
return to regulation upon removal of short.

Overload Protection.....The overload protection  
feature will reduce the output voltages to a safe  
dissipation level when the output power rating exceeds  
125% of maximum rated power. The unit will  
automatically return to regulation upon removal of the  
overload.

No Load Operation.....No damage to supply  
when operating at no load.

### **OVERALL MECHANICAL DIMENSIONS**

4"L x 2"W x 1.39"H  
(101.6mm X 50.8mm X 35.4mm)

### **PIN ASSIGNMENTS**

(See attached In/Output Rating and Pin Assignment  
Sheet)

### **CONNECTORS**

Terminal Block connectors for input and output

### **NOTES**

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 0.5 lbs.

300-1 Route 17 South Suite B2  
Lodi, NJ 07644  
Phone: (973) 594-1800 Fax: (973) 594-1804  
[salesteam@blutekpower.com](mailto:salesteam@blutekpower.com)





MODEL NO. : BPD-50-126

INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+: -----	18-44 V		P1-1
-: -----			P1-2
GND: -----			P1-3

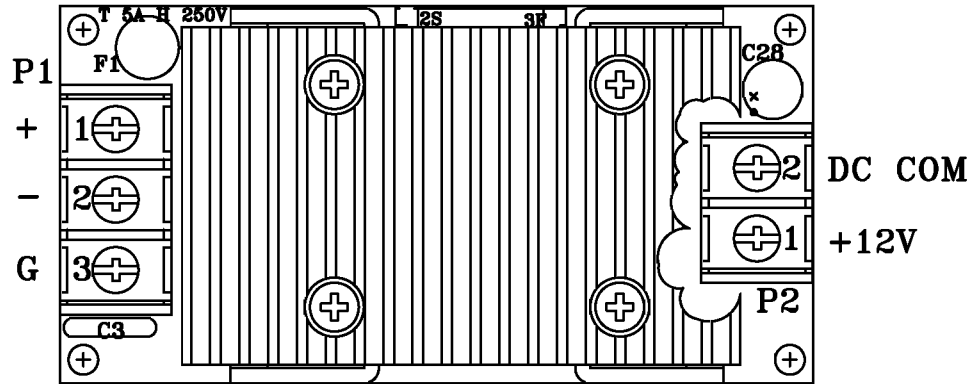
## IN/OUTPUT RATING & PIN ASSIGNMENT

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1: -----	+12V	5A	P2-1
DC COM: -----			P2-2

MAXIMUM OUTPUT POWER: 50W

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0420
REV. NO.: A	DATE : 02. 23. 2006
DRAWN: ? ? ? H. L. LIN	CHECKED:



PCB. 12833