

**Model: BPC1500 Chassis**

Total Power	750W(1 unit) – 1500W (2 units)
Input Voltages	90-264 VAC
Outputs	Single plus 5VSB

**SPECIAL FEATURES**

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Single wire current sharing
- Available in Single or Three Phase Inputs
- Diode isolation
- PS On
- Power Okay
- Inhibit
- I<sup>2</sup>C interface (optional)
- UL, CUL, and DEMKO Approvals
- CE compliant
- Custom modifications available

**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	606950
CUL	60950
DEMKO	EN60950



**OVERALL MECHANICAL DIMENSIONS**

11.41" L x 4.0" W x 4.4" H  
(290mm x 101mm x 110.1mm)

**ELECTRICAL SPECIFICATIONS**

**Input Specifications**

Input Range..... 90-264 VAC  
 Frequency..... 47-440 Hz  
 EMI filter..... EN55022 Class B, FCC Part 15  
 Inrush Current..... <32A @ 230 VAC  
 Input Current (1500W)..... 20.0A – 7.0A  
 Input Current (750W)..... 10.4A – 3.7A  
 Isolation..... 4242 VDC (Input to Output)  
 Efficiency..... 85% @ 120 VAC  
 Active PFC..... 0.99  
 Switching Frequency..... 134KHz.  
 Leakage..... < 3.5mA

**Output Specifications**

DC Output..... Maximum continuous output power 1500 Watts with self-contained fan cooling.  
 Line Regulation..... ±0.05%  
 Load Regulation..... ±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.



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**ELECTRICAL SPECIFICATIONS (CONT')**

**Output Specifications**

Hold-Up Time..... 20msec minimum

OVP.....115% to 135% on VO1 output only.

Short-circuit Protection.....Constant current with delayed latching method on VO1 output. The 5VSB utilizes the hiccup method.

Overload Protection.....Constant current with delayed latching method on VO1 output. The 5VSB utilizes the hiccup method. The constant current method allows for a 5-second delay before the power supply shuts down if the output current rating exceeds 110% to 130% of maximum rated output current. The AC must be recycled or the PS ON reset to restart the unit.

Diode Isolation..... Internal FET isolation provided for N+1 redundant operation.

Current Sharing.....Outputs will current share within 5% when interconnected by a single wire.

PS On.....The secondary outputs are enabled only upon mating pin P2-12 to output common on the customer's backplane.

Power Okay..... A TTL high logic signal is provided on pin P2-4 when the input and output voltages are within normal operating conditions.

Inhibit .....A TTL low logic signal sent to pin P2-9 inhibits all outputs except the 5VSB. Upon release of the signal, outputs are restored.

I<sup>2</sup>C (Optional)..... Monitors: Power Good, Voltage, Current, Temperature, and Fan

**CONNECTOR**

AC input – Terminal Blocks  
 DC output – Bus Bars  
 Output Connector - Molex 39-31-0120

**PIN ASSIGNMENTS**

See attached Hook-Up Drawing

**NOTES**

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 8.5 lbs

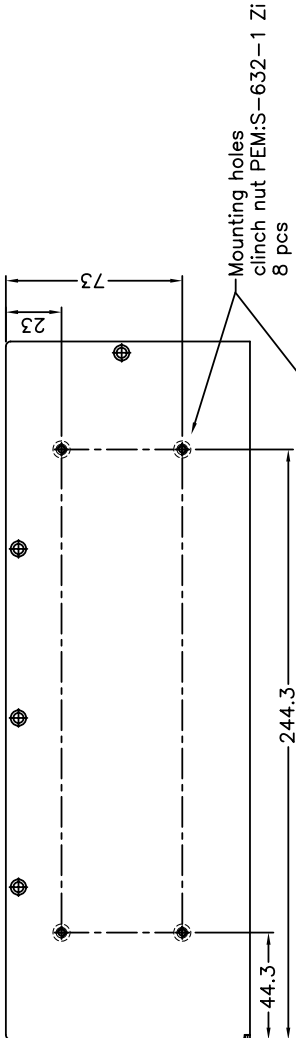
**VOLTAGE/CURRENT RATING CHART (750W)**

Part Number	Assignment	Voltage	Minimum	Maximum
BPC1500-120-1	VO1	+12.0V	0A	62.5A
	5VSB	+5V	0A	2.0A
BPC1500-280-1	VO1	+28V	0A	26.8A
	5VSB	+5V	0A	2.0A
BPC1500-480-1	VO1	+48V	0A	15.6A
	5VSB	+5V	0A	2.0A
BPC1500-580-1	VO1	+58V	0A	12.9A
	5VSB	+5V	0A	2.0A

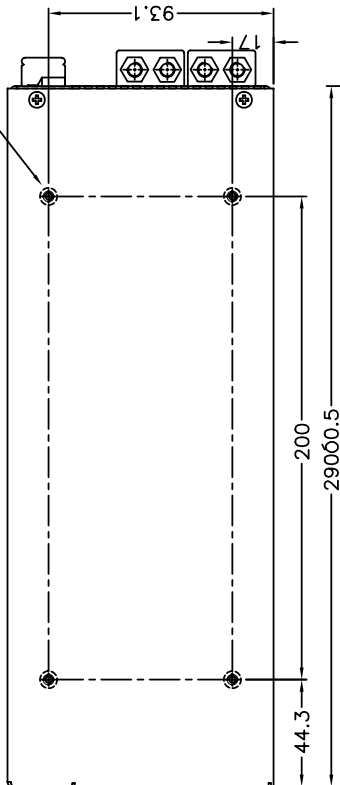
**VOLTAGE/CURRENT RATING CHART (1500W)**

Part Number	Assignment	Voltage	Minimum	Maximum
BPC1500-120-2	VO1	+12.0V	0A	125.0A
	5VSB	+5V	0A	2.0A
BPC1500-280-2	VO1	+28V	0A	53.6A
	5VSB	+5V	0A	2.0A
BPC1500-480-2	VO1	+48V	0A	31.3A
	5VSB	+5V	0A	2.0A
BPC1500-580-2	VO1	+58V	0A	25.9A
	5VSB	+5V	0A	2.0A

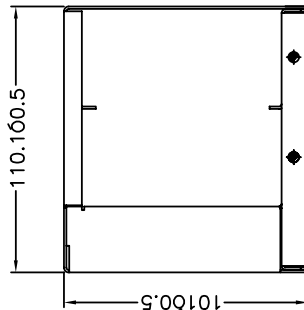
*All Voltages Available from 12V to 58V*



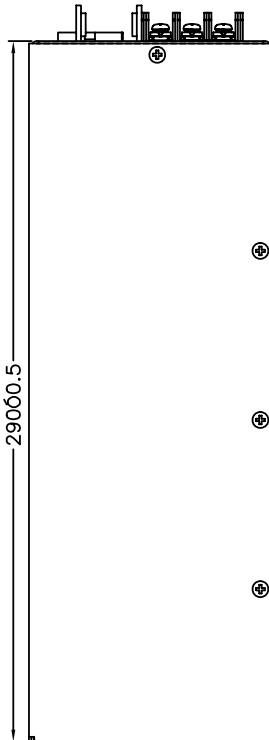
LEFT SIDE VIEW



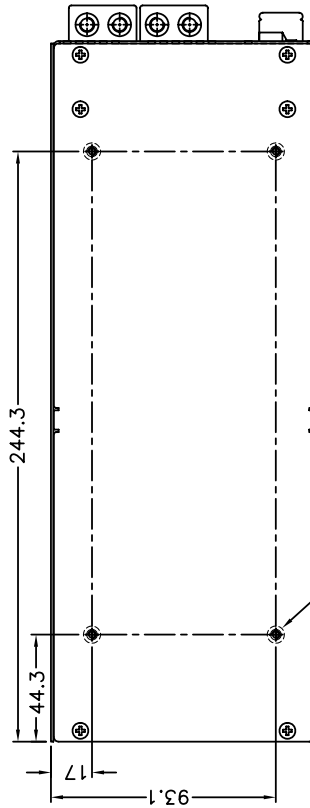
TOP VIEW



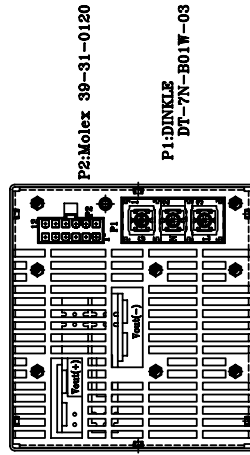
FRONT VIEW



RIGHT SIDE VIEW



BOTTOM VIEW



REAR VIEW  
(with rear panel)

*Autec Power Systems*

<b>T I T L E</b>				<b>OUTLINE DRAWING</b>	
<b>DRAWN</b>	<b>H. L. LIN</b>	<b>DRG. NO.</b>	<b>BLU-201</b>	<b>CHECKED</b>	<b>MODEL NO.</b>
					<b>BPC1500</b>

<b>UNIT</b>	<b>mm[inches]</b>	<b>REV. NO.</b>	<b>A1</b>	<b>SCALE</b>	<b>0.34 : 1</b>	<b>MAT'L</b>	<b>t=</b>	<b>DATE</b>	<b>08. 22. 2006</b>
<b>THIRD</b>				<b>TOL.</b>	<b>±</b>				

**~ SAMPLE**



MODEL NO. : BPC1500 Chassis

INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-240V~		P1-3
N:			P1-2
GND:		50-60Hz	P1-1

### IN/OUTPUT RATING & PIN ASSIGNMENT

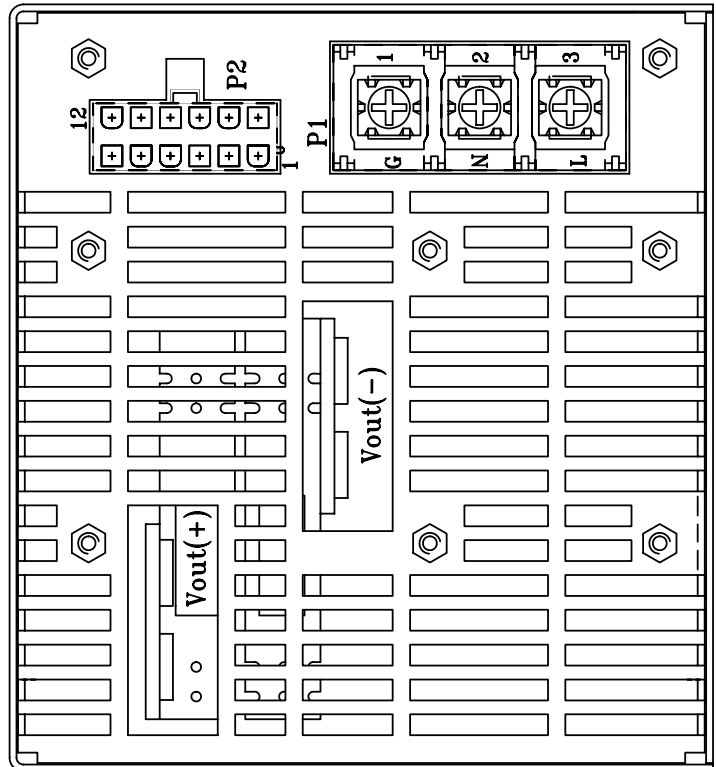
SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0454
REV. NO.: A	DATE : 08. 22. 2006
DRAWN: ? ?	CHECKED:
H. L. L/N	

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
Vout(+):			Bus bar
Vout(-):			Bus bar
SDA:			P2-1
5VSB:			P2-2,3
P.OK:			P2-4
SDL:			P2-5
COM:			P2-6
-V01S:			P2-7
+V01S:			P2-8
INH:			P2-9
V01CS:			P2-10
TEMP:			P2-11
PS_ON:			P2-12

MAXIMUM OUTPUT POWER: 1500W

P2:Molex 39-31-0120



P1:DINKLE  
DT-7N-B01W-03