



Model: SP-250-XXX

Total Power	250 Watts
Input Voltage	90-264 VAC
Outputs	Single

SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Remote Sense
- UL, cUL, and DEMKO
- CE Compliant
- Low profile height fits 1U constraints
- Custom Modifications Available

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -40° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: -40° to +60 °C
 Continuous duty, full rating. Derate linearly to 50% of full rating at +85°C.

Cooling: 250 Watts with 10 CFM forced air-cooling and 100 Watts convection cooled.

SAFETY APPROVALS

UL	60950
CUL	60950
DEMKO	EN60950

- 250 Watts
- High Density- 1U Profile – 5” x 3.3” x 1.5”
- Power Factor and Harmonic Current Correction

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....	90-264 VAC
Frequency.....	47-63 Hz
EMI filter.....	EN55022 Class B, FCC Part 15
Inrush Current.....	≤32A @ 230 VAC
Input Current.....	2.9 – 0.95A
Isolation.....	4242 VDC (Input to Output)
Efficiency.....	80% @ 120 VAC
Active PFC.....	0.99
Switching Frequency.....	134 KHz
Leakage.....	<300uA

Output Specifications

DC Output.....Maximum continuous output power 250 Watts with 10-CFM fan cooling. 100 Watts convection cooled.

Line Regulation.....±0.5 %

Load Regulation.....±1%

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

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



Model: SP-250-XX

ELECTRICAL SPECIFICATONS (cont.).

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

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

OVP.....Set at 115% to 135%.

Latching method. AC must be recycle to restart the unit.

Short-circuit Protection.....The unit will withstand a continuous short without damage. It will automatically return to regulation upon removal of the short.

Overload Protection.....The overload protection feature will reduce the output voltage 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.

OVERALL MECHANICAL DIMENSIONS

U-Bracket Construction
5”L x 3.3”W x 1.5”H
(127mm L x 83.82mm W x 38.1mm H)

(See attached outline drawing)

PIN ASSIGNMENTS

See attached In/output Rating and Pin Assignment Sheet

CONNECTOR

Input Molex 26-40-4050

Output Molex 26-40-4120

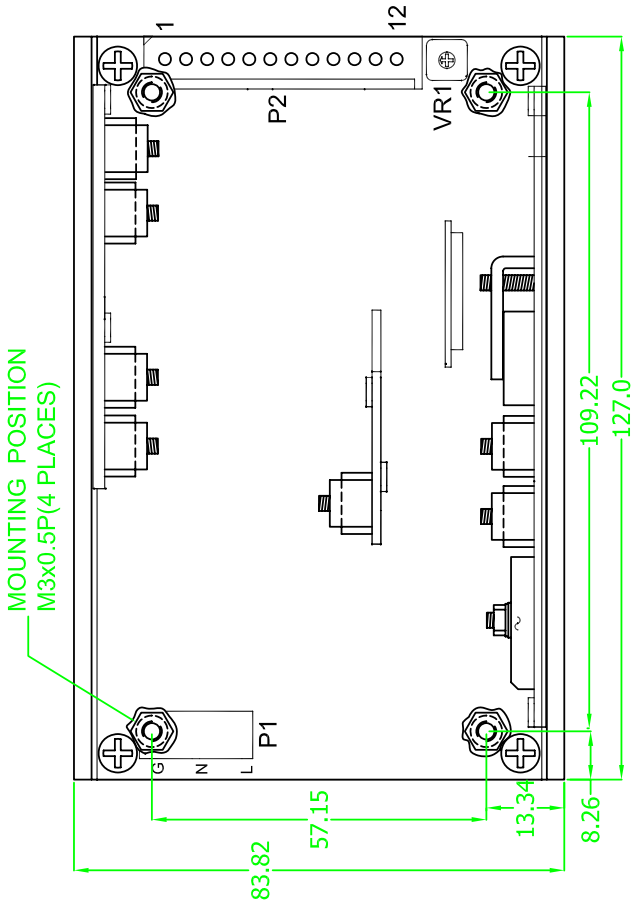
NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 1.25 lbs.

Voltage/Current Rating Chart

Part Number	Voltage	Minimum	Maximum
SP-250-090	+9.0V	0A	27.8A
SP-250-120	+12.0V	0A	20.8A
SP-250-150	+15.0V	0A	16.7A
SP-250-200	+20.0V	0A	12.5A
SP-250-240	+24.0V	0A	10.4A
SP-250-280	+28.0V	0A	8.9A
SP-250-360	+36.0V	0A	6.9A
SP-250-480	+48.0V	0A	5.2A
SP-250-580	+58.0V	0A	4.3A

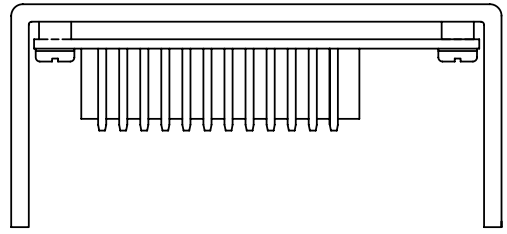
*Other voltages are available



MOUNTING POSITION
M3x0.5P(4 PLACES)

MOUNTING POSITION
M3x0.5P (4 PLACES)

1,2,3,4,5	DC COM
6,7,8,9,10	+VO1
11	+S
12	-S



Autec Power Systems, Inc.

OUTLINE DRAWING

UNIT	mm	REV. NO.	B1	SCALE	MATL	T=3.0mm	DRAWN	DRG. NO.
THIRD	\varnothing	∇		TOL.	± 0.2	DATE	CHECKED	MODEL NO.
						04.21.2006		SP - 250

Autec Power Systems, Inc.

IN/OUTPUT RATING & PIN ASSIGNMENT

MODEL NO.: SP-250 Series

INPUTS:

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

OUTPUTS:

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
DC COM			P2-1,2,3,4,5
VO1: See Voltage/Current Rating Chart			P2-6,7,8,9,10
+S			P2-11
-S			P2-12

MAXIMUM OUTPUT POWER: 250W

SIZE:

UNIT:mm

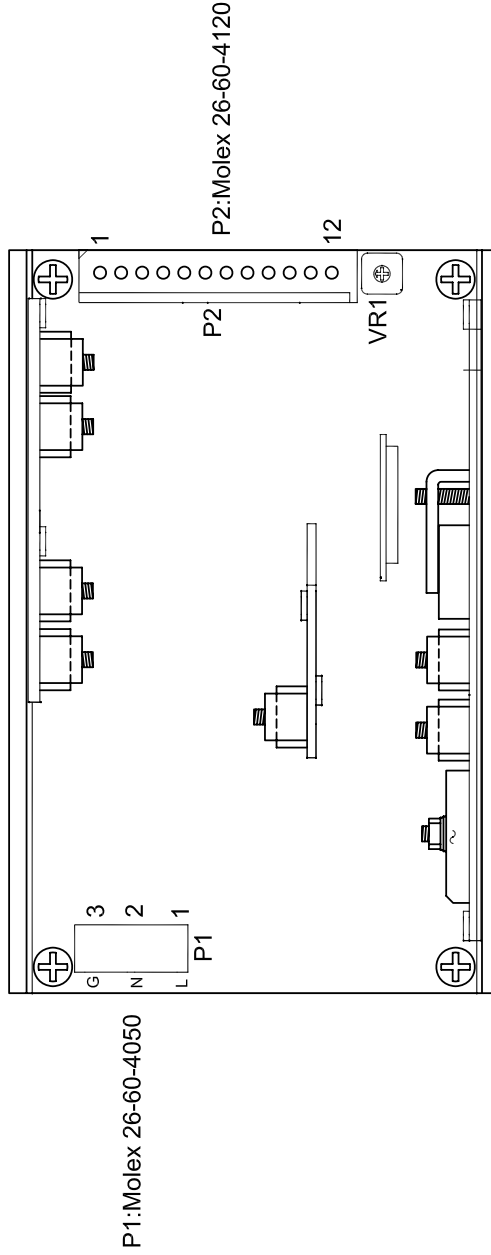
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DATE:04.20.2006

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