



## Model SMD650

<b>Total Output Power</b>	<b>650 watts</b>
<b>Output Channels</b>	<b>Single</b>
<b>Input Mains Voltage</b>	<b>90-264VAC</b>



### STANDARD FEATURES

- Wide range Power Factor Corrected 90 to 264VAC, 47 to 63Hz. single phase
- Less than 300  $\mu$ A leakage
- EMI compliance to CISPR22, FCC Class B
- Medical Approvals to UL60601, IEC601-1 and CSA 22.2 No. 601
- Short circuit protection with auto-recovery
- Power fail, Current limit, OVP and thermal protection
- Dual AC fusing protecting both lines
- Cooling by speed control DC fan
- 5 volt standby output
- Battery Backup Option (12-48 volts)
- Lower leakage options available

### ENVIRONMENTAL

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C

Humidity: Operating; non-condensing 0% to 95%

Storage temperature: -40° to 85°C

Temperature coefficient:  $\pm$ 0.03% per °C

Note: All information is subject to change without notice.

### GENERAL SPECIFICATIONS

#### Input

- Input range .....90 to 264VAC
- Power Factor .....0.99
- Frequency .....47-63 Hz
- Inrush current .....50A max., cold start.
- Efficiency .....90% typical at full load.
- EMI filter .....CISPR 11 Class "B"
- Leakage current .....less than 150  $\mu$ A @ 132 VAC input. Less than 250  $\mu$ A @ 254 VAC input.

#### Output

- Maximum power .....650W with internal cooling.
- Power Limit .....Approx. 115% of rated limit.
- Hold-up time.....20 ms @ 650W load
- Overload protection .....Short circuit protection on all outputs.
- Overvoltage protection .....Main output
- Regulation .....Line & load 1%.

#### Logic Control

- Power failure .....TTL logic signal goes low after loss of AC mains.
- DC OK .....TTL logic compatible.
- Remote on/off.....TTL logic compatible
- Remote sense .....Compensates for 0.5 V lead drop min. Will operate without remote sense connected.
- Reverse connection protected.

#### Physical

- Size .....5.0"W x 8.5"L x 2.28"H  
(127mm x 216mm x 58mm)
- Weight .....3.2 lbs. (1.45 kg.)

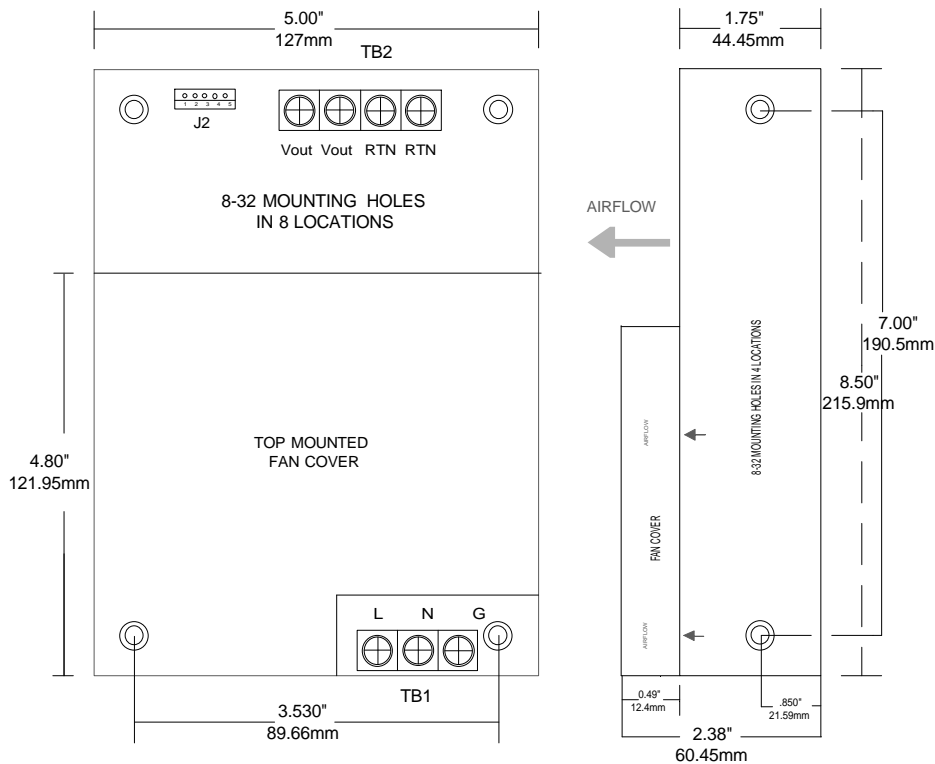
**EAGLE SERIES ORDERING INFORMATION**

Model Number	Output Voltage <sup>1</sup>	Maximum Current	Minimum Load	Typical Regulation	Ripple P/P (PARD) <sup>2</sup>	Voltage Adjust
SMD650-12-C	12VDC	54.16A	0A	± 1%	120 mV	± 5%
SMD650-15-C	15VDC	43.33A	0A	± 1%	150 mV	± 5%
SMD650-24-C	24VDC	27.08A	0A	± 1%	240 mV	± 5%
SMD650-28-C	28VDC	23.21	0A	± 1%	280 mV	± 5%
SMD650-36-C	36VDC	18.06A	0A	± 1%	360 mV	± 5%
SMD650-48-C	48VDC	13.54A	0A	± 1%	480 mV	± 5%

Notes:

- 1) Other voltage and current combinations are available in 0.10V increments. Consult with factory representative for details
- 2) Measured with 20MHz bandwidth at nominal line full load
- \* Lower input current leakage models are optional. Contact a factory representative for details

**MECHANICAL DETAIL**



**NOTES**

- a. Other output voltages available upon request. Contact CDI Sales
- b. All specification detail is subject to change without notice
- c. All dimensions in inches, tolerance is ±.02"
- d. Specifications are at factory settings
- e. Mounting maximum insertion depth is 0.12"
- f. Warranty: 1 year
- g. Weight: 3.2 lb / 1.45 kg
- h. All information is subject to change without notice.