

# SMD350-28-C

## Medical Power Supply

<b>Max. Output Power</b>	<b>350 watts</b>
<b>Output Channels</b>	<b>Single Output</b>
<b>Input Mains Voltage</b>	<b>85 to 264VAC</b>



### STANDARD FEATURES

- 4.6 watts/cu.in. power density
- Compact size 5.0"W x 7.5"L x 2.38"H
- Power factor corrected to IEC 1000-3-2
- Self contained Fan cover
- Medical Approved to UL2601, IEC601-1 and CSA 22.2 No. 601.1

### ENVIRONMENTAL

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

Storage temperature: -40°C to 85°C

Temperature coefficient: ± 0.03% per °C

EMI compliance to CISPR 11 Class B

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

MTBF calculated: 179,000 hours at full load 25°C ambient conditions per MIL-HDBK-217F, Notice 2

### ELECTRICAL SPECIFICATIONS

#### Input

Input range .....85 to 264VAC  
 Frequency .....47 to 63Hz  
 Power factor .....0.99 typical  
 Inrush current .....37A maximum @ 240VAC under cold start @ 25°C  
 Efficiency .....75% typical at full load  
 Leakage current .....Less than 135µA @132VAC 50Hz under cold start @ 25°C. Low leakage option. Contact factory representative for details  
 EMC (Conducted).....CISPR 11 Class "B", FCC Class "B", EN55011 Class B

#### Output

Maximum power.....350 watts with top mounted fan cover assembly.  
 Hold-up time.....16 ms @ 350 W load, nominal line (115VAC)  
 Overload protection .....Fully protected against short circuit and output overload. Automatic recovery  
 Overvoltage protection .....10% to 25% above nominal output. Latches off. Recycling AC power will reset the latch

#### Logic Control

Power failure .....TTL active high, goes low 5 msec before loss of regulation  
 External/off ..... A logic low shuts down the power converter  
 DC OK .....TTL active high @ 90%of output regulation  
 Remote sense .....Compensates for 0.5 V lead drop minimum. Will operate without remote sense connected

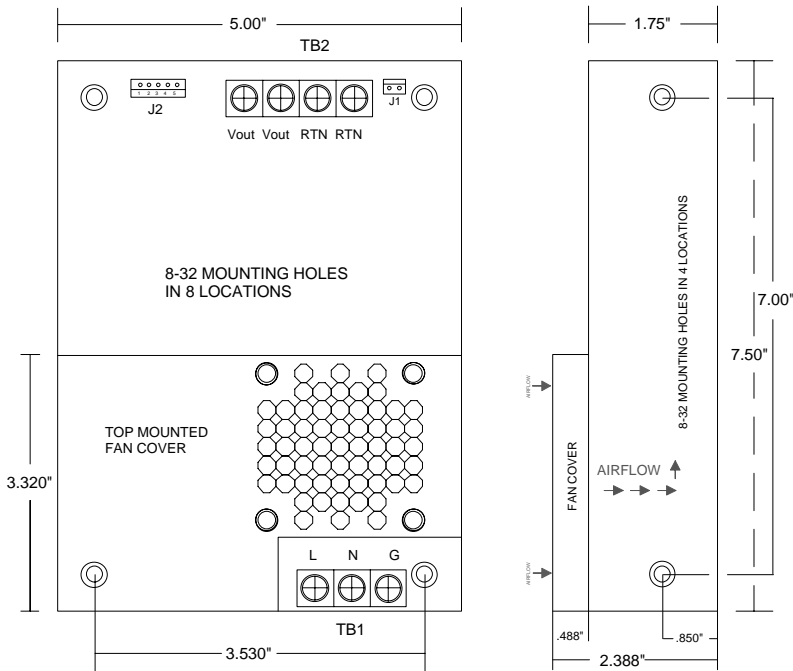
**EAGLE SERIES ORDERING INFORMATION**

Model Number	Output Voltage <sup>1</sup>	Maximum Current	Typical Regulation	Ripple P/P (PARD) <sup>2</sup>	Voltage Adjust
SMD350-24-C	24VDC	14.5A	± 1%	240 mV	± 5%
SMD350-28-C	28VDC	12.5A	± 1%	280 mV	± 5%
SMD350-30-C	30VDC	11.7A	± 1%	300 mV	± 5%
SMD350-36-C	36VDC	9.7A	± 1%	360 mV	± 5%
SMD350-48-C	48VDC	7.3A	± 1%	480 mV	± 5%

Notes:

- 1) Other voltage and current combinations are available. 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**



**I/O CONNECTORS**

**AC POWER INPUT (TBI)**

TERMINAL #	REFERENCE
1	AC LINE
2	AC NEUTRAL
3	AC GROUND

NOTE: 6-32, 3 Pin Terminal Block

**DC OUTPUT POWER (TB2)**

TERMINAL #	REFERENCE
1	VOUT +
2	VOUT +
3	RETURN
4	RETURN

NOTE: 6-32, 4 Pin Terminal Block

**SIGNAL INTERFACE (J2)**

Connector type AMP 640456-5

Mating connector AMP 640440-5

TERMINAL #	REFERENCE
1	DC GOOD
2	POWER FAIL
3	EXT OFF
4	SENSE +
5	SENSE -

**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: 2.44 lb / 1.1 kg