

SMD275-12 Medical Power Supply 275 to 300 Watts

Max. Output Power	300 watts
Output Channels	Single Output
Input Mains Voltage	85 to 264VAC



STANDARD FEATURES

- 4.5 watts/cu.in. power density
- Compact size 5.0"W x 7.5"L x 1.75"H
- Power factor corrected to IEC 1000-3-2
- 12 volt Vdc, 250 mA fan output
- 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 >227,000 hours at full load 25°C ambient conditions per MIL-HDBK-217F, Notice 2

ELECTRICAL SPECIFICATIONS

Input

Input range85 to 264VAC
 Frequency47 to 63Hz
 Leakage currentLess than 135µA @132VAC and maximum 270µA @264VAC. Lower leakage models optional. Contact factory for option code
 Inrush current37A maximum @ 240VAC under cold start @ 25°C
 Efficiency75% typical at full load
 EMI filterCISPR 11 Class "B", FCC Class "B", EN55011 Class B
 Power factor0.99 typical

Output

Maximum power.....275 watts with 150 LFM min. of customer provided cooling. 300 watts max. with optional fan cover (suffix "-C").
 Hold-up time.....20 ms @ 275 W load, nominal line (115VAC)
 Overload protectionFully protected against short circuit and output overload. Automatic recovery.
 Overvoltage protection10% to 25% above nominal output. Latches off. Recycling AC power will reset the latch.

Logic Control

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

