

RSM Series Product Specification

AC/DC Medical Grade Power Supplies for Patient Contact

RSM Series 28 Watt Power Supplies	
Cost effective Low Profile 28 Watt Medical Grade Switching AC/DC Converters with Wide Range Input	
Model Number RSM-28	Volts DC @ Amps
Output 1	5V/12V/15V/24V/28V @ 28W
Form Factor: 2.5" x 4.25" x 1"	

Input Specifications

AC Input Voltage Range..... 85-264Vac
Input Frequency..... 47-63 Hz
Input Protection..... Input surge current protection
Inrush Current: 115Vac / 230Vac..... 10A max @ 115VAC, 25A @ 230VAC (at 25 °C cold start)
Input EMI Filter..... EN 55011, CISPR 11 Class B
Leakage Current..... 90uA max @ 115VAC 60hz, 150uA max at 230VAC, 50hz
Safety Ground..... 50uA max @ 110VAC 60hz

Output Specifications

Total Output Power..... 0-28 Watts
Line / Load Regulation..... +/- 0.5% maximum at full load
Ripple..... 1% peak-to-peak maximum
Hold-Up Time..... 15 mSec minimum at nominal input
Temperature Coefficient..... +/- 0.04%/ °C max
Overload Protection..... Standard
OverVoltage Protection..... 112-132% of its nominal voltage

Safety Agency Certifications

UL 544/260-1
CSA C22.2 No.601.1
EN 55011 CISPR II Class B
IEC/EN 601-1 / 60601.1
IEC/EN 61000-3-2/3 compliant
CE Marked
TUV Approved

Environmental Specifications

Operational Temperature..... 0° to 70° C (with forced air cooling)
Fan and/or Cover/Enclosure..... Optional
Storage Temperature..... -40° to 75° C
Humidity..... 5-95%, non-condensing
Altitude..... 10,000 feet with appropriate cooling
Vibration..... MIL-STD-810C, Method 514.2, Category f, Procedure VIII, 2.0G maximum at 5-200Hz.
Shock..... MIL-STD-810C, Method 516.2, Category f, Procedure I, 3 shocks per axis/each direction, 11 mSec
half sine at 15 Gs peak
Derating..... Derated from 100% at 50° C linearly to 50% at 70° C

General Specifications

Transient Response..... Max excursion at 4% or better , recovering to 1% of final value within 500us after 25% step load change
Efficiency..... 68% minimum at 28W output
Hold-Up Time..... 15 msec minimum at full load
Hi-Pot dielectric strength..... 4000VAC from input to Output, 1500VAC from input to ground, 500VAC from output to ground
Insulation Resistance..... 10 MOhm minimum from output to ground
MTBF..... 100,000 hours minimum at full load, 25° C ambient
Functional Verification..... 100% in circuit tested, 100% Pre Burn-In Parametric tested, 100% Post Burn-In Parametric tested with our burn in process subjecting each unit to 12 hours at elevated temperatures with power cycling
Product Warranty..... 1 year warranty against defects and workmanship



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*Subject to change without notice
11/10/2003