

RTM Series Product Specification

AC/DC Medical Grade Power Supplies for Patient Contact



RTM Series 500 Watt Power Supplies/ 4 Output	
Medical Grade AC/DC Converters ranging from 0-600 Watts	
Power Factor Correction is standard on this unit.	
Operating at up to 600 Watts	
Model Number RTM-500/4	Volts DC @ Amps
1st Output	3.3V/5V/12V/15V/24V/36V/48V @ 500W
2nd Output	3.3V to 24V @ 20A or 300W
3rd Output	3.3V to 24V @ 12A or 200W
4th Output	3.3V to 24V @ 12A or 200W
Form Factor: 5.23" x 12.1" x 2.1"	

Input Specifications

AC Input Voltage Range.....	85-264Vac
Input Frequency.....	47-63 Hz
Input Protection.....	Internal Fuse
Inrush Current: 117Vac / 230Vac.....	20A max/40A max
Wide Range Input.....	Standard
Input EMI Filter.....	FCC/CISPR 11 Class B
Earth Leakage Current.....	<150uA @ 240Vac 50Hz

Output Specifications

Line / Load Regulation.....	(Output 1, 2, 3, 4) 1% nominal
Ripple.....	20mV peak-to-peak
Hold-Up Time.....	30 mSec
Temperature Coefficient.....	0.05%/ °C
Overload Protection.....	Fold back with auto recovery
Thermal Protection.....	Fold back with auto recovery
OverVoltage Protection.....	Standard on all units, Outputs 1 & 2
Power Good Signal.....	Optional
AC Power Fail Detect.....	Optional
Remote Sense.....	Optional

Environmental Specifications

Operational Temperature.....	0° to 40° C (with forced air cooling)
Thermal Characteristics.....	Operating at 150 Watts with free air & 600 Watts with forced air at 200 LFM @ 40° C
Fan and/or Cover.....	Optional
Storage Temperature.....	-25° 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

General Specifications

Transient Response.....	500 uSec to settle within 1% of the final value after a 25% load step
Frequency.....	250 kHz Resonant Frequency
Hi-Pot dielectric strength.....	4000Vac from input to output, 1500Vac from input to ground, 1500Vac from output to ground
Insulation Resistance.....	10 MOhm minimum from output to ground
MTBF.....	in excess of 100,000 hours at full load
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.....	2 years warranty against defects and workmanship

Safety Agency Certifications

UL 2601/60950
CSA 601.1/950
IEC/EN 60601.1/60950/61000-3-2/3
CE Marked
Type BF Isolation available
Type CF Isolation available



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*Subject to change without notice

11/10/03