## RECOM AC/DC Converter

# RACM100 Series

#### Specifications (measured @ Ta= 25°C, 250VAC, full load and after warm-up)

REGULATIONS				
Parameter	Condition	Value		
Output Accuracy	230VAC, full load	±1.0%		
Line Regulation	low line to high line, full load	±0.2%		
Load Regulation 0% to 100% load 10% to 100% load		0.5% max. 0.4% max.		
ransient Peak Deviation load step from 50% - 75% change at 2.5A/µs		3.0% Vout max.		
Transient Recovery Time	load step from 50% - 75% change at 2.5A/µs	500µs typ.		

Cond	lition	Value
		T3.15A / 250VAC, slow blow type
		continuous, auto-recovery
% of lout rated (Hiccup)		115% min. / 150% max.
% of Vout nominal (Latch off)		115% min. / 135% max.
tested for 1 minute	I/P to O/P I/P to Case O/P to Case	4kVAC 1.5kVAC 1.5kVAC
500VDC		100MΩ min.
		reinforced
264VAC		75µA max.
working voltage 250VAC/continuous		2MOPP
		built-in power supply
clearance creepage		>8.0mm >8.0mm
	internal line % of lout ra % of Vout nom tested for 1 minute 500 264 working voltage 29 clear	I/P to O/P   tested for 1 minute   I/P to O/P   I/P to Case   O/P to Case   500VDC   264VAC   working voltage 250VAC/continuous   clearance

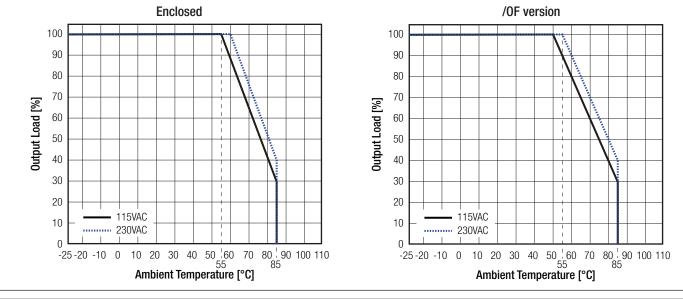
ENVIRONMENTAL					
Parameter	Condition       refer to derating graph		<b>Value</b> -25°C to +85°C		
Operating Temperature Range					
	full load, 230VAC	enclosed open frame	-25°C to +60°C -25°C to +55°C		
Temperature Coefficient			±0.02%/K		
Operating Altitude			5000m max.		
Operating Humidity	non-condensing		5% to 95% RH		
Pollution Degree			PD2		
Thermal Shock			MIL-STD-810F		
Shock			IEC60068-2-27		
Vibration			IEC60068-2-6		
MTBF	according to MIL-HDBK-	217F, full load, +25°C	790.3 x 10 <sup>3</sup> hours		

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**Derating Graph** (@ Chamber and natural convection 0.1m/s)



#### SAFETY AND CERTIFICATIONS

SAFETY AND CERTIFICATIONS			
Certificate Type (Safety)	Report /	/ File Number	Standard
Medical Electric Equipment, General Requirements for Safety and Essential Performance		314885	CAN/CSA-C22.2 No. 60601-1:14 ANSI/AAMI ES60601-1:2005 + A2:2010
Medical Electric Equipment, General Requirements for Safety and Essential Performance (CB Scheme)		08016004	IEC60601-1:2005 + C2:2007, 3rd Edition EN60601-1:2006
Information Technology Equipment - General Requirements for Safety (LVD)		200000 001	EN60950-1:2006 + A2:2013
Information Technology Equipment - General Requirements for Safety		08008-001	IEC60950-1:2005, 2nd Edition + A2:2013
		T.49.09571	TP TC 004/2011 TP TC 004/2011
oHs2+			RoHS-2011/65/EU + AM-2015/863
EMC Compliance (Medical)	Co	nditions	Standard / Criterion
Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests			EN60601-1-2:2015
Industrial, scientific and medical equipment - Radio frequency disturbance characteristics -			EN55011:2009 + A1:2010
Limits and methods of measurement			Class B Conducted, Class A Radiated
Industrial, scientific and medical equipment - Radio frequency disturbance characteritics - Limits and methods of measurement			CISPR11:2009 + A1:2010 Class B Conducted, Class A Radiated
ESD Electrostatic discharge immunity test		V; Contact ±8kV	IEC61000-4-2:2008
Radiated, radio-frequency, electromagnetic field immunity test	10V/m (80-2700MHz) 27V/m (385MHz) 28V/m (450MHz)		IEC61000-4-3:2006 + A2:2010
Fast Transient and Burst Immunity	AC Power Port: ±2kV		IEC61000-4-4:2012
Surge Immunity	AC Port:	$L-N=\pm 1kV$ L-GND= $\pm 2kV$	IEC61000-4-5:2005
Immunity to conducted disturbances, induced by radio-frequency fields	6Vr.m.s		IEC61000-4-6:2013
Power Frequency Magnetic Field	50Hz, 30A/m		IEC61000-4-8:2009
Voltage Dips and Interruptions	Dips: >95%; 30%; Interruptions >95%		IEC61000-4-11:2004
Limits of Harmonic Current Emissions			EN61000-3-2:2005 + A2:2009, Class D
Limits of Voltage Fluctuations and Flicker			EN61000-3-3:2013