Features

Regulated Converter

- Long 5 year warranty
- 2MOPP/250VAC
- Suitable for built in Class II applications
- Wide input voltage range (85-264VAC)
- Low leakage current (<100µA)
- 5000m operation
- Active power factor correction

RECOM
AC/DC Converter

RACM150

150 Watt Enclosed Case Style Single Output

2MOPP
250VAC

IEC/EN60601 certified
ANSI/AAMI ES60601 certified
EN55011 certified
CISPR11
FCC Part 15

Description

The RACM150-S(/F) is a compact 4" x 2" high efficiency AC/DC power supply with 2xMOPP safety approval for medical applications. These space saving enclosed power supplies have a universal input voltage range (85-264VAC), 4kVac isolation, require no minimum load and can be used at ambient temperatures of between -25°C and +80°C. The 12V, 15V, 24V or 48V output voltages are fully protected and have tolerances of less than ±0.2% over the entire input voltage range and less than ±0.5% over the entire load range. The RACM150-S(/F) series is certified to medical safety standard IEC/ES/EN-60601-1 3rd Edition and with less than 100µA leakage current. It has a built-in Class B EMI filter and comes with a five year warranty.

Selection Guide

Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	Output Current [A] 115/230VAC	Efficiency typ. [%]	max. cont. Power Rating [W] 115/230VAC	Max. Cap. Load (1) [µF]
RACM150-12S	85-264	12	10.0 / 10.84	91	120 / 130	10400
RACM150-15S	85-264	15	8.33 / 9.0	92	125 / 135	6600
RACM150-24S	85-264	24	5.2 / 5.63	92	125 / 135	2600
RACM150-48S	85-264	48	2.5 / 2.71	91	120 / 130	650
RACM150-12S/F (1)	85-264	12	12.5	91	150	10400
RACM150-15S/F (1)	85-264	15	10.0	92	150	6600
RACM150-24S/F (1)	85-264	24	6.25	92	150	2600
RACM150-48S/F (1)	85-264	48	3.13	91	150	650

Notes:

Note1: Max Cap Load is tested at minimum input and full resistive load

Model Numbering

RACM150- __ S/ __

- Output Power / Output Voltage
- Fan Option (2)
- Single

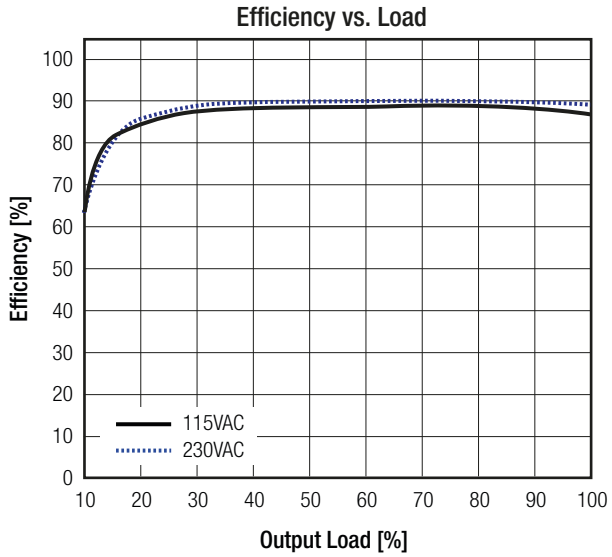
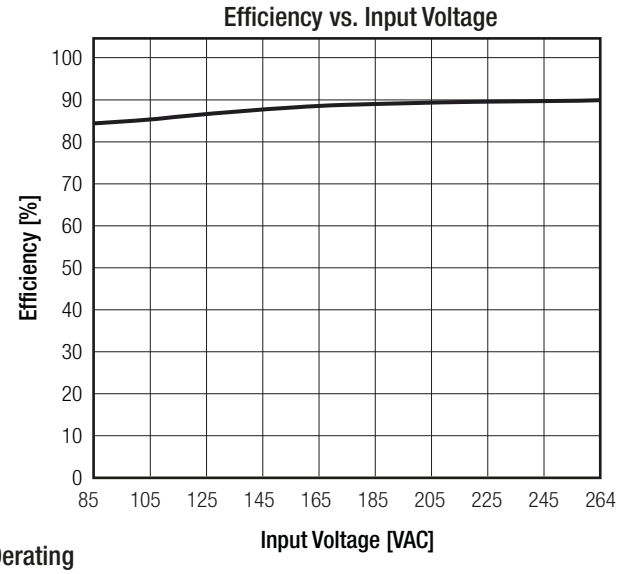
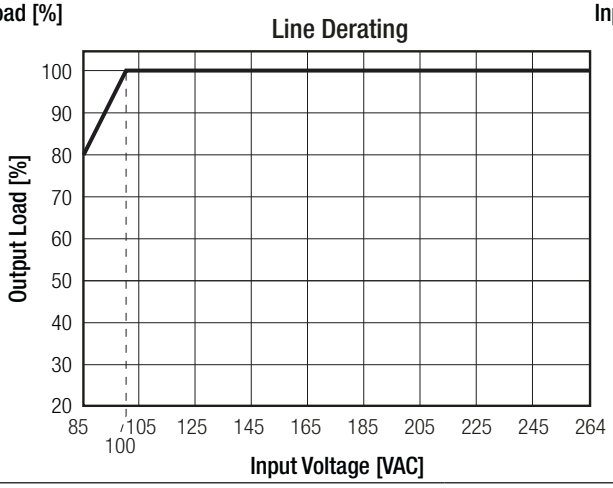
Notes:

Note2: with suffix "/F" = mounted fan (Please note that removing the fan from the /F version will not give the same performance as the equivalent fanless type. The two versions are not identical)
without suffix, without fan

Examples:

RACM150-12S = 12Vout, without fan
RACM150-24S/F = 24Vout, with fan

RACM150 Series

Specifications (measured @ Ta= 25°C, 230VAC, full load and after warm-up)

BASIC CHARACTERISTICS				
Parameter	**Condition**	**Min.**	**Typ.**	**Max.**
Input Voltage		85VAC 120VDC		264VAC 370VDC
Input Current	115VAC, fulll load 230VAC, full load			1.7A 0.8A
Inrush Current	cold start, 115VAC cold start, 230VAC			30A 60A
No load Power Consumption	230VAC, with fan 230VAC, without fan		0.6W 0.25W	1W 0.3W
Input Frequency Range	AC Input	47Hz		63Hz
Output Voltage Trimming			±10.0%	
Minimum Load		0%		
Power Factor		0.95		
Start-up Time			0.7s	1s
Rise Time			20ms	
Hold up Time			30ms	
Internal Operating Frequency			60kHz	
Output Ripple and Noise (measured @ 20MHz BW)	12VDC, with 1µF/25V MLCC 15VDC, with 1µF/25V MLCC 24VDC, with 1µF/50V MLCC 48VDC, with 0.1µF/100V MLCC		120mVp-p 150mVp-p 220mVp-p 250mVp-p