

# 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 (<75µA)
- 5000m operation
- -40°C to +85°C operating temperature



# RACM65

**65 Watt Enclosed & Open Frame Case Style Single Output**



## Description

The RACM65 is a compact 3" x 2" high efficiency AC/DC power supply with 2xMOPP safety approval for medical applications. These space saving enclosed power supplies have an universal input voltage range (85-264VAC), 4kVAC isolation, require no minimum load and can be used at ambient temperatures of between -40°C and +85°C. The 5V, 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 output voltage can be trimmed over a ±10% range. The RACM65 series is certified to medical safety standard IEC/ES/EN-60601-1 3rd Edition and with less than 75µA leakage current. It has a built-in Class B EMI filter and comes with a 5 year warranty.

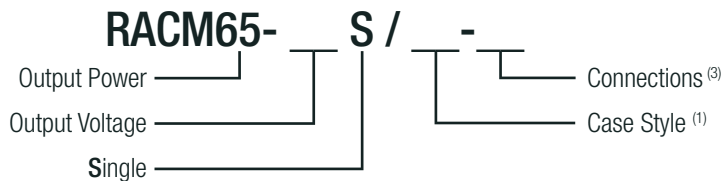
## Selection Guide

Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	Output Current [A]	Efficiency typ. [%]	Max. Capacitive Load <sup>(1)</sup> [µF]
RACM65-05S <sup>(1,2)</sup>	85-264	5	10	90	20000
RACM65-12S <sup>(1,2)</sup>	85-264	12	5.42	92.5	4520
RACM65-15S <sup>(1,2)</sup>	85-264	15	4.34	93.5	2900
RACM65-24S <sup>(1,2)</sup>	85-264	24	2.71	93.5	1130
RACM65-48S <sup>(1,2)</sup>	85-264	48	1.36	93	235

### Notes:

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

## Model Numbering



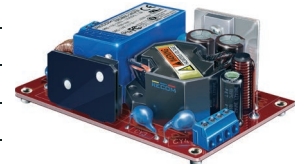
### Notes:

Note2: Case Style: without suffix, standard enclosed case  
add suffix "/OF" for open frame style

Note3: Connections: without suffix, standard connection with connector  
with suffix "-ST" connection with screw terminals

### Examples:

- RACM65-12S = 12Vout, standard enclosed case
- RACM65-48S/OF = 48Vout, open frame style
- RACM65-15S/OF-ST = 15Vout, open frame style with screw terminal connection



CSA/CAN-C22.2 No 60601-1:14 certified  
ANSI/AAMI ES60601-1 certified  
EN60601-1-2  
CISPR11  
FCC Part 15 & 18

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

**BASIC CHARACTERISTICS**

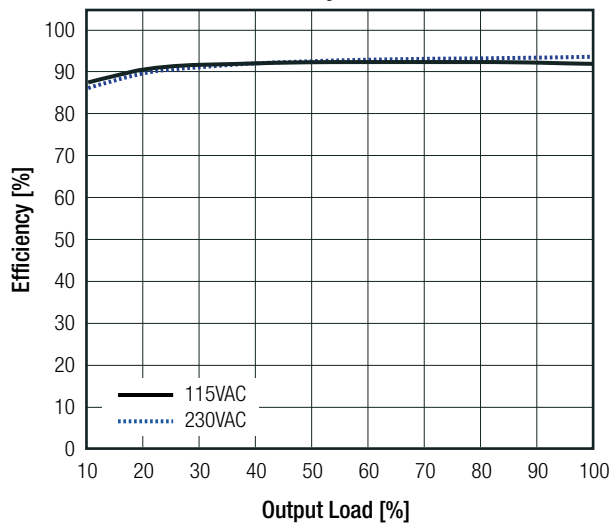
Parameter	Condition	Min.	Typ.	Max.
Input Voltage		85VAC 100VDC <sup>(4)</sup>	230VAC	264VAC 370VDC
Input Current	115VAC, full load 230VAC, full load			1.6A 0.9A
Inrush Current	cold start, 230VAC			60A
No load Power Consumption				0.11W
Input Frequency Range	AC Input		50/60Hz	440Hz <sup>(4)</sup>
Output Voltage Trimming	on-board trimpot		±10.0%	
Minimum Load		0%		
Start-up Time				1s
Rise Time			20ms	
Hold up Time	115VAC, full load		16ms	
Operating Frequency Range	5VDC, 230VAC others, 230VAC		60kHz 120kHz	
Output Ripple and Noise (measured @ 20MHz BW)	5VDC, 12VDC and 15VDC with 10µF/25V MLCC 24VDC, with 1µF/50V MLCC 48VDC, with 0.1µF/100V MLCC		75mVp-p 75mVp-p 150mVp-p	

**Notes:**

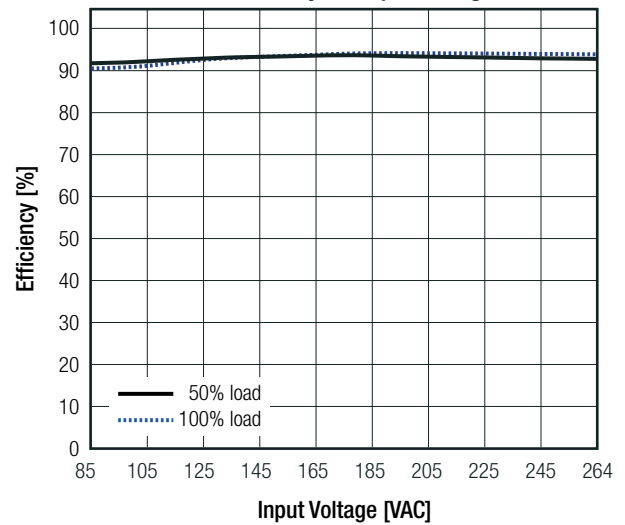
Note4: Confirmed performance, but not covered in certificates. 100V input voltage with derating

**RACM65-24S**

**Efficiency vs. Load**



**Efficiency vs. Input Voltage**



**Line Derating**

