Features

- Long 5 year warranty
- 2MOPP/250VAC
- Suitable for built in Class II applications

• Wide input voltage range (85-264VAC)

Low leakage current (<75µA)

Regulated Converter

- 5000m operation
- -40°C to +85°C operating temperature

Description

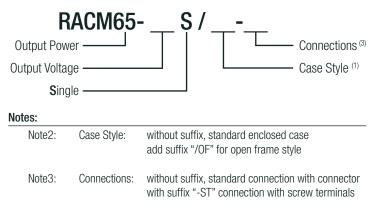
The RACM65 is a compact 3" x 2" high efficiency AC/DC power supply with 2xMOPP safety approval for medical applications. These space saving enclosed power supplies have an universal input voltage range (85-264VAC), 4kVAC isolation, require no minimum load and can be used at ambient temperatures of between -40°C and +85°C. The 5V, 12V, 15V, 24V or 48V output voltages are fully protected and have tolerances of less than $\pm 0.2\%$ over the entire input voltage range and less than $\pm 0.5\%$ over the entire load range. The output voltage can be trimmed over a $\pm 10\%$ 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 ⁽¹⁾ [µF]
RACM65-05S (1,2)	85-264	5	10	90	20000
RACM65-12S (1,2)	85-264	12	5.42	92.5	4520
RACM65-15S (1,2)	85-264	15	4.34	93.5	2900
RACM65-24S (1,2)	85-264	24	2.71	93.5	1130
RACM65-48S (1,2)	85-264	48	1.36	93	235

Notes:

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

Model Numbering



Examples:

RACM65-12S=12Vout, standard enclosed caseRACM65-48S/OF=48Vout, open frame styleRACM65-15S/OF-ST=15Vout, open frame style with screw terminal connection



RACM65

65 Watt Enclosed & Open Frame Case Style Single Output





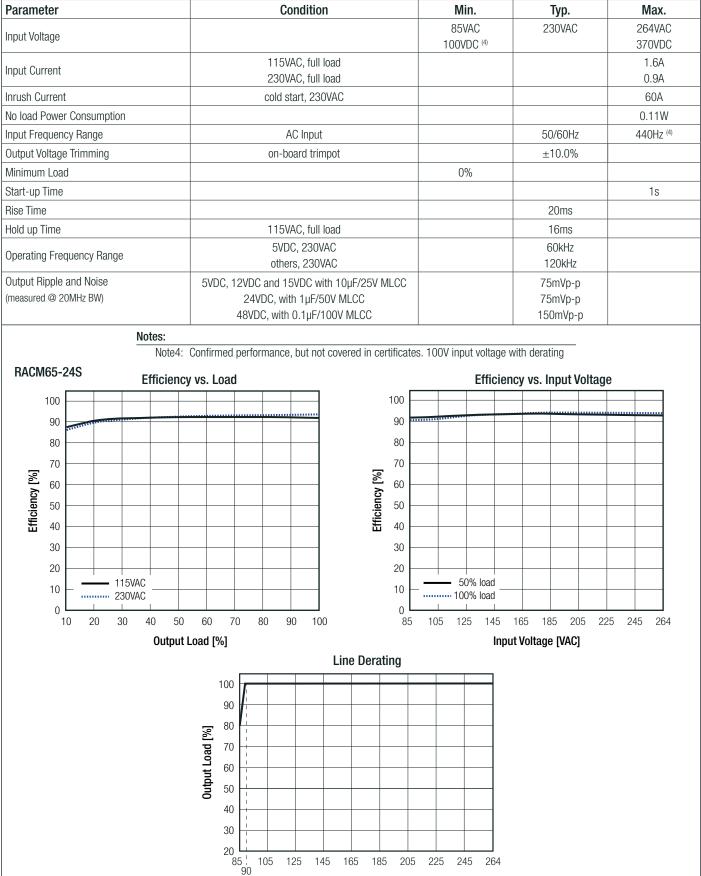


CSA/CAN-C22.2 No 60601-1:14 certified ANSI/AAMI ES60601-1 certified EN60601-1-2 CISPR11 FCC Part 15 & 18

BASIC CHARACTERISTICS

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

RACM65 Series ull load and after warm-up)



Input Voltage [VAC]

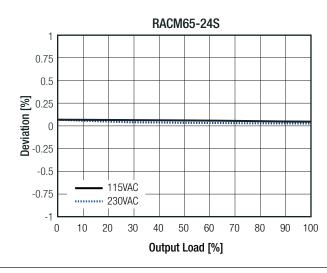
Specifications (measured at Ta= 25°C, 250VAC, full load and after warm-up)

RACM65

Series

Condition 230VAC, full loa low line to high line, fu		Value ±1.0% ±0.2%
,		
low line to high line, fu	ull load	+0.2%
	low line to high line, full load	
0% to 100% load	5VDC	0.7%
		0.5%
10% to 90% load	5VDC	0.6%
10 % to 30 % load	others	0.4%
load step from 50% - 75% change at 2.5A/µs		3.0% Vout max
load step from 50% - 75% change at 2.5A/µs		600µs typ
-	10% to 90% load load step from 50% - 75% ch	0% to 100% load others 10% to 90% load 5VDC others load step from 50% - 75% change at 2.5A/µs

Deviation vs. Load



PROTECTIONS			
Parameter	Con	dition	Value
Input Fuse		nal line utral	T3.15A / 250VAC, slow blow type T3.15A / 250VAC, slow blow type
Short Circuit Protection (SCP)			continuous, auto-recovery
Over Load Protection (OLP)	% of lout ra	ated (Hiccup)	145% typ.
Over Voltage Protection (OVP)	% of Vout nor	ninal (Latch off)	125% min / 140% max.
Isolation Voltage ⁽⁵⁾	tested for 1 minute	I/P to O/P I/P to Case, O/P to Case	4kVAC 2.5kVAC
Isolation Resistance	500)VDC	100MΩ min.
Insulation Grade			reinforced
Leakage Current	264	4VAC	75µA max.
Means of Protection	working voltage 2	250VAC/continuous	2MOPP
Medical Device Classification			built-in power supply
Internal	clea	rance	>8.0mm
IIIteilia	cree	epage	>8.0mm

Notes:

Note5: For repeat Hi-Pot testing, reduce the time and/or the test voltage

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

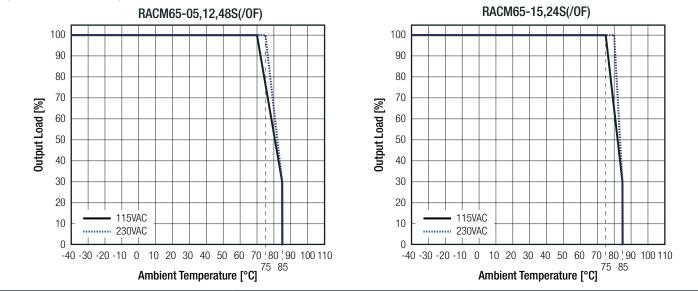
RACM65

Series

ENVIRONMENTAL			
Parameter	Condition	Value	
Operating Temperature Range	refer to derating graph	-40°C to +85°C	
Temperature Coefficient		±0.02%/K	
Operating Altitude		5000m max	
Operating Humidity	non-condensing	5% to 95% RH	
Pollution Degree		PD2	
Shock		according to IEC60068-2-27	
Vibration		according to IEC60068-2-6	
MTBF	according to MIL-HDBK-217F, full load, +25°C	1494 x 10 ³ hours	

Derating Graph

(@ natural convection 0.1m/s)



SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Medical Electric Equipment, General Requirements for Safety and Essential Performance	E314885	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)	151101302	IEC60601-1:2005 + C2:2007, 3rd Edition EN60601-1:2006
Information Technology Equipment - General Requirements for Safety (LVD)	TW1700000 001	EN60950-1:2006 + A2:2013
Information Technology Equipment - General Requirements for Safety	TW1708008-001	IEC60950-1:2005, 2nd Edition + A2:2013
EAC	RU-AT.49.09571	TP TC 004/2011 TP TC 004/2011
RoHs2+		RoHS-2011/65/EU + AM-2015/863
EMC Compliance (Medical)	Conditions	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 characteritics - Limits and methods of measurement		CISPR11:2009 + A1:2010, Class E

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RACM65 Series

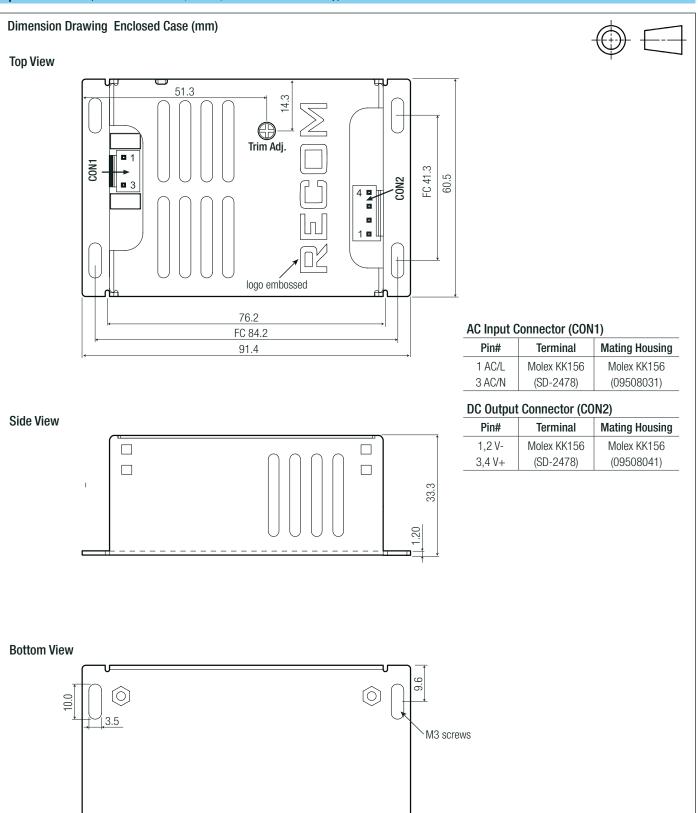
Specifications (measured at Ta= 25°C, 250VAC, full load and after warm-up)

Co	nditions	Standard / Criterion
Air ±15kV; Contact ±8kV		IEC61000-4-2:2008
27V/r	m (385MHz)	IEC61000-4-3:2006 + A2:2010
AC Pow	ver Port: ±2kV	IEC61000-4-4:2012
AC Port:	$L-N=\pm 1kV$ L-GND= $\pm 2kV$	IEC61000-4-5:2014
20Vr.m.s		IEC61000-4-6:2013
50Hz, 30A/m		IEC61000-4-8:2009
Dips: >95%; 30%; Interruptions >95%		IEC61000-4-11:2004
		EN61000-3-3:2013
		47CFR FCC Part 15 Subpart B, Class B
		ANSI C63.4:2014
		FCC OST/MP-5
Co	nditions	Standard / Criterion
		EN55032:2015+AC:2013, Class B
		EN55024:2010+A1:2015
Air ±15kV; Contact ±6kV		IEC61000-4-2:2008, Criteria A
10V/m (80-1000MHz) 20V/m (80-1000MHz)		IEC61000-4-3:2006 + A2:2010, Criteria A
=== (00 100011112)	
	ver Port: ±4kV	IEC61000-4-4:2012, Criteria A
	,	IEC61000-4-4:2012, Criteria A IEC61000-4-5:2014, Criteria A
AC Pow AC Port:	ver Port: ±4kV L-N= ±2kV	
AC Pow AC Port: AC Powe 50Hz/6	rer Port: ±4kV L-N= ±2kV L-PE= ±4kV	IEC61000-4-5:2014, Criteria A
AC Powe AC Port: AC Powe 50Hz/6/ 10 Dips: >99	rer Port: $\pm 4kV$ L-N= $\pm 2kV$ L-PE= $\pm 4kV$ r Port 10V, 20V OHz, 100A/m,	IEC61000-4-5:2014, Criteria A IEC61000-4-6:2013, Criteria A
AC Powe AC Port: AC Powe 50Hz/6/ 10 Dips: >99	r Port: ±4kV L-N= ±2kV L-PE= ±4kV r Port 10V, 20V 0Hz, 100A/m, 000A/m 5%; 60%; 30%	IEC61000-4-5:2014, Criteria A IEC61000-4-6:2013, Criteria A IEC61000-4-8:2009, Criteria A IEC61000-4-11:2004, Criteria A
	Air ±15kV 20V/m (27V/r 28V/r AC Pow AC Port: 2 50H Dips: > Interru AC AC AC AC AC AC AC Dips: > Interru Air ±15kV 10V/m ($\begin{array}{c c c c c c c c c c c c c c c c c c c $

DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	enclosed case	aluminum	
	PCB	FR4, (UL94V-0)	
Dimension (LxWxH)	enclosed case	91.4 x 60.5 x 33.3mm	
	open frame	76.2 x 50.8 x 26.5mm	
Weight	enclosed case	172g	
	open frame + "-ST" version	137g	

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



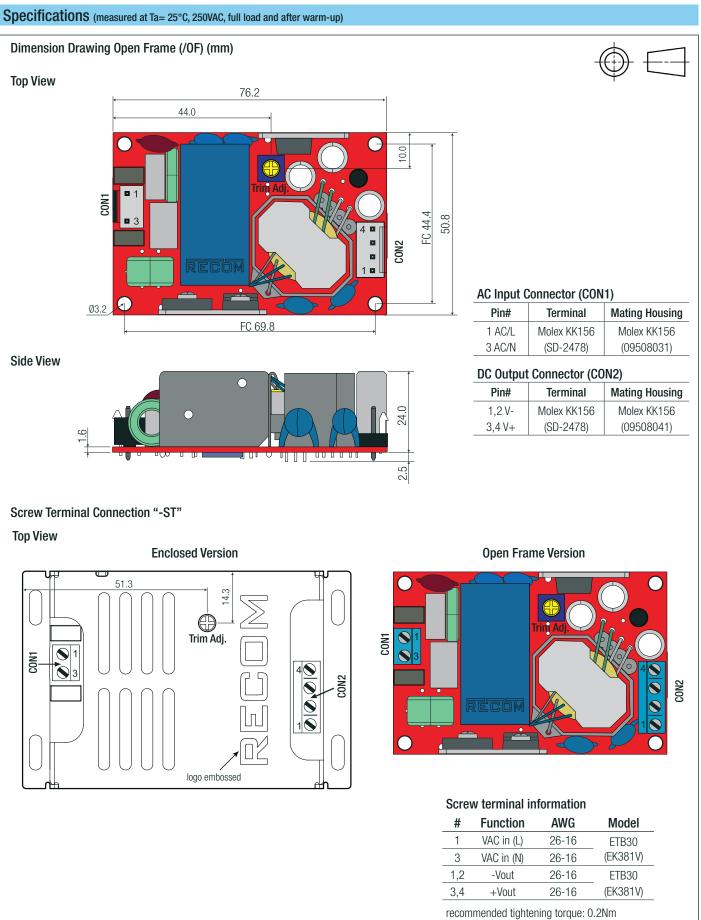
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RACM65 Series

RACM65 **Series**



RACM65 Series

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

PACKAGING INFORMATION Parameter Туре Value enclosed case 120.0 x 80.0 x 85.0mm Packaging Dimension (LxWxH) cardboard box open frame 111.0 x 94.0 x 51.0mm Packaging Quantity 1pcs -40°C to +85°C Storage Temperature Range Storage Humidity 5% to 95% RH non-condensing

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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