

Features

- Household, medically and ITE certified
- Class II installations (without FG)
- IP68 waterproof encapsulation
- Long life components, rugged module
- Energy Efficiency Level VI
- Cable and connector modifications on request

Regulated Converter



RACM30-ER/W

**30 Watt
Wired
Round Shape
Single Output**



- IEC/EN60950-1 certified
- UL60950-1 certified
- ANSI/AAMI ES60601-1 certified
- IEC/EN60601-1 certified
- IEC/EN60335-1 certified
- IEC/EN61558-1 certified
- IEC/EN61558-2-16 certified
- IEC/EN60601-1-2 certified
- EN55024/32 certified
- EN55014-1 (-2) certified
- IEC60529 certified

Description

The RACM30-ER/W series comprises reliable and highly efficient power conversion modules in a potted IP68 certified, waterproof encapsulation to fit into flush mount wall installations. All versions are covered by multiple certifications for household, medical and ITE safety standards as well. With a certified operation up to 5000m altitude and an ambient temperature range from -20°C up to +70°C, the compact modules are designed to power sanitary, healthcare, smart building, automation, and household applications. Since these modules do not require any external components, they are ready to connect and forget.

Selection Guide

Part Number	Input Voltage Range [VAC]	Output Voltage ⁽¹⁾ [VDC]	Output Current [A]	Efficiency typ. ⁽³⁾ [%]
RACM30-12SER ⁽²⁾	90-264	12	2.5	88
RACM30-24SER ⁽²⁾	90-264	24	1.25	89.5

Notes:

Note1: Other output voltages on request

Note2: Efficiency is tested at nominal input (115/230VAC) and full load at +25°C ambient

Model Numbering



Notes:

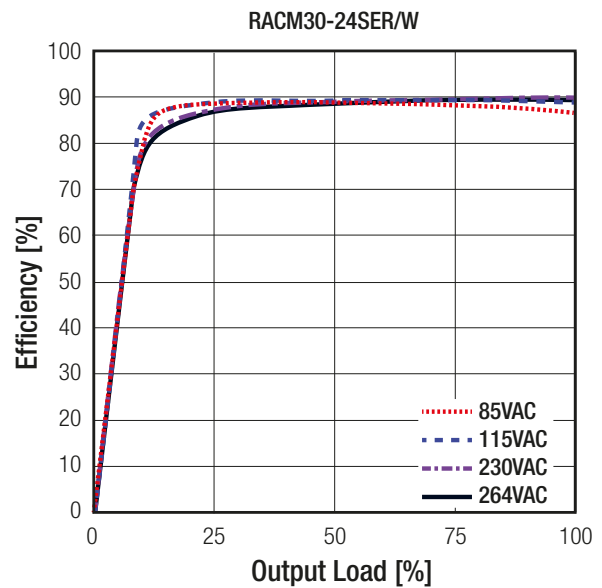
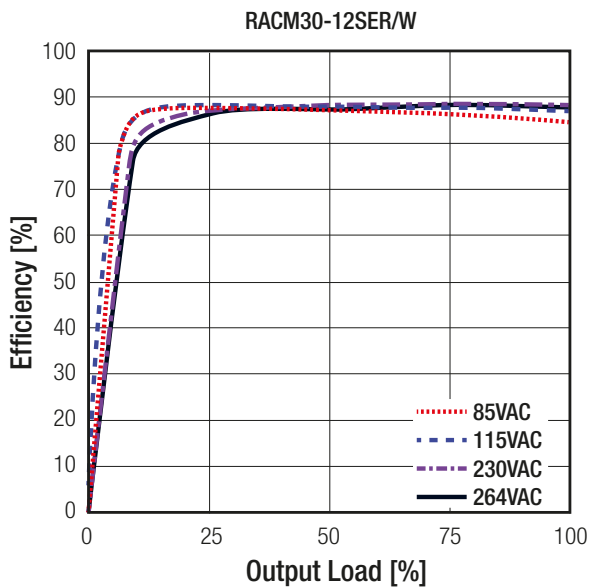
Note3: Other connection types on request

Specifications (measured @ Ta= 25°C, nom. Vin (115/230VAC), full load after warm-up unless otherwise stated)

BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Internal Input Filter				Pi type
Input Voltage Range		90VAC	230VAC	264VAC
Input Current	115VAC 230VAC			1000mA 290mA
Inrush Current	115VAC 230VAC		60A 95A	
No load Power Consumption				75mW
Input Frequency Range		47Hz		63Hz
Minimum Load		0%		
Power Factor			0.55	
Start-up Time	115VAC 230VAC		75ms 150ms	
Rise Time	115VAC / 230VAC		10ms	
Hold-up Time	115VAC 230VAC		15ms 55ms	
Internal Operating Frequency	100% load at nominal Vin		100kHz	
Output Ripple and Noise				75mVp-p

Efficiency vs. Load



REGULATIONS

Parameter	Condition	Value
Output Accuracy		±3.0% max.
Line Regulation	low line to high line	±1.0% max.
Load Regulation	0% to 100% load	±1.0% max.
Transient Response	100% load step change	±3.0% max.

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