Features

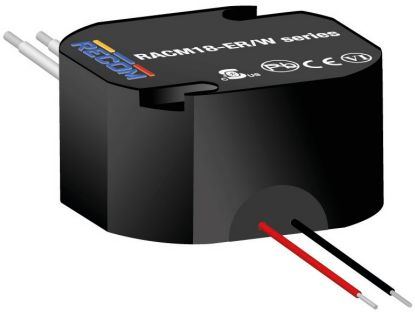
Regulated Converter

- 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

RECOM
AC/DC Converter

RACM18-ER/W

18 Watt Wired Round Shape Single Output



Description

The RACM18-ER/W series comprises highly reliable 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 a temperature range from -20°C up to +80°C the modules are designed to power sanitary, healthcare, smart building, automation and household applications. Without the need for 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. (2) [%]
RACM18-05SER/W (3)	90-264	5	2.5	81
RACM18-12SER/W (3)	90-264	12	1.5	82
RACM18-24SER/W (3)	90-264	24	0.75	83.5

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

RACM18-__ SER/W

- Output Power
- Output Voltage
- Wired Connection (3)
- **S**ingle

Notes:

Note3: Other connection types on reqeuest

2MOPP
280VAC

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
CISPR32 certified
IEC60529 certified

RACM18-ER/W Series

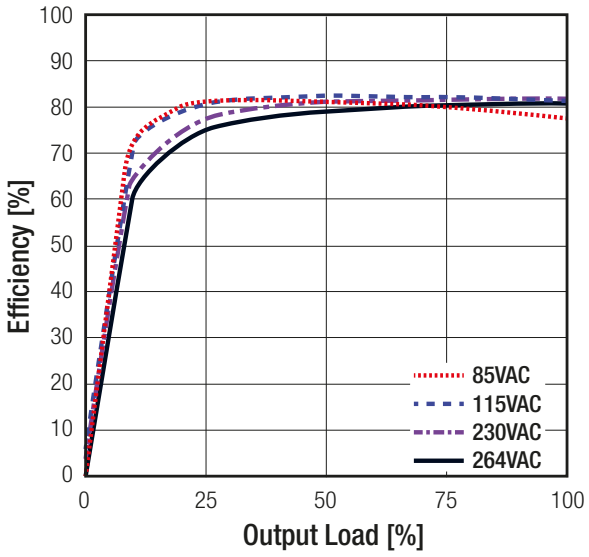
Specifications (measured @ ta= 25°C, nom. Vin (115/230VAC), full load after warm-up unless otherwise stated)

BASIC CHARACTERISTICS

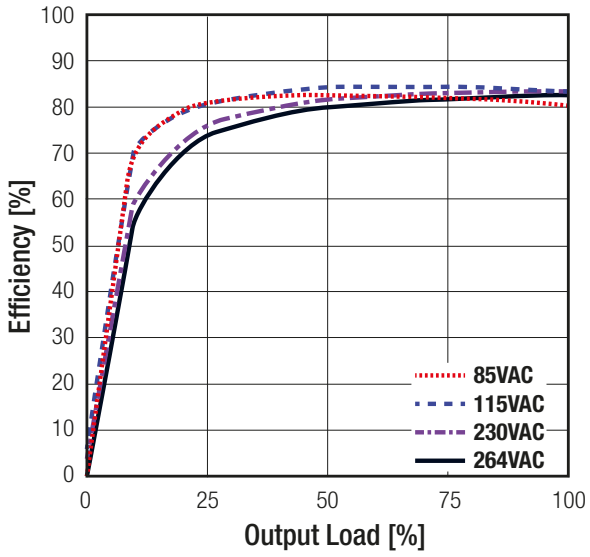
Parameter	Condition	Min.	Typ.	Max.
Internal Input Filter				Pi type
Input Voltage Range		90VAC	230VAC	264VAC
Input Current	115VAC 230VAC			500mA 150mA
Inrush Current	115VAC 230VAC		24A 46A	
No load Power Consumption			40mW	75mW
Input Frequency Range		47Hz		63Hz
Minimum Load		0%		
Power Factor			0.46	
Start-up Time	115VAC 230VAC		180ms 200ms	
Rise Time	115VAC/230VAC		15ms	
Hold-up Time	115VAC 230VAC		15ms 65ms	
Internal Operating Frequency	100% load at nominal Vin		100kHz	
Output Ripple and Noise	20MHz BW			140mVp-p

Efficiency vs. Load

RACM18-12SER/W



RACM18-24SER/W



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.

continued on next page