

Features

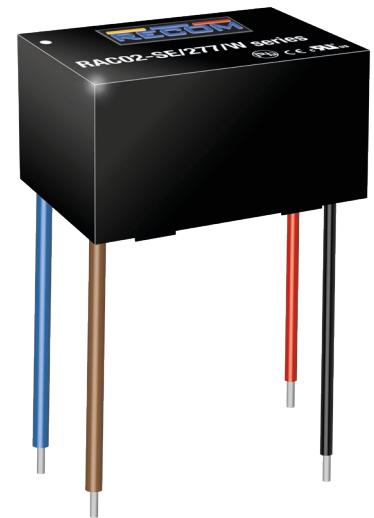
- 35mW max. no load power consumption
- Efficiency up to 76%
- Isolated output 3kVAC / 1 minute
- SCP, OVP protection
- Wide operating temperature range: -40°C to +85°C
- Universal input 85-305VAC

Regulated Converter

RECOM AC/DC Converter

RAC02-SE/277/W

2 Watt Single Output



Description

The ultra-compact wired RAC02-SE/277/W modules are available with output voltages of 3.3, 5, 12 and 24V, and the input-to-output isolation is 3kVAC/1min. With a standby consumption of 35mW maximum, the mini power supplies are particularly suitable for energy-saving sleep mode and stand-by applications. Because of its compact design (height <18mm), it is a versatile solution for home automation and other similar applications. Complete with an integrated input filter, the series has enhanced EMI performance and complies with EN55032, class B. The mini power supplies are also protected against short circuit with fully automatic restart after the error has been solved. The converters are EN/UL60950-1 certified and come complete with a 3 year warranty.

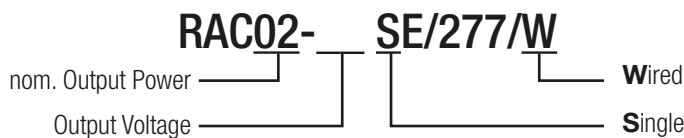
Selection Guide

Part Number	nom. Input Voltage Range [VAC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ ⁽¹⁾ [%]	Max. Capacitive Load ⁽²⁾ [µF]
RAC02-3.3SE/277/W	100-277	3.3	600	67	12000
RAC02-05SE/277/W	100-277	5.0	400	70	5500
RAC02-12SE/277/W	100-277	12	167	73	500
RAC02-24SE/277/W	100-277	24	83	76	160

Notes:

- Note1: Efficiency is tested at 230VAC and full load at +25°C ambient
 Note2: Max Cap Load is tested at nominal input and full resistive load

Model Numbering



Ordering Examples:

RAC02-05SE/277/W	2 Watt	5Vout	Single Output	Wired Version
RAC02-12SE/277/W	2 Watt	12Vout	Single Output	Wired Version



IEC/EN60950-1 certified
 CAN/CSA-22.2 No. 60950 certified
 UL60950-1 certified
 EN60335-1 certified
 EN55032 certified
 EN55024 certified
 EN55014 certified
 CB Report

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

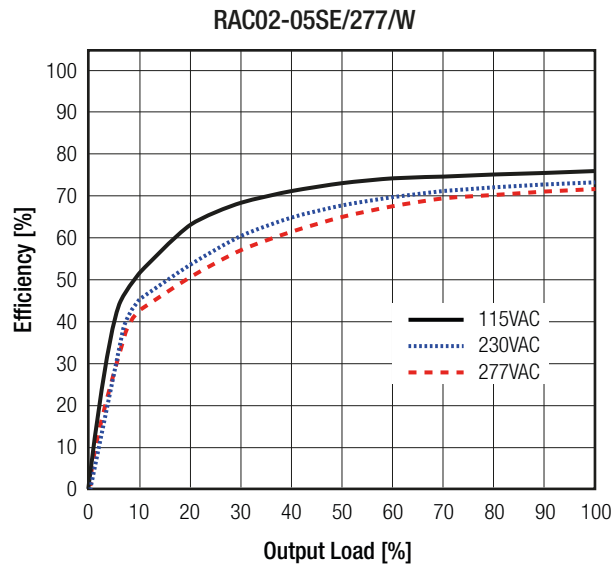
BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range ⁽³⁾	nom. Vin= 230VAC	85VAC 120VDC	277VAC	305VAC 430VDC
Input Current	115VAC 230VAC		47mA 30mA	
Inrush Current	cold start at +25°C	115VAC 230VAC		15A 30A
No load Power Consumption	85-305VAC, 47-63Hz			35mW
Input Frequency Range	AC Input	47Hz		440Hz
Minimum Load			2%	
Hold-up Time	115VAC	18ms		
Internal Operating Frequency	100% load at nominal Vin		55kHz	
Output Ripple and Noise ⁽⁴⁾	3.3Vout 5, 12, 24Vout			300mVp-p 250mVp-p

Notes:

- Note3: The products were submitted for safety files at AC-Input operation
 Note4: Ripple and Noise is the maximum peak-to-peak voltage value measured at the output with a 20MHz bandwidth, at rated line voltage at full load. And with a 47µF low-ESR electrolytic capacitor in parallel with a 0.1µF ceramic capacitor across output

Efficiency vs. Load



REGULATIONS

Parameter	Condition	Value
Output Voltage Tolerance ⁽⁵⁾		±6.0% max.
Line Regulation	low line to high line, full load	±1.5% max.
Load Regulation	2% to 100% load	6.0% typ.

Notes:

- Note5: Includes initial voltage accuracy, thermal drift, line regulation and load regulation at rated input voltage and load conditions