Features

Regulated Converters

- 30mW max of No Load Power Consumption
- High efficiency up to 80%
- Isolated Output 3kVAC / 1 min
- Short Circuit Protection
- Overvoltage Protection
- Meets EN55022 and FCC Class B
- Built-In Fusible Resistor

Selection Guide

Part Number	Output Vc tage	Max Turr nt	Total	Rinple &	F i enc	Max. Capacitive
	(VDC)	(lo, max)			(Тур.)	Load (1+2)
RAC03-3.3SC/277	3.3	900mA		200mV	71%	47000μF
RAC03-05SC/277	5	600mA	±6%	150mV	76%	15000µF
RAC03-12SC/277	18.	150mA	30/2	150mY C	78%	2200µF
RAC03-24SC/277	24	125mA	±0%	ı5UniV	80%	390µF

Specifications (measured at TA 25°C, full load after warm-up)

Input Voltage Range (with Deratir	ng)	80-305VAC or 110-430VDC	
Input Frequency		47-440Hz	
Input Current (full Load)	115VAC/230VAC	70mA / 45mA typ.	
Inrush Current	115VAC/230VAC	15A/30A max.	
No Load Power Consumption	80-305VAC / 47-440Hz	30mW max.	
Output Voltage (Vout nom.)		3.3V-24V	
Output Voltage Tolerance		±6% max.	
Minimum Load		2%	
Line Voltage Regulation	LL-HL at full Load	±1% typ. / ±1.5% max.	
Load Voltage Regulation	2-100% Load	see Selection Guide	
Hold-up Time	115VAC	15ms typ.	
	230VAC	80ms typ.	
Overcurrent Limit		116% - 156%	
Switching Frequency	at full Load	45kHz typ.	
Isolation Voltage	Input-Output	3kVAC / 1 minute	
Leakage Current	80-305VAC / 47-440Hz	10uA max.	
Isolation Resistance		1G Ω min	
Short Circuit Protection		Continuous, Auto Restart	
Over-Voltage Protection	Zener clamp, set at 4.4V-5.0V for 3.3V and others		
	112-1409	% of its nominal output voltage	
Over Voltage Category		OVC II	
Operating Temperature (5)	natural convection, without derating	-25°C to +75°C	
	natural air convection, with derating	-25°C to +85°C	
Storage Temperature		-40°C to +85°C	
Case Material		UL94V-0 black plastic	
Potting Material		Silicon	
Relative Humidity		95% RH max.	
Package Weight		28g	
Package Quantity		12 pcs	
MTBF	TA = 25°C	> 1000x10 ³ hours	
(using MIL-HDBK217F)	$TA = 75^{\circ}C$	> 100x10 ³ hours	
Physical	Dimension (LxWxH)	38.25 x 24.35 x 17.40 mm	
EMI	,	EN55022, Class B	
Noise Immunity	Report: T120816N04-E	EN55024	
Safety Standard			
EC/EN General Safety	Report: SPCLVD1208051	IEC/EN-60950-1	
UL General Safety	Report: E224736-A17-UL	UL-60950-1	
		continued on next page	

POWERLINE

AC/DC-Converter with 3 year Warranty



3 Watt Single Output



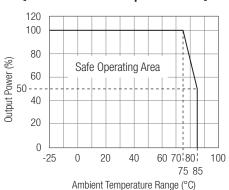


EN-60950-1 Certified UL-60950-1 Certified

RAC03-SC/277

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

POWERLINE

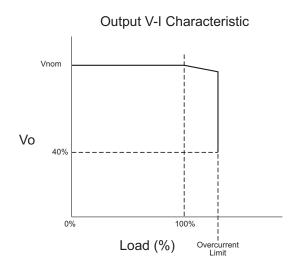
AC/DC-Converter

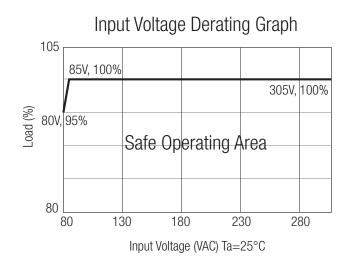
RACO3-xxSC/277 Series

Specifications (measured at TA 25°C, full load after warm-up)

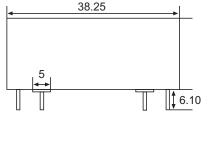
Notes:

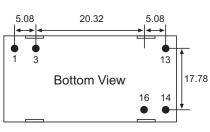
- Note1: Measured @ 230VAC / 50Hz / Ta=25°C with constant resistant mode at full load.
- Note2: If used @ 115VAC / 60Hz with full load, max. capacitive load is less, please contact RECOM for detailed information.
- Note3: "Total Regulation" is the output voltage tolerance which includes initial voltage precise, thermal drift, line regulation and load regulation at rated input voltage and load condition.
- Note4: . "Ripple & Noise" is maximum peak-to-peak voltage value measured at output within 20MHz bandwidth at rated line voltage and output load ranges, and with a 47 μ F low-ESR electrolytic capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.
- Note5: Start up only is guaranteed at temperatures down to -25°C. Other specifications may not be met.

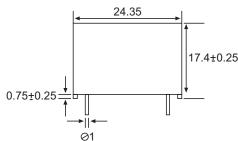


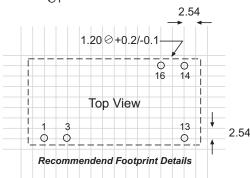


Package Style and Pinning









Pin Connections

Pin #	Single Out		
1	VAC in (L)		
3	VAC in (N)		
13	NC		
14	-VDC out		
16	+VDC out		

Tolerance ± 0.5 mm unless otherwise specified

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