Features

Regulated Converters

- 35mW max of No Load Power Consumption
- Output CV/CC Control
- Isolated Output 3kVAC / 1 min
- Short Circuit Protection
- Overvoltage Protection
- Meets EN55022 and FCC Class B
- Built-In Fusible Resistor

Selection Guide

	Output V It; je (VDC)	Max. (lo, max)	Total Rejivi/n	Rinnle &	Ef c ;;;c) (Typ.)	Max. Capacitive Load (1+2)
RAC02-3.3SC/277	3.3	600mA	E6%D	300mV	67%	24000µF
RAC02-05SC/277	5	400mA	±0%	200mV	71%	7500µF
RAC02-12SC/277	12	_167πΛ	160/	200mV	74%	1200µF
RAC02-24SC/277	24	C3IIIA		ZÖJIIIV	76%	200µF

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

Input Voltage Range (with Derating)	80-	305VAC or 110-430VDC	
Input Frequency		47-440Hz	
Input Current (full load)	115VAC/230VAC	47mA / 30mA typ.	
Inrush Current	115VAC/230VAC	15A / 30A max.	
No Load Power Consumption	80-305VAC	35mW max.	
Output Voltage (Vout nom.)		3.3V-24V	
Output Voltage Tolerance		±6% max.	
Minimum Load		2%	
Line Voltage Regulation	LL-HL at full Load	±1.5% max.	
Load Voltage Regulation	2-100% Load	see Selection Guide	
Switching Frequency	at full Load	45kHz typ.	
Isolation Voltage	Input-Output	3kVAC / 1 minute	
Leakage Current	80-305VAC	10uA max.	
Isolation Resistance		1G Ω min	
Short Circuit Protection		Continuous, Auto Restart	
Over-Voltage Protection	Zener clamp, set at 4.4~5.0V for 3.3V and		
	110~140% of its nominal	output voltage for others.	
Over Voltage Category		OVC II	
Operating Temperature Range (5)	natural convection, without deratin	g -25°C to +75°C	
	natural air convection, with deratin	g -25°C to +85°C	
	Case Temperature	90°C max	
Storage Temperature Range		-40°C to +85°C	
Case Material		UL94V-0 black plastic	
Potting Material		Silicon	
Relative Humidity		95% RH max.	
Package Weight		24.5g typ.	
Package Quantity		22 pcs	
MTBF	TA = 25°C	> 1300 x 10 ³ hours	
(using MIL-HDBK217F)	$TA = 75^{\circ}C$	> 165 x 10 ³ hours	
Physical	Dimension (LxWxH)	33.7 x 22.2 x 17.75 mm	
EMI		EN55022, Class B	
Noise Immunity	Report: T120816N03-E	EN55024	
Safety Standard			
IEC/EN General Safety	Report: SPCLVD1208051	IEC/EN-60950-1	
UL General Safety	Report: E224736-A17-UL	UL-60950-1	

POWERLINE

AC/DC-Converter with 3 year Warranty



2 Watt Single Output





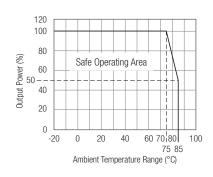


EN-60950-1 Certified UL-60950-1 Certified

RACO2-SC/277

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

POWERLINE

AC/DC-Converter

RACO2-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.

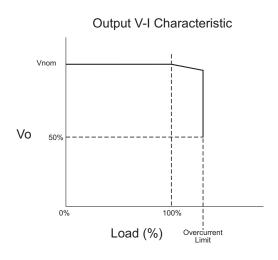
Note2: If used @ 115VAC / 60Hz with full load, max. capacitive load is less, please contact RECOM for detailed information.

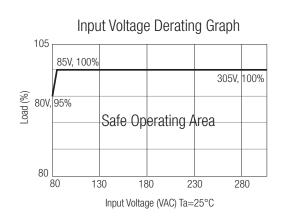
Note3: "Total Regulation" is the output voltage tolerance which includes initial voltage accuracy, thermal drift, lineregulation and load regulation at rated input voltage and load condition.

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 µF low-ESR electrolytic capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

Note5: Start up only is guaranteed at temperatures down to -25°C. Other specifications may not be met.

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





Package Style and Pinning

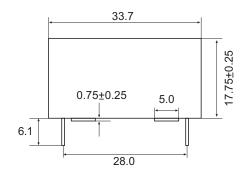
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2.85

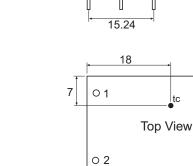
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11.1



Bottom View -



0.6

22.2

Pin	Conne

30

40

Pin Connections	
Pin #	Single Out
1	VAC in (N)
2	VAC in (L)
3	-VDC out
4	+VDC out
Tolerance +0.5mm	n unless

Tolerance ±0.5mm unless otherwise specified

The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer 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.

0.75±0.25

7.62