NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 12TH AUG 2022)

Features

Compact low profile AC-DC power supply

- 30mW no load power consumption
- Class II power supply with 3kVAC isolation
- Universal input voltage range (80~264VAC)
- Low output ripple/noise
- . EN, UL and CE certified

Regulated **Converters**

Description

The RAC01-SC and RAC02-SC series are ultra-compact universal input AC/DC power modules for PCB mounting. They feature high efficiency, low standby power, high operating temperature, soft start and short-circuit protection as well as a built-in EMC Class B filter. Output voltages range from 3.3VDC to 24VDC.

Selection Gu	ide				
Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ [%]	Max. Capacitive Load ^(1,2) [μF]
RAC01-3.3SC	80-264	3.3	300	65	2200
RAC01-05SC	80-264	5	200	68	1600
RAC01-09SC	80-264	9	111	70	470
RAC01-12SC	80-264	12	83	72	180
RAC01-15SC	80-264	15	67	72	180
RAC01-24SC	80-264	24	42	73	68
RAC02-3.3SC	80-264	3.3	600	66	2700
RAC02-05SC	80-264	5	400	70	2000
RAC02-09SC	80-264	9	222	72	560
RAC02-12SC	80-264	12	167	74	200
RAC02-15SC	80-264	15	133	74	200
RAC02-24SC	80-264	24	83	77	68

Notes:

Note1: Measured @ 230VAC / 50Hz / Ta=25°C with constant resistive load

Note2: If used @ 115VAC / 60Hz with full load, maximum capacitive load is less, please contact

techsupportAT@recom-power.com for detailed information

Model Numbering



Notes:

Note3: "1" for 1 Watt, "2" for 2 Watt

Ordering Examples:

RAC01-12SC	1 Watt	12Vout	Single Output
RAC01-05SC	1 Watt	5Vout	Single Output
RAC02-3.3SC	2 Watt	3.3Vout	Single Output
RAC02-24SC	2 Watt	24Vout	Single Output



RAC01-C RAC02-C

1-2 Watt **Single Output**



















PREFERRED ALTERNATIVES

Please consider these alternatives:

RAC02E-K/277

EN60950-1 certified UL60950-1 certified

*EN60335-1 certified (only 2W version)



Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)

BASIC CHARACTERISTICS					
Parameter	Condition		Min.	Тур.	Max.
Input Voltage Range (4)	nom. Vin = 230V	AC	80VAC 115VDC		264VAC 370VDC
1 10	RAC01-C	115VAC 230VAC			34mA 23mA
Input Current	RAC02-C	115VAC 230VAC			55mA 36mA
Inrush Current	<0.5ms cold start at 25°C	115VAC 230VAC			30A 60A
No load Power Consumption	115VAC 230VAC			30mW 80mW	
Input Frequency Range	AC Input		47Hz		63Hz
Minimum Load (5)				0%	
Start-up Time	115VAC 230VAC			3ms 1.5ms	
Rise Time	115VAC/ 230VA	C		20ms	
Hold-up time	115VAC 230VAC			10ms 60ms	
Internal Operating Frequency	100% load at nomin	al Vin		30kHz	
Output Ripple and Noise (6)	20MHz BW	3.3Vout all others			150mVp-p 100mVp-p

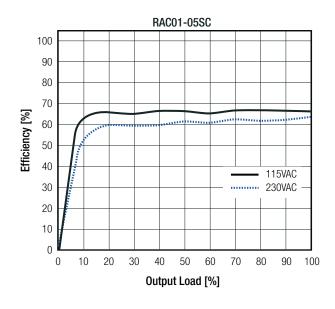
Notes:

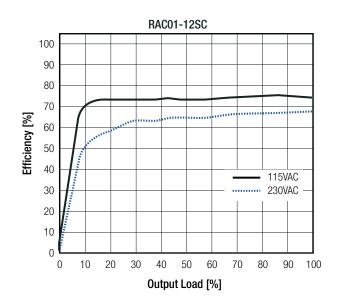
Note4: Refer to line derating graph on page 3

Note5: Operation below 10% load won't harm the converter, but specifications may not be met

Note6: Ripple and Noise is the maximum peak-to-peak voltage value measured at the output with a 20MHz bandwidth, at rated line voltage and full load

Efficiency vs. Load

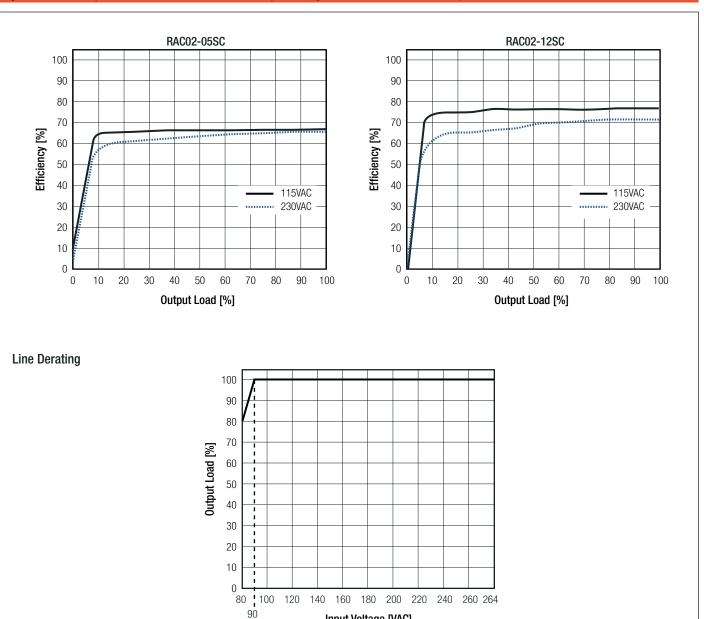




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Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)



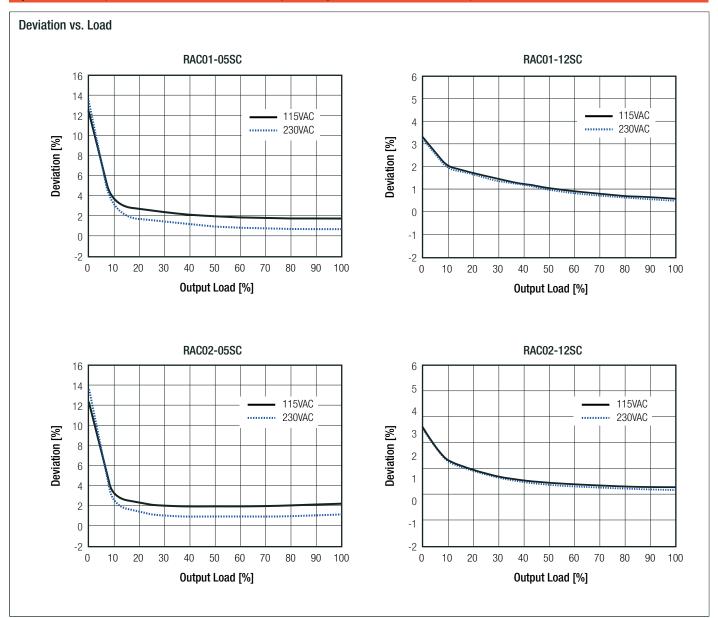
REGULATIONS		
Parameter	Condition	Value
Output Accuracy		±5.0% typ.
Line Regulation	low line to high line	±2.0% max.
Load Regulation	10% to 100% load	6.0% max.

Input Voltage [VAC]

continued on next page



Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)



PROTECTIONS			
Parameter		Туре	Value
Short Circuit Protection (SCP)	bel	ow 100mΩ	Hiccup mode, automatic recovery
Over Voltage Category			OVCII
Class of Equipment			Class II
Isolation Voltage	I/P to O/P	rated for 1 minute	3kVAC
Isolation Resistance			1GΩ min.
Isolation Capacitance			1000pF max.
Insulation Grade			reinforced
Leakage Current			0.25mA max.

Notes:

Note7: Refer to local wiring regulations if input over-current protection is also required

Note8: An external MOV is recommended for operation 230VAC. The Varistor should comply with IEC-61051-2. e.g. EPCOS S14 Series

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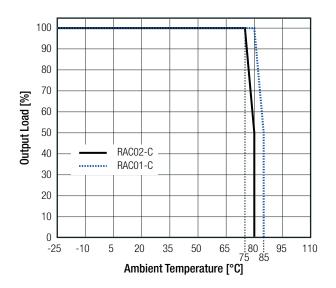
Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)

Protection Circuit L N F VAC_{in}(L) VAC_{in}(N) -V_{out} -V_{out} -V_{out}

ENVIRONMENTAL				
Parameter	Condition	on		Value
		full load	RAC01-C	-25°C to +80°C
Operating Temperature Range	@ natural convection 0.1m/s	Tull load	RAC02-C	-25°C to +75°C
		refer to de	rating graph	-25°C to +85°C
Maximum Case Temperature				+95°C
Temperature Coefficient	+25°C to +	75°C		0.1%°C
Thermal Impedance	0.1m/s, hori	zontal		27°C/W
Operating Altitude				2000m
Operating Humidity	non-conde	nsing		95% RH max.
Pollution Degree				PD2
Vibration				according to MIL-STD-810F
MTBF	according to MIL-HDBK-217F, G.B.	+5	5°C 5°C 0°C	666 x 10 ³ hours 395 x 10 ³ hours 125 x 10 ³ hours

Derating Graph

(@ Chamber and natural convection 0.1m/s)



Notes:

Note9: Start-up is only guaranteed at temperatures down to -25°C; otherwise specifications may not be met



Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)

Information Technology Equipment - General Requirements for Safety (CB Scheme) L0339m10-CB-1-B1 EC60950-1:2005, 2nd Edition + A2:20 Information Technology Equipment - General Requirements for Safety (CB Scheme) L0339m10-CB-1-B1 EC60950-1:2005, 2nd Edition + A2:20 Information Technology Equipment, General Requirements for Safety E224736-A5 CSA C22; 2 60950-1; 2nd Edition, 20 CSA C22; 2 60950-1; 2nd Edition, 20 CSA C32; 2 6095	Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety F224736-A5 CSA C222 60950-1, 2nd Edition, 20 CSA C22 60950-1, 2nd Edition,	Information Technology Equipment - General Requirments for Safety	1606038	EN60950-1:2006 + A2:2013 IEC60950-1:2005, 2nd Edition + A2:2013
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DC Output: ±0.5kV AC Power Port:L to N ±2kV DC Output: L to N ±1kV IEC61000-4-5:2014, Criteria mmunity to conducted disturbances, induced by radio-frequency fields Voltage Dips and Interruptions Voltage Dips 30% Voltage Dips 30% Voltage Interruptions >95% Limits of Harmonic Current Emissions EC61000-4-1:2012, Criteria EC61000-4-5:2014, Criteria Voltage Dips >95% Voltage Dips >95% Voltage Dips 30% Voltage Interruptions >95% EC61000-4-11:2004, Criteria EN61000-3-2:20	Radiated, radio-frequency, electromagnetic field immunity test	3V/m	IEC61000-4-3:2006 + A2:2010, Criteria
Burge Immunity DC Output: L to N ±1kV IEC61000-4-5:2014, Criteria 3 Vr.m.s. IEC61000-4-6:2013, Criteria Voltage Dips >95% Voltage Dips 30% Voltage Dips 30% Voltage Dips 30% Voltage Interruptions >95% Limits of Harmonic Current Emissions EN61000-3-2:20	Fast Transient and Burst Immunity		EC61000-4-4:2012, Criteria
Voltage Dips and Interruptions Voltage Dips >95% Voltage Dips 30% Voltage Dips 30% IEC61000-4-11:2004, Criteria Voltage Interruptions >95% IEC61000-4-11:2004, Criteria Voltage Interruptions >95% IEC61000-4-11:2004, Criteria Emits of Harmonic Current Emissions EN61000-3-2:20			IEC61000-4-5:2014, Criteria
Voltage Dips 30% IEC61000-4-11:2004, Criteria Voltage Interruptions >95% IEC61000-4-11:2004, Criteria I	Surge Immunity		IEC61000-4-6:2013, Criteria
imits of Harmonic Current Emissions EN61000-3-2:20		·	
	mmunity to conducted disturbances, induced by radio-frequency fields	3 Vr.m.s. Voltage Dips >95% Voltage Dips 30%	IEC61000-4-11:2004, Criteria IEC61000-4-11:2004, Criteria
Limits of Voltage Fluctuations & Flicker EN61000-3-3:20	mmunity to conducted disturbances, induced by radio-frequency fields Voltage Dips and Interruptions	3 Vr.m.s. Voltage Dips >95% Voltage Dips 30%	IEC61000-4-11:2004, Criteria IEC61000-4-11:2004, Criteria



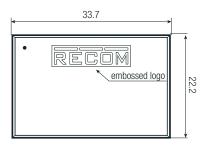
Specifications (measured at Ta= 25°C, nominal input voltage, full load otherwise noted)

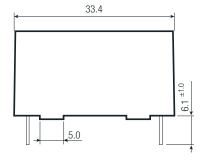
DIMENSION AND PHYSICAL CHARACTERI	STICS	
Parameter	Туре	Value
	case	black plastic (UL94V-0)
Material	potting	silicone (UL94V-0)
	PCB	FR4, (UL94V-1)
Dimension (LxWxH)		33.7 x 22.2 x 17.75mm
Weight		25g typ.

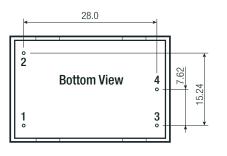
Dimension Drawing (mm)



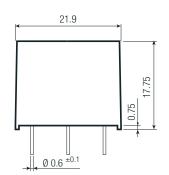








Allow 5mm clearance around converter for air circulation





Pin	Conn	ection	s
PIN	Conn	ection	S

Pin #	Single				
1	VAC in (N)				
2	VAC in (L)				
3	-Vout				
4	+Vout				
Tolerance:	xx.x= ±0.5mm				

 $xx.xx = \pm 0.25 \text{mm}$

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	tube	520.0 x 37.0 x 28.0mm		
Packaging Quantity		22pcs		
Storage Temperature Range		-40°C to +100°C		
Storage Humidity	non-condensing	95% RH max.		

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant 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.