

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

Regulated Converters

- Universal Input 80-264VAC or 115-370VDC
- Operating Temperature Range of -25°C to +85°C
- Isolated Output 3kVAC / 1 min
- Short Circuit and Overcurrent Protection
- Low Output Ripple & Noise
- Low Cost AC/DC Power Supply
- EN, UL and CE certified

Description

The ultra-compact wired RAC04-C/W modules are available with output voltages of 3.3, 5, 9, 12, 15, and 24V, and the input-to-output isolation is approximately 3kVAC/1min. With a standby consumption of 100mW typical, the mini power supplies are particularly suitable for energy-saving sleep mode and standby applications. Because of its compact design (height <17 mm), 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 EN55022, 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.

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Part Number	Input Voltage (VAC)	Output Voltage (VDC)	Output Current max. (mA)	Efficiency Typ. (%)	Capacitive Load max.
RAC04-3.3SC/W	80-264	3.3	1200	67	3000µF
RAC04-05SC/W	80-264	5	800	72	1600µF
RAC04-09SC/W	80-264	9	444	76	850µF
RAC04-12SC/W	80-264	12	333	77	150µF
RAC04-15SC/W	80-264	15	267	77	100μF
RAC04-24SC/W	80-264	24	167	79	82µF

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

Input Voltage Range (with Dera	ating)	80-264VAC or 115-370VDC
Input Frequency (for AC Input)		47-63Hz
Input Current (Full Load)	115VAC / 230VAC	110mA / 72mA max.
Inrush Current	115VAC / 230VAC	30A / 60A max.
No Load Power Consumption	80-264VAC	100mW typ. / 200mW max.
Output Voltage (Vout nom.)		3.3V-24V
Output Current Range		167mA - 1200mA
Rated Output Power		4W max.
Output Voltage Tolerance		±2% typ. / ±5% max.
Minimum Load		0%
Output Ripple & Noise (Fu	ıll Load)115VAC / 230VAC @ 20MHz limited	200mVp-p max.
Line Voltage Regulation	LL-HL at full Load	±0.5% typ. / ±1% max.
Load Voltage Regulation	10%-100% Load	±1.5% typ. / ±5% max.
Over Load Protection		105% - 155%
Over Voltage Category		OVC II
Leakage Current		0.85μxA max.
Operating Frequency	Full Load	40kHz typ.
Isolation Voltage	Input-Output	3kVAC / 1 minute
Isolation Resistance	Input-Output	1G Ω min.
Isolation Capacitance	Input-Output	1000pF typ.
Short Circuit Protection		Hiccup, Auto Restart
Operating Temperature Range	natural convection, without derating	-20°C to +60°C
	natural air convection, with derating	-25°C to +85°C
Storage Temperature Range		-40°C to +100°C
Case Material		UL94V-0 black plastic
Potting Material		Silicone
Relative Humidity		95% RH max.
Package Weight		32g typ.

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POWERLINE

AC/DC-Converter with 3 year Warranty



4 Watt Single Output



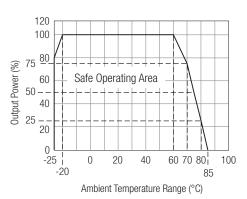


EN-60950-1 Certified IEC-60950-1 Certified UL-60950-1 Certified

RACO4-C/W

Derating-Graph

(Ambient Temperature)



POWERLINE

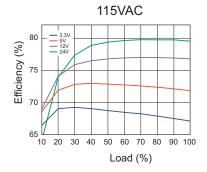
AC/DC-Converter

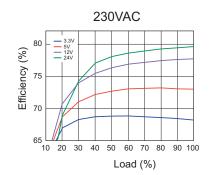
RACO4-xxxC/W Series

Specifications (measured at TA 25°C, nominal input voltage, full load after warm-up)				
Package Quantity		30pcs		
Physical	Dimension (LxWxH)	37.80 x 23.90 x 16.40 mm		
MTBF	115VAC, 25°C	820 x 10 ³ hours		
	230VAC, 25°C	735 x 10 ³ hours		
	115VAC, 60°C	550 x 10 ³ hours		
	230VAC, 25°C	430 x 10 ³ hours		
EMC	Conducted and Radiated	EN55022, Class B		
	Noise Immunity	EN55024		
Safety Standard				
EN General Safety	Report: SPCLVD1310055-1	EN-60950-1, 3rd Edition		
IEC General Safety	CB Report: 1311055-CB	IEC-60950-1 2nd Edition		
UL General Safety	Report Number: E224736-A21	UL-60950-1, 2nd Edition		
		CSA C22.2 No. 60950-1-07		

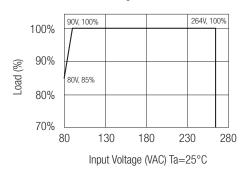
Typical Characteristic

Input Voltage Derating Graph

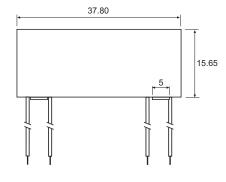


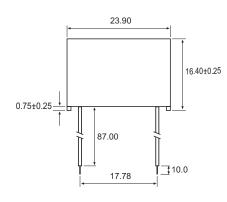


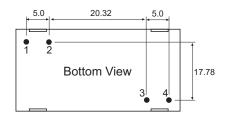
Efficiency vs Load



Package Style and Pinning









Wired Connections

Wired Color		Туре	Function	
1	Brown	UL-1015 AWG#22	VAC in (L)	
2	Blue	UL-1015 AWG#22	VAC in (N)	
3	Red	UL-1430 AWG#22	+VDC out	
4	Black	UL-1430 AWG#22	-VDC out	

Case Tolerance ±0.5mm
Unless otherwise specified

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