

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

- Very Compact AC-DC Power Supply
- 6 Watt PCB Mount Package
- Single and Dual Output Versions
- Universal Input Voltage Range
- Class II Power Supply with 3kVAC Isolation
- Low Output Ripple and Noise
- Short Circuit, Overload, Overtemp Protected
- Low Standby Power Consumption
- UL/cUL Certified, CE Marked

Description

Compact, low cost, high efficiency, universal input switching AC/DC power module for PCB or wired mounting with single or dual outputs. CE marked and UL/cUL Certified.

Selection Guide					
Part Number	Input Range (VAC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)	Max Capacitive Load (1+2)
RAC06-3.3SC*	80-264	3.3	1500	70	12000µF
RAC06-05SC*	80-264	5	1200	75	6800µF
RAC06-09SC*	80-264	9	667	77	2500µF
RAC06-12SC*	80-264	12	500	78	1500μF
RAC06-15SC*	80-264	15	400	79	750µF
RAC06-24SC*	80-264	24	250	79	330µF
RAC06-05DC*	80-264	±5	±600	75	±3300µF
RAC06-12DC*	80-264	±12	±250	78	±680µF
RAC06-15DC*	80-264	±15	±200	79	±330µF

^{*} add suffix /W for wired version

Specifications (measured at TA 25°	C, full load after warm-u	nb)	
Input Voltage Range (with derating)		80-264VAC or 115-370VDC	
Rated Power		6 Watts max.	
Input Frequency Range (for AC Input)		47-440Hz	
Input Current (full load)	115/230VAC	120mA / 78mA typ.	
No Load Power Consumption		250mW max.	
Inrush Current (<2ms)	115/230VAC	30A/60A max.	
Holdup Time (Full Load)	115VAC	10ms typ.	
Leakage Current		0.85mA max.	
Output Voltage Accuracy (Full load)		±2% max.	
Line Voltage Regulation (low line, high line at full load)		±0.3% typ.	
Load Voltage Regulation (5% to 100% full load)		±0.5% typ.	
Output Ripple and Noise (20MHz BW)	3.3V Output	120mVp-p max.	
(with 100nF across each output)	All Others	150mVp-p max.	
Operating Frequency (full load)		132kHz typ.	
Minimum Load = 0%	specificat	ions valid for 5% minimum load only	
RMS Isolation Voltage (input to output)		3kVAC / 1minute	
Isolation Resistance (input to output)		1 GΩ min.	
Isolation Capacitance (input to output)		1000pF typ.	
Short Circuit Protection		Hiccup, Automatic Restart	
Overload Protection	115VAC/230VAC	115% ~ 145%	
Output Overvoltage Protection		Zener Diode Clamp	
(set at 4.8V - 5.4V for 3.3V and others 110% - 135% of its Nominal Output Voltage)			
Over Voltage Category		OVC II	

continued on next page

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AC/DC-Converter with 3 year Warranty



6 Watt Single/Dual Output

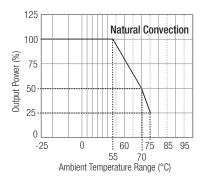


EN-60950-1 Certified UL-60950-1 Certified



Derating-Graph

(Ambient Temperature)



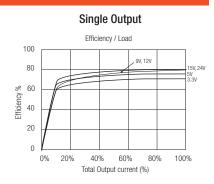
Refer to Application Notes

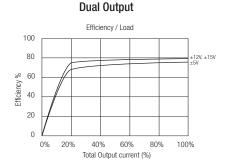
POWERLINE

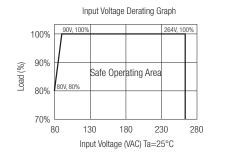
AC/DC-Converter

RACO6-S_DC Series

Specifications (measured at TA	A 25°C, full load afte	r warm-up)	
Operating Temperature Range (3)	(free air con	-25°C to +55°C	
	(free air con	vection, with derating)	-25°C to +75°C
Storage Temperature Range			-40°C to +100°C
Recommended External Input Fuse			1.5A Slow Blow
Humidity			95% RH max.
Case Material		Plastic Case filled wi	th Epoxy (UL94V-0)
Package Weight	Single/Dual 35g/3		35g/38g
Packing Quantity	Single Output		10 pcs
	Dual Outpu	ıt	9 pcs
	/W Version		1 pc
Emissions	CE	EN 55022: 2006 +	A1: 2007 / Class B
	EMC	EN 55024:1998 + A	1:2001 + A2:2003
	Harmonics	EN 61000-	3-2:2006 / Class A
	Flicker	EN 61000-3-3:1995 + A	A1:2001 +A2:2005
Immunity	ESD	IEC 6100	00-4-2 / Criterion B
	RS	IEC 6100	00-4-3 / Criterion A
	EFT	IEC 6100	00-4-4 / Criterion B
	Surge	IEC 6100	00-4-5 / Criterion B
	CS	IEC 6100	00-4-6 / Criterion A
	PMF	IEC 6100	00-4-8 / Criterion A
	Voltage Variations	IEC 61000-4	-11 / Criteria B + C
MTBF (+25°C)	using MIL-H	IDBK-217F	>400 x 10 ³ hours
(+65°C)			>200 x 10 ³ hours
Certifications:			
UL General Safety	Report: E224736	UL-60	950-1, 2nd Edition
cUL	Report: E224736	C22.2 No. 60950	0-1-07, 2nd Edition
EN General Safety	Report: SPCLVD1	211033-1 EN-60950-1	:2006 + A12:2011
CE			EN55022 Class B
Notes:			







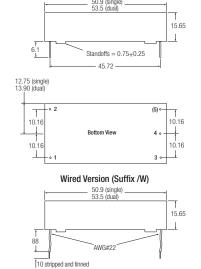
Note1: Measured @ 230VAC / 50Hz / Ta=25°C with constant resistant mode at full load.

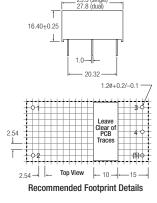
Note2: If used @ 115VAC / 60Hz with full load, max. capacitive load is less, please contact RECOM for detailed information.

Note3: Start up only is guaranteed at temperatures down to -25°C. Other specifications may not be met.

Package Style and Pinning

PCB Mounting Version (Standard)





Pin Connections				
Pin #	Single Out	Dual Out		
1	VAC in (N)	VAC in (N)		
2	VAC in (L)	VAC in (L)		
3	+VDC out	+VDC out		
4	-VDC out	Com		
5	No Pin	-VDC out		
Tolerance	± 0.5 mm	·		

Wire Connections				
Wire	AWG#22	Single Out	Dual Out	
Blue	1015	VAC in (N)	VAC in (N)	
Brown	1015	VAC in (L)	VAC in (L)	
Red	1007	+VDC out	+VDC out	
Black	1007	-VDC out	Com	
Orange	1007		-VDC out	

The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications.

The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.