imall

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Features

Regulated

Converters

- Built-in Active PFC
- Efficiency up to 88%

• Isolated Output 3kVAC / 1 min

- SCP, OVP, OLP, OTP Protection
- Operating Temperature Range -20°C to +70°C
- Universal Input 90-264VAC/120VDC-370VDC

Description

These industrial grade power supplies have been designed to give many years of trouble-free life. Despite their low cost, they use high grade electrolytic capacitors to ensure heavy industry performance levels, working reliably over an extended temperature and world-wide input voltage range. The RACG series are more compact than the standard industry size, yet offer higher performance with full output protection (SCP, OVP, OTP, OLP), active power factor correction and improved input surge, hold-up time and efficiency ratings. The power supplies can be mounted horizontally or vertically and are certified to CE, UL and Class B EMC standards. Typical uses are industrial, commercial and high reliability applications. The RACG series come with a 3 year warranty.

Selection Guide						
Part Number	nom. Input Voltage Range (VAC)	Input Current max. (A)	Output Voltge (VDC)	Adj. Output Voltage (VDC)	Output Current max. (A)	Efficiency (@230VAC) typ. (%)
RACG150-12S	100-240	1.9	12	10.8-13.2	12.5	86
RACG150-24S	100-240	1.9	24	21.6-26.4	6.3	87
RACG150-48S	100-240	1.9	48	43.2-52.8	3.2	88

Specifications (measured at T_a= 25°C, nominal input voltage (115/230VAC), full load and after warm-up)

RECOM AC/DC Converter

RACG150

150 Watt Single Output









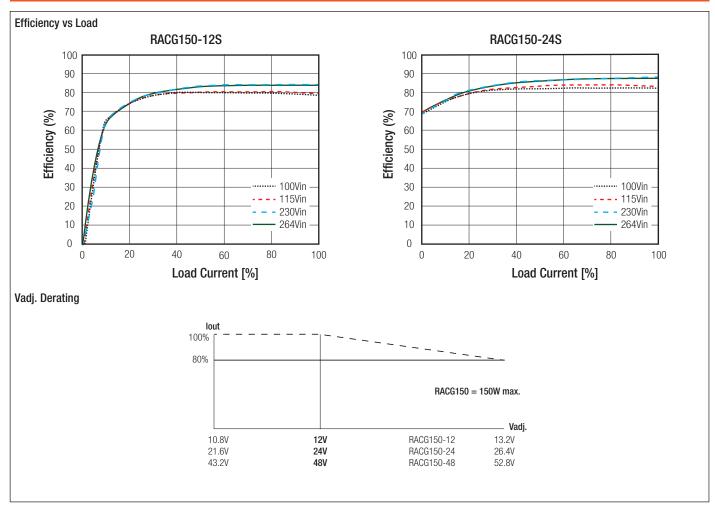
UL60950-1 Certified

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC 120VDC		264VAC 370VDC
Inrush Current	cold start, 115VAC cold start, 230VAC			30A 45A
No load Power Consumption			3W	
Input Frequency Range		47Hz		63Hz
Set-up time	115VAC 230VAC			3s 2s
Hold-up time	220VAC		18ms	
Output Voltage adjust			±10%	
Minimum Load			0%	
Power Factor	115VAC 230VAC		0.98 0.95	
Output Ripple and Noise (1)	0°C to +70°C -20°C to 0°C		100mVp-p 200mVp-p	
Notes:				
Note1:	Measured @ 20MHz Bandwidth wit	h a 0.1µF capacit	or.	
continued on next page				

RECOM AC/DC Converter

RACG150 Series

Specifications (measured at $T_a = 25^{\circ}C$, nominal input voltage, full load and after warm-up)



REGULATIONS			
Parameter	Condition	Value	
Output Voltage Accuracy		±2% max.	
Line Voltage Regulation	low line to high line, full load	±0.5% max.	
Load Voltage Regulation	12Vout	±2% max.	
	24Vout, 48Vout	±1% max.	

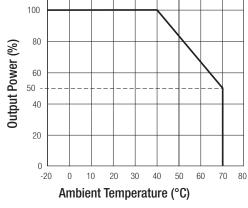
PROTECTIONS			
Parameter	Туре	Value	
Input Fuse	internally	T5A, slow blow	
Short Circuit Protection (SCP)		continuous, Hiccup and auto recovery	
Over Voltage Protection (OVP)		115% - 150% of rated output voltage, Hiccup and auto recovery	
Over Load Protection (OLP)		105% - 150%, of rated output current, Hiccup and auto recovery	
Over Temperature Protection (OTP)	detected on Mosfet temperature	+105°C ±5°C auto restart after cooling down to +60°C	
	I/P to O/P	3kVAC / 1 Minute	
Isolation Voltage	I/P to Case	1.5kVAC / 1 Minute	
	O/P to Case	500VAC / 1 Minute	
Isolation Resistance		100MΩ min.	
Leakage Current	I/P to O/P	0.25mA min.	
	I/P to Case	3.5mA min.	

RECOM AC/DC Converter

RACG150 Series

Specifications (measured at Ta= 25°C, nominal input voltage (115/230VAC), full load and after warm-up)

ENVIRONMENTAL			
Parameter	Condition	Value	
Operating Temperature Range	with derating	-20°C to +70°C	
Temperature Coefficient		0.03%/°C	
Operating Humidity	non-condensing	20% - 90%, RH max.	
Moisture Protection		conformally coated PCB	
Operating Altitude		5000m	
MTBF	MIL-HDBK-217F,ground benign, +25°C	200 x 10 ³ hours	
Derating Graph	100		



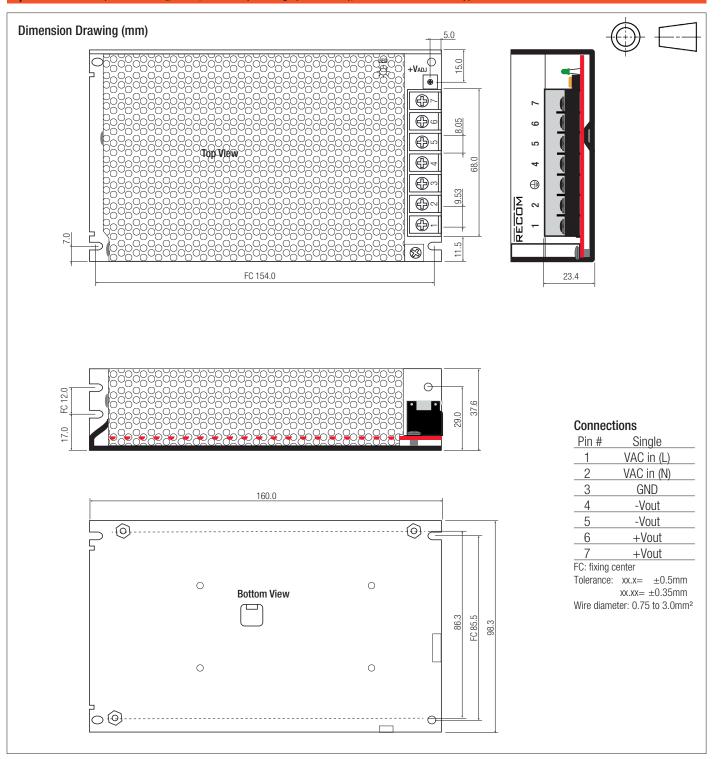
SAFETY AND CERTIFICATIONS			
Certificate Type	Report / File Number	Standard	
UL General Safety	E196683	UL60950-1	
CAN/CSA General Safety	E196683	C22.2 No. 60950-1	
Certificate Type (designed to meet)		Standard	
IEC/EN General Safety		IEC/EN60950-1	
EMC Compliance	Conditions	Standard / Criterion	
EMI Standard	internal filter	EN55022, Class B	
Harmonic Current		EN61000-3-2, Class A	

DIMENSION and PHYSICAL CHARACTERISTICS			
Value	Туре	Parameter	
Aluminium		Case Material	
160 x 98 x 38mm		Package Dimension (LxWxH)	
610g typ.		Package Weight	
		Package Weight	



RACG150 Series

Specifications (measured at Ta= 25°C, nominal input voltage (115/230VAC), full load and after warm-up)



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Cardboard box	170 x 102 x 45mm	
Packaging Quantity		1pc	
Storage Temperature Range		-30°C to +85°C	
Storage Humidity	non-condensing	10% - 90%, RH max.	

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.