Features

- Built-in active PFC
- Efficiency up to 88%
- Isolated output 3kVAC / 1 minute

SCP, OVP, OLP, OTP protection

Regulated Converter

- Operating temperature range -20°C to +70°C
- Universal input 90-264VAC / 120VDC-370VDC
- Conformal coating

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	Input Voltage Range [VAC]	Input Current max. [A]	nom. Output Voltge [VDC]	Adj. Output Voltage ⁽¹⁾ [VDC]	Output Current max. [A]	Efficiency typ. ⁽²⁾ [%]
RACG150-12S	90-264	1.9	12	10.8-13.2	12.5	86
RACG150-24S	90-264	1.9	24	21.6-26.4	6.3	87
RACG150-48S	90-264	1.9	48	43.2-52.8	3.2	88

Notes:

Note1: For detail information please refer to graph on page PA-2 Note2: Efficiency is tested at 230VAC and full load at +25°C ambient

Model Numbering RACG150-<u>S</u> nom. Output Power Single Output Voltage · **Ordering Examples:** Single Output RACG150-12S 150 Watt 12Vout RACG150-48S 150 Watt Single Output 48Vout 1.61 -

Parameter	Condition		Min.	Тур.	Max.
Input Voltage Range ⁽³⁾	nom. Vin = 230VDC		90VAC 120VDC		264VAC 370VDC
Inrush Current	cold start at +25°C	115VAC 230VAC			30A 45A
No load Power Consumption				ЗW	
Input Frequency Range			47Hz		63Hz
Minimum Load				0%	
Power Factor	115VAC 230VAC			0.98 0.95	
Set-up Time	115VAC 230VAC				3s 2s
Hold-up Time	230VAC			18ms	

RECOM AC/DC Converter

RACG150

150 Watt Single Output



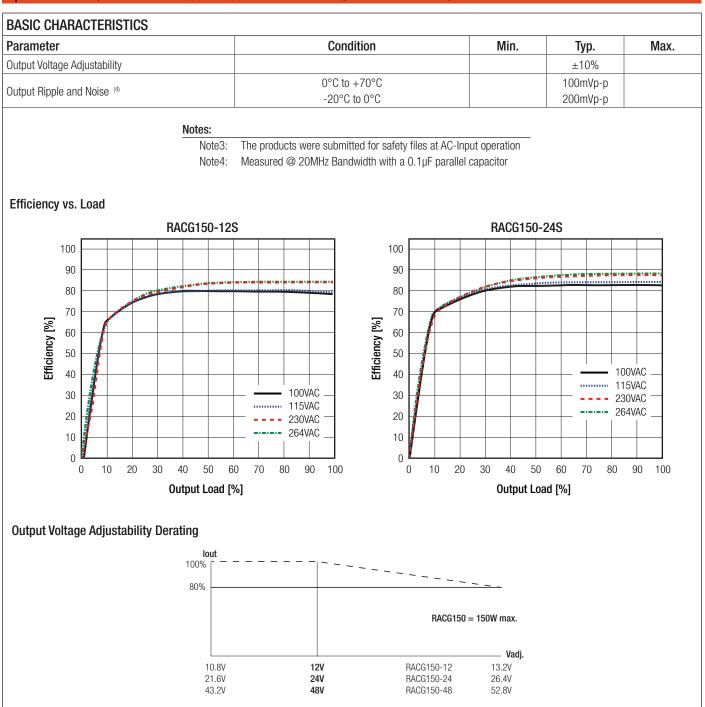




EN60950 certified CAN/CSA-C22.2 No. 60950 certified UL No. 60950 certified EN55032 compliant EN55024 compliant

RACG150 Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)



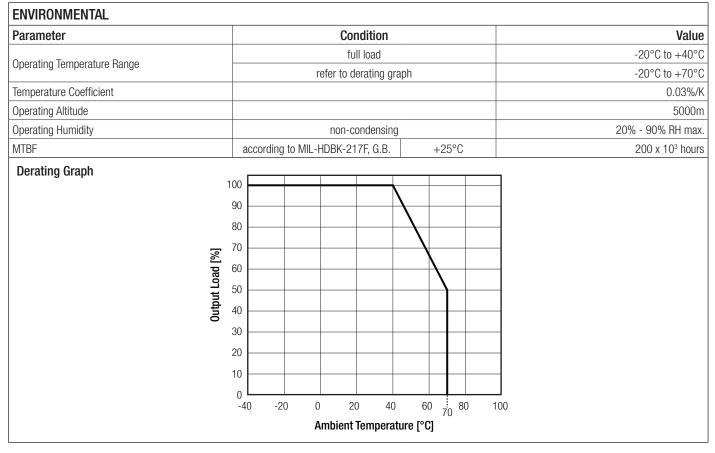
REGULATIONS		
Parameter	Condition	Value
Output Accuracy		±2.0% max.
Line Regulation	low line to high line, full load	±0.5% max.
Load Regulation	12Vout	2.0% max.
	24Vout, 48Vout	1.0% max.

RACG150 Series

Specifications (measured @ Ta= 25°C, nom. Vin (115/230VAC), full load and after warm-up)

PROTECTIONS

Parameter	Туре		Value
Input fuse ⁽⁵⁾	internal		T5A, slow blow
Short Circuit Protection (SCP)			continuous, hiccup and auto recovery
Over Voltage Protection (OVP)			115% - 150% of rated output voltage, continuous, hiccup and auto recovery
Over Current Protection (OCP)			105% - 150% of rated output voltage, continuous, 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
Isolation Voltage	tested for 1 minute	I/P to case	1.5kVAC
		I/P to case	500VAC
Isolation Resistance			100MΩ min.
Leakage Current	I/P to O/P I/P to case		0.25mA max.
			3.5mA max.
N	lotes:		
Note5: Refer to local safety regulations if input over-current protection is also required			



RACG150 Series

Specifications (measured @ Ta= 25°C, nom. Vin (115/230VAC), full load and after warm-up)

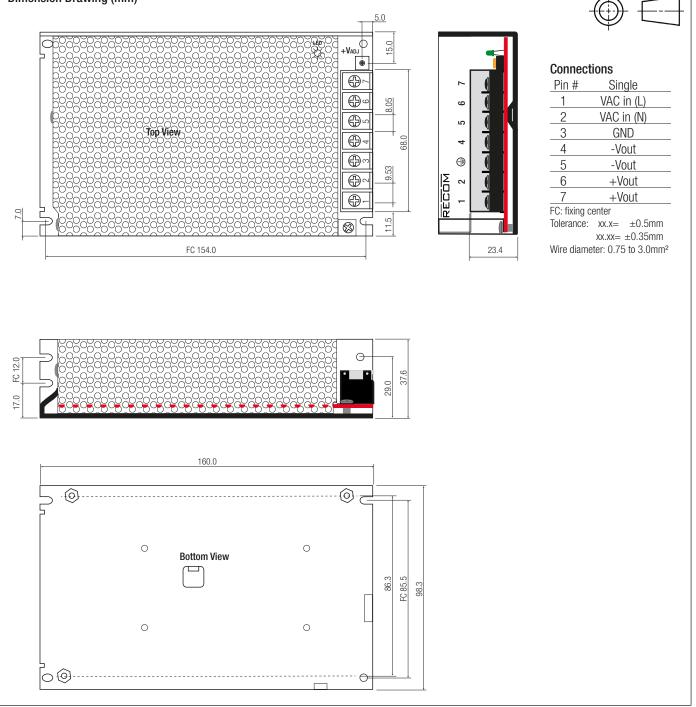
SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E196683	CAN/CSA-C22.2 No. 60950-1 UL No. 60950-1
Information Technology Equipment, General Requirements for Safety		EN60950-1:2006 + A2:2013
EAC Safety of Low Voltage Equipment	RU-AT.49.09571	TP TC 004/2011
RoHS2+		RoHS-2011/65/EU + AM-2015/863
EMC Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015; Class B
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010 + A1:2015
ESD Electrostatic discharge immunity test	contact ±2.0, 4.0kV	EN61000-4-2:2009; Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3:2006 + A2:2010; Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1.0kV	EN61000-4-4:2012; Criteria A
Surge Immunity	AC Power Port: L-N ±1.0kV L-PE, N-PE ±2.0kV	EN61000-4-5:2014; Criteria B
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	EN61000-4-6:2014; Criteria A
Power Magnetic Field Immunity	50Hz, 1.0A/m	EN61000-4-8:2010; Criteria A
Voltage Dips and Interruption	Voltage Dips >95%	EN61000-4-11:2004; Criteria A
	Voltage Dips 30%	EN61000-4-11:2004; Criteria A
	Voltage Interruptions > 95%	EN61000-4-11:2004; Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Class A
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013

DIMENSION AND PHYSICAL CHARACTERISTICS			
Туре	Value		
Case	aluminium		
	160.0 x 98.0 x 38.0mm		
	610g typ.		
	Туре		

RACG150 Series

Specifications (measured @ Ta= 25°C, nom. Vin (115/230VAC), full load and after warm-up)





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard box	170.0 x 102.0 x 45.0mm		
Packaging Quantity		1 pcs		
Storage Temperature Range		-30°C to +85°C		
Storage Humidity	non-condensing	10% - 90% 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.