NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 27TH NOV 2020)

Features

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

Regulated Converter

- SCP, OLP protection
- Operating temperature range -20°C to +60°C
- Universal input 90-264VAC / 120VDC-370VDC

Description

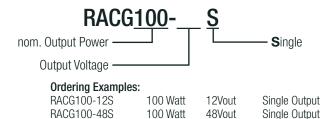
These industrial grade power supplies have been designed to give many years of trouble-free life. Despite their low cost, they use high grade electrolytic capacitors and are certified to heavy industry performance levels, working reliably over an extended temperature and world-wide input voltage range. The RACG series are more compact than the standard industry size, yet offer higher performance with full output protection (SCP, 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 fully 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⁾ [%]
RACG100-05S	90-264	1.5	5	3.3-5.5	20	84
RACG100-12S	90-264	1.5	12	10-15	8.5	87
RACG100-24S	90-264	1.5	24	21-27	4.5	88
RACG100-48S	90-264	1.5	48	43.2-52.8	2.2	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



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

Parameter	Condition		Min.	Тур.	Max.
Input Voltage Range (3)	nom. Vin = 230VDC		90VAC		264VAC
input voltage hange **			120VDC		370VDC
Inrush Current	cold start at +25°C	115VAC			30A
IIIIusii Guiteiii	Cold Start at +25 G	230VAC			50A
No load Power Consumption				3W	
Input Frequency Range			47Hz		63Hz
Minimum Load				0%	
Power Factor	115V/	AC .		0.98	
Power Factor	230VAC			0.93	
Cat un Tima	115VAC				4s
Set-up Time	230VAC				2s
Hold-up Time	230VAC			20ms	



RACG100

100 Watt Single Output









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

SEARCHING FOR ALTERNATIVES?

Contact RECOM

https://recom-power.com/contact.html

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Series

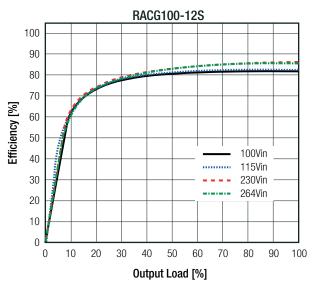
Specifications (measured at Ta= 25°C, nominal input voltage (115/230VAC), full load and after warm-up)

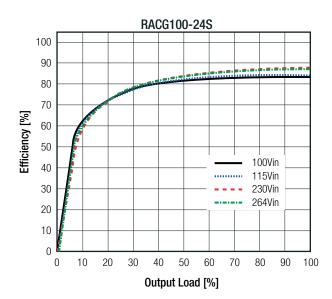
BASIC CHARACTERISTICS						
Parameter		Condition	Min.	Тур.	Max.	
Output Voltage Adjustability				±10%		
	0°C to +60°C	all		150mVp-p		
Output Ripple and Noise (4)	0000 +- 000	5, 12, 24Vout		150mVp-p		
	-20°C to 0°C	48Vout		200mVp-p		

Notes:

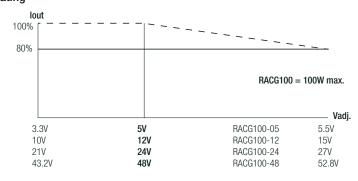
Note3: The products were submitted for safety files at AC-Input operation Note4: Measured @ 20MHz Bandwidth with a 0.1µF parallel capacitor

Efficiency vs. Load





Output Voltage Adjustability Derating



REGULATIONS			
Parameter	Condition	Value	
Output Accuracy	5Vout, 12Vout	±2.0% max.	
Output Accuracy	24Vout, 48Vout	±1.0% max.	
Line Regulation	low line to high line, full load	±0.5% max.	
Load Regulation	5Vout, 12Vout	2.0% max.	
	24Vout, 48Vout	1.0% max.	



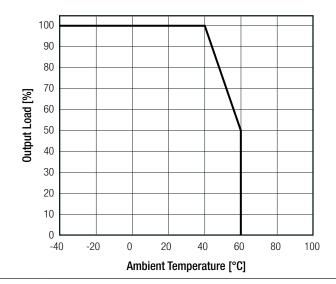
Series

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

PROTECTIONS					
Parameter	1	Туре	Value		
Input Fuse (5)	in	ternal	T5A, slow blow		
Short Circuit Protection (SCP)			continuous, hiccup and auto recovery		
Over Load Protection (OLP)			110% - 150% of rated output voltage, continuous, hiccup and auto recovery		
		I/P to O/P	3kVAC		
Isolation Voltage	tested for 1 minute	I/P to case	1.5kVAC		
		O/P to case	500VAC		
Isolation Resistance			100M Ω min.		
Leakage Current	I/P	to O/P	0.25mA max.		
Leakage Guiteiit	I/P to case		3.5mA max.		
	Notes:				
	Note5: Refer to local	safety regulations if inpu	t over-current protection is also required		

ENVIRONMENTAL					
Parameter	Condition				
Operating Temperature Penge	full load	-20°C to +40°C			
Operating Temperature Range	refer to derating gra	-20°C to +60°C			
Temperature Coefficient			0.03%/K		
Moisture Protection			conformally coated PCB		
Operating Altitude			5000m		
Operating Humidity	non-condensing		20% - 90% RH max.		
MTBF	according to MIL-HDBK-217F, G.B.	+25°C	200 x 10 ³ hours		





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		
Information reclinology Equipment, deficial nequirements for Safety	L190003	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		
continued on next page				

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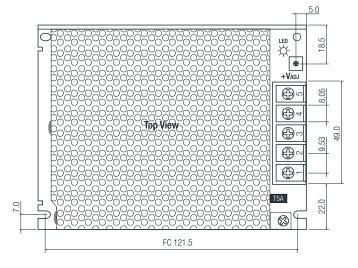
Series

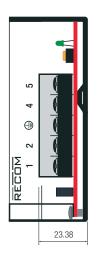
Specifications (measured at Ta= 25°C, nom. Vin (115/230VAC), full load and after warm-up)

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
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN61000-3-2:2014
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013

DIMENSION AND PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
Material	case	aluminium		
Dimension (LxWxH)		129.0 x 98.0 x 38.0mm		
Weight		432g typ.		

Dimension Drawing (mm)







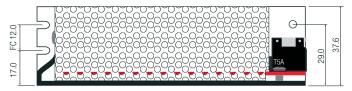
Pin Connections

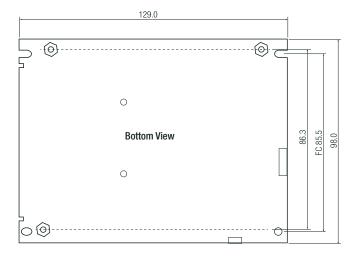
Pin #	Single	
_ 1	VAC in (L)	
2	VAC in (N)	
3	GND	
4	-Vout	
5	+Vout	
EO (: :	t	

FC: fixing center

Tolerance: $xx.x=\pm 0.5$ mm $xx.xx=\pm 0.35$ mm

Wire diameter: 0.75 to 3.0mm²







Series

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

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard box	138.0 x 100.0 x 45.0mm		
Packaging Quantity		1pcs		
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.

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