NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 30™ OCT 2020)

Features

- Class II power supply
- Universal input voltage range
- Compact 4" x 2" size

The RAC60/OF series offers compact AC/DC open frame power supplies with universal AC input

(90-264VAC) and fully protected DC outputs which are trimmable to compensate for voltage drops on the output connections. The power supplies are UL, and CE certified and ErP conform. Uses include

Regulated Converter

Description

- 3kVAC Isolation
- OCP, OVP, SCP

industry controls, test and measurement systems and energy efficient products.

• Standby power ErP conform (<0.5W)

RAC60/OF

RECO

AC/DC Converter

60 Watt **Single** Output, **Open Frame**



Selection Guide Input Output Output Voltage Adj. **Output** Efficiency Max. Cap. Part Number Voltage Range Current Range Range typ. (1) Load (2) **Voltage** Power [VAC] (VDC) [VDC] [W] [%] [µF] [A] RAC60-05S/0F 90-264 0 - 104.8-5.2 50 80 18800 5 12 11.4-12.6 60 RAC60-12S/0F 90-264 0-5 83 18800 RAC60-15S/0F 90-264 14.2-16 60 84 12700 0 - 415 RAC60-24S/0F 90-264 0-2.5 24 23-25 60 4700

Notes:

Note1: Efficiency is tested at nominal input and full load at +25°C ambient Note2: Max Cap Load is tested at nominal input and full resisitive load









CAN/CSA-C22.2 No. 60950-1 certified UL no. 60950-1 certified IEC/EN60950-1 certified EN55032 compliant EN55024 compliant

Model Numbering



Ordering Examples:

RAC60-12S/OF 12Vout Single Output Open Frame RAC60-24S/OF 24Vout Single Output Open Frame

Specifications (measured @ Ta= 25°C, nom. Vin)

Parameter	Co	ndition	Min.	Тур.	Max.
Innut Valtage Dange (3.4)	nom. Vi	in = 230VDC	90VAC		264VAC
Input Voltage Range (3,4)			127VDC		370VDC
Innut Current	1	15VAC			1.5A
Input Current	2	30VAC			1A
	cold start	115VAC		30A	
Inrush Current	at 25°C	230VAC		60A	
No load Power Consumption	·				0.5W
Input Frequency Range	AC Input		47Hz		63Hz
Start-up Time	115VAC/230VAC			500ms	

PREFERRED ALTERNATIVES Please consider these alternatives:

RACM60-K/OF Series

REV: 8/2020 PA-1 www.recom-power.com



RAC60/OF

Series

Specifications (measured @ Ta= 25°C, nom. Vin = 230VAC)

BASIC CHARACTERISTICS					
Parameter	Conc	dition	Min.	Тур.	Max.
Rise Time					30ms
Hold-up Time		5VAC DVAC		13ms 60ms	
Internal Operating Frequency				65kHz	
Output Ripple and Noise ⁽⁵⁾	20MHz BW	5VDC 12VDC 15VDC 24VDC			80mVp-p 120mVp-p 150mVp-p 200mVp-p
No	te3: The products were submitt te4: Refer to "Line Derating" te5: Measurements are made v	•			

REGULATIONS				
Condition	Value			
5, 12, 15VDC	±2.0% max.			
24VDC	±1.0% max.			
Note6: Includes Line-, Load Regulation and Set-up Tolerance				
-	5, 12, 15VDC 24VDC			

		Hiccup mode, automatic restart
	5VDC	5.75-6.5VDC
	12VDC	13.5-15.0VDC
re-power on to recover	15VDC	latch mode 16.9-18.75VDC
	24VDC	27.0-30.0VDC
rated output power		115% - 150%, Hiccup mode, automatic restart
	I/P to O/P	3.0kVAC
tested for 1 minute	I/P to FG	1.5kVAC
	O/P to FG	0.5kVAC
500VDC		100ΜΩ
240VAC		0.75mA max.
	tested for 1 minute 500VDC	re-power on to recover 12VDC 15VDC 24VDC rated output power tested for 1 minute I/P to O/P 1/P to FG O/P to FG 500VDC

ENVIRONMENTAL				
Parameter Condition				
Oneretine Temperature Dense	@ natural convention 0.1 m/s	full load	-20°C to +50°C	
Operating Temperature Range	@ natural convection 0.1m/s	refer to derating graph	-20°C to +70°C	
Operating Humidity	non-con	non-condensing		
continued on next page				

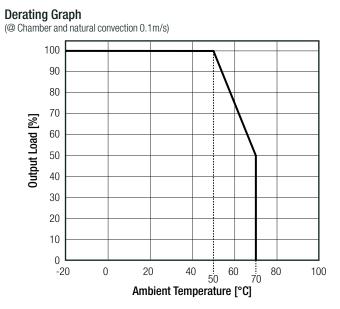


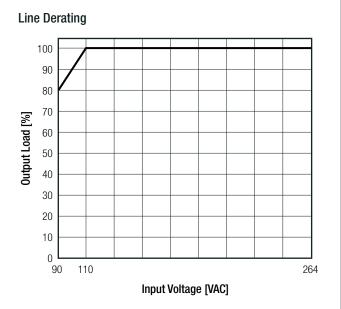
RAC60/OF

Series

Specifications (measured @ Ta= 25°C, nom. Vin = 230VAC)

ENVIRONMENTAL				
Parameter	Condition		Value	
Vibration			10-500Hz, 2G, 10 Min. along X, Y and Z	
MTBF	according to MIL-HDBK-217F, G.B.	+25°C	>450 x 10 ³ hours	





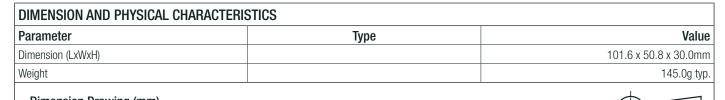
Certificate Type (Safety)	Report / File Number	Standard
	E196683	CAN/CSA-C22.2 No. 60950-1 UL No. 60950-1
Information Technology Equipment, General Requirements for Safety	11037315 001	EN60950-1:2006 + A2:2013 IEC60950-1:2005 2nd Edition + A2:2013
EAC Safety of Low Voltage Equipment	RU-AT.49.09571	TP TC 004/2011
RoHS2		RoHS-2011/65/EU + AM-2015/863
EMC Compliance (8)	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032; Class E
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024
ESD Electrostatic Discharge Immunity Test	air ± 2.0 , 4.0 , 8.0 kV contact ± 2.0 , 4.0 kV	IEC61000-4-2:2008; Criteria A
Radiated, Radio-Frequency, Electromagnetic Field Immunity Test	3V/m	IEC61000-4-3:2006 + A2:2010; Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1.0kV	IEC61000-4-4:2012; Criteria A
Surge Immunity	AC Power Port: L-N ±0.5, 1.0kV L-PE, N-PE ±0.5, 1, 2.0kV	IEC61000-4-5:2014; Criteria A
Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields	AC Power Port 3.0V	IEC61000-4-6:2013; Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	IEC61000-4-8:2009; Criteria A
Voltage Dips and Interruption	Voltage Dips > 95% Voltage Dips > 30% Voltage Interruptions > 95%	IEC61000-4-11:2004; Criteria A IEC61000-4-11:2004; Criteria E IEC61000-4-11:2004; Criteria E
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Class A
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
Limitations on the amount of electromagnetic interference allowed from digital and electronic devices		47 CFR FCC Part 15 Subpart B 2010-01-07, Class E

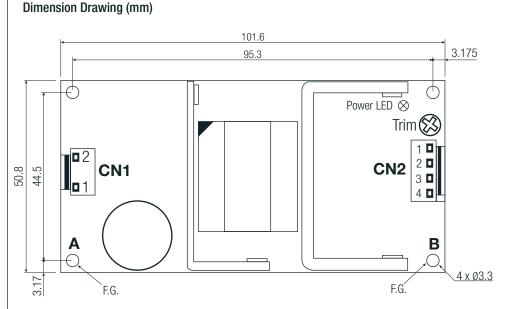


RAC60/OF

Series

Specifications (measured @ Ta= 25°C, nom. Vin = 230VAC)





30.0

AC Input Connector (CN1)

Pin#	Terminal	Mating Housing
1 AC/N	WST I39606PS-2	WST P3-I39606
2 AC/L	or equivalent	or equivalent

DC Output Connector (CN2)

Pin#	Terminal	Mating Housing
1,2 V+	WST I39606PS-2	WST P4-I39606
3,4 V-	or equivalent	or equivalent

Detail information about the connectors on www.wst.com.tw

Notes:

Note9: Mounting holes A,B must be grounded for EMI (Filter Ground)

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	carton	325.0 x 270.0 x 220.0mm		
Packaging Quantity		30pcs		
Storage Temperature Range		-40°C to +80°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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