

Features

Regulated Converter

- Universal input 90-264VAC
- Efficiency 91%
- Short circuit and over voltage protected
- Active PFC function, PF>0.95
- Power indicator LED
- UL, CE marked (CB report)
- Conformal coated product
- RECOM connector set available



RAC150-G

150 Watt
4" x 2"



Open Frame or Enclosed Case



UL62368-1 certified
CAN/CSA C22.2 No. 62368-1-14 certified
UL60950 certified
CAN/CSA C22.2 N.60950-1-07 certified
IEC/EN60950-1 certified
EN55032/55024
FCC Part 15
CB Report

Description

The RAC150 series are cost-efficient 150 Watt AC/DC power supplies in a standard 2"x4" footprint with a universal input range of 90-264VAC for worldwide usage. They are built to deliver up to 125 Watt with natural air convection for use in tight, space-critical housings with low available airflow. UL and CE marks with CB-reports include the new 62368 safety standard as well as the usual 60950 safety standard. The RAC150 series offers tightly regulated 12V, 24V and 48VDC outputs with 3kVAC isolation and Class B EMC certifications and come with a three year warranty.

Selection Guide

Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	max. Output Current ⁽¹⁾ [mA]	Efficiency typ ⁽²⁾ [%]	Max. Capacitive Load ⁽³⁾ [µF]
RAC150-12SG ⁽⁴⁾	90-264	12	12500	91	2000
RAC150-24SG ⁽⁴⁾	90-264	24	6250	91	1000
RAC150-48SG ⁽⁴⁾	90-264	48	3125	91	500

Notes:

- Note1: With forced air cooling, refer to derating graph
 Note2: Typ. efficiency is tested @ 230VAC and full load
 Note3: Max. cap load is tested @ 90-264VAC and full resistive load

Model Numbering



Notes:

- Note4: add suffix "OF" for open frame version
 add suffix "ENC" for enclosed version

Ordering Examples:

RAC150-24SG/OF 24Vout Single open frame version
 RAC150-12SG/ENC 12Vout Single enclosed version

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

BASIC CHARACTERISTICS					
Parameter	Condition		Min.	Typ.	Max.
Output Power	with forced cooling	90-264VAC			150W
	natural convection	230VAC			125W
		115VAC			120W
	90-115VAC		refer to "Derating Graph"		
Internal Input Filter			Pi type		
Input Voltage Range			90VAC	230VAC	264VAC
Input Current					2A
Inrush Current	cold start at 25°C	115VAC			40A
		230VAC			60A

continued on next page

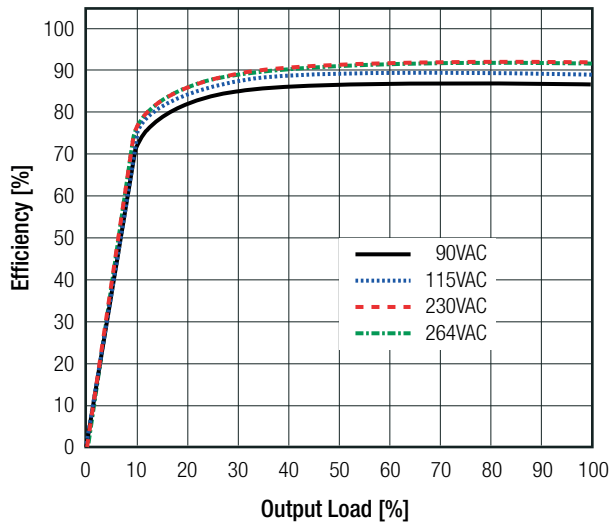
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

BASIC CHARACTERISTICS

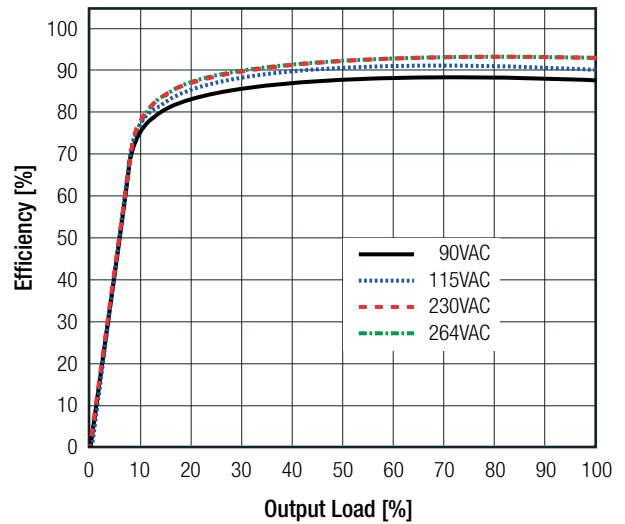
Parameter	Condition		Min.	Typ.	Max.
Input Frequency Range			47Hz		63Hz
Minimum Load			0%		
Power Factor	115VAC 230VAC		0.98 0.95		
Rise Time	115VAC/230VAC				50ms
Hold-up Time	115VAC 230VAC	100% load 50% load	6ms	20ms	
Internal Operating Frequency				132kHz	
Output Ripple and Noise	+70°C	12Vout 24Vout 48Vout			150mVp-p 240mVp-p 360mVp-p
	-30°C	12Vout 24Vout 48Vout			300mVp-p 480mVp-p 720mVp-p

Efficiency vs. Load

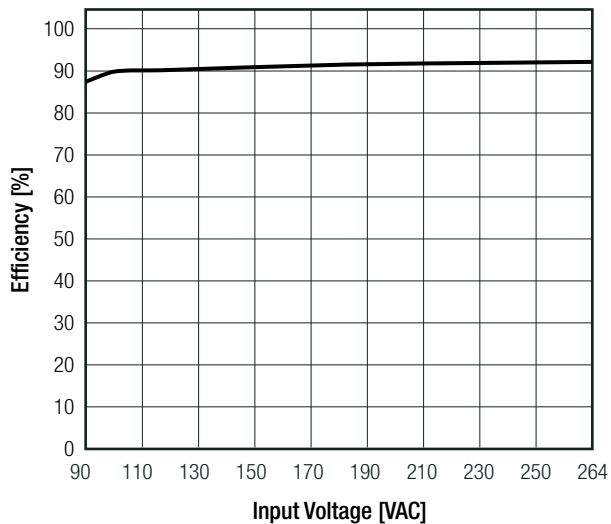
RAC150-12SG



RAC150-24SG



Efficiency vs. Input Voltage (@ full load)



Recommended Line Derating <115VAC

