

Features

DIN Rail Series

- Universal AC input (85-264VAC)
- Protections: SCP, OVP, OLP, OTP
- DC OK indicator LED with relay contacts
- 150% (360W) peak load capacity
- Built-in active PFC, PF>0.95
- High efficiency up to 94%

RECOM
AC/DC Converter

REDIN240

**240 Watt
DIN-Rail
Power Supply**



Description

These DIN-rail mounted power supplies have a robust case, 4mm screw terminal connectors and use high reliability components to give a long, trouble-free life. The REDIN240 can be end mounted to save rail space or side mounted for use in low-profile cabinets. The units can deliver up to 150% start-up power and allow n+1 parallel operation to increase the continuous output current or for supply redundancy. Relay contacts simplify DC OK monitoring. The REDIN240 series is designed for demanding commercial and industrial applications with UL508, UL60950, IEC60950 CB report and CE (LVD + EMC + RoHS) certifications. They come with a full 5-year warranty.

Selection Guide

Part Number	nom. Input Voltage Range [VAC]	Output Voltage [VDC]	Output Adjustability [VDC]	Rated Current [A]	Efficiency typ. [%]
REDIN240-24	100-240	24	24-28	10	94.35
REDIN240-48	100-240	48	48-56	5	93.7

Specifications (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

BASIC CHARACTERISTICS					
Parameter	Condition		Min.	Typ.	Max.
Input Voltage Range			85VAC		264VAC
Absolute Maximum Input Voltage	max. 3 seconds				300VAC 375VDC
Input Current	full load, 115VAC full load, 230VAC			2.28A 1.13A	3.0A 1.5A
Inrush Current	cold start at 25°C, 115VAC cold start at 25°C, 230VAC			15A 32A	20A 40A
No Load Power Consumption	85-264VAC 230VAC			2.2W 1.8W	4W 3W
Input Frequency Range			47Hz		63Hz
Output Trim	24Vout 48Vout		24V 48V		28V 56V
Power Factor	115VAC 230VAC			0.99 0.95	
Start-up time	24Vout	115VAC 230VAC		1.48s 1.27s	3s
	48Vout	115VAC 230VAC		1.45s 1.25s	
Hold-up time	24Vout	230VAC	20ms	26.28ms	
	48Vout		20ms	24.74ms	
Rise time	24Vout	230VAC		16.62ms	100ms
	48Vout			26.27ms	
Ripple & Noise ⁽¹⁾	0 - 70°C -25°C	24Vout			240mVp-p 480mVp-p
	-25 - 70°C	48Vout			480mVp-p

Notes:

Note1: Measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 10µF parallel capacitor

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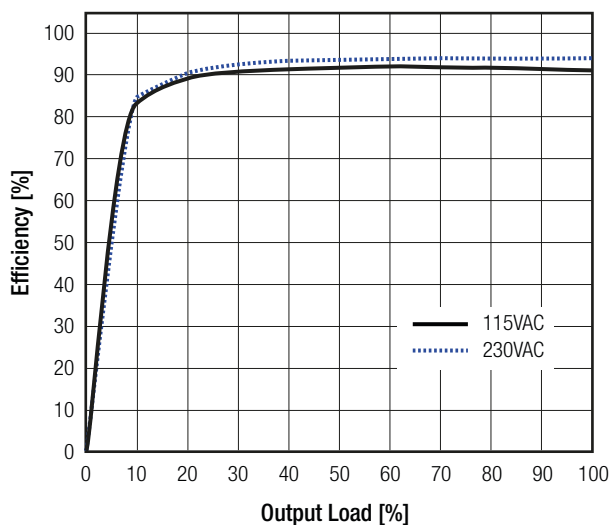


UL60950-1 certified
UL508 certified
IEC/EN60950-1 certified

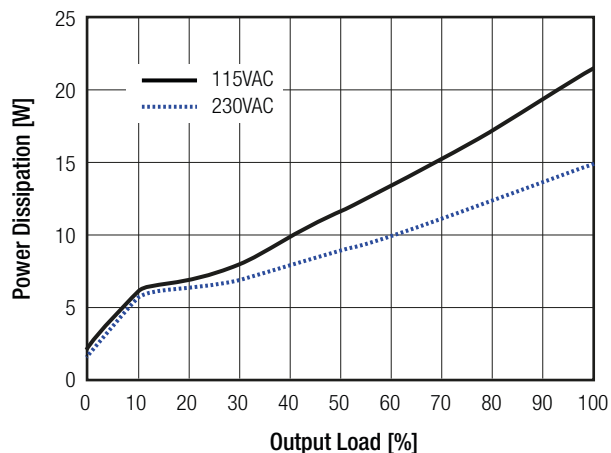
Specifications (measured @ $T_a = 25^\circ\text{C}$, rated V_{in} , rated load and after warm up)

REDIN240-24

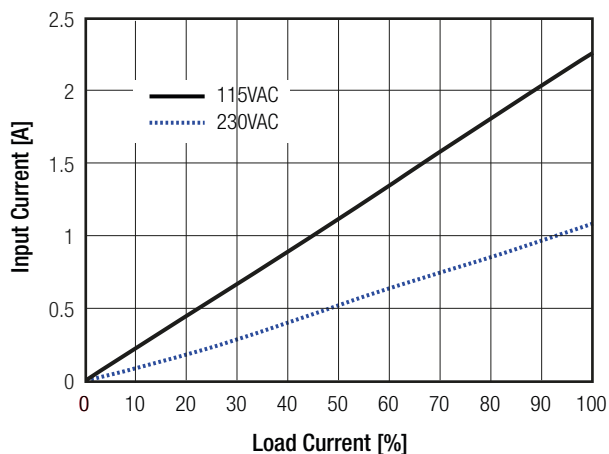
Efficiency vs. Load



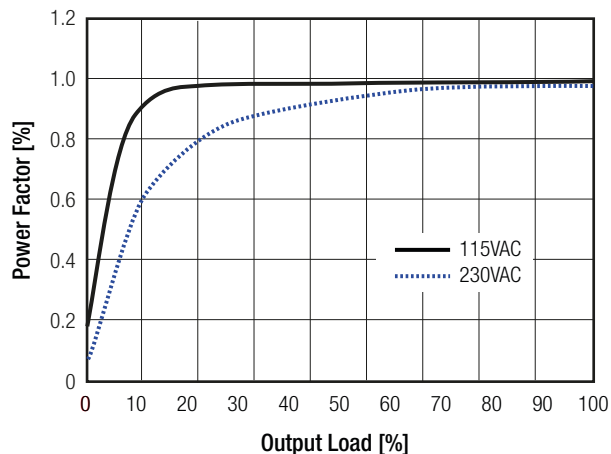
Power Dissipation vs Load



Input Current vs Load

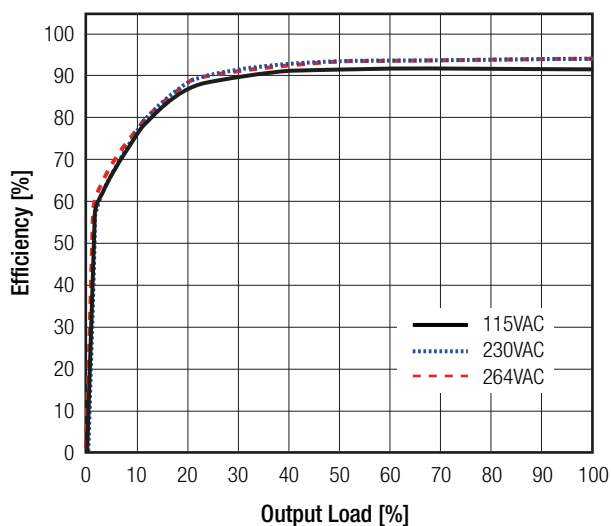


Power Factor vs Load over V_{in}



REDIN240-48

Efficiency vs. Load



Power Dissipation vs Load

