#### NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 30<sup>TH</sup> Oct 2020)

## **Features**

- Universal AC input (85-264VAC)
- Protections: SCP, OVP, OLP, OTP

150% (720W) peak load capacity

• DC OK indicator LED with relay contacts

## DIN Rail Series

- Built-in active PFC, PF>0.95
- High effciency up to 93.8%

#### 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 REDIN480 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 REDIN480 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. [%]	
REDIN480-24	100-240	24	24-28	20	93.8	
REDIN480-48	100-240	48	48-56	10	93.5	

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

BASIC CHARACTERISTICS						
Parameter	Condition		Min.	Тур.	Max.	
Input Voltage Range			85VAC		264VAC	
Absolute Maximum Input Voltage	max. 3s				300VAC	
Input Current	full load, 115VAC full load, 230VAC			4.59A 2.36A	7.0A 3.5A	
Inrush Current	cold start at 25°C, 115VAC cold start at 25°C, 230VAC			6.8A 13A	20A 40A	
No Load Power Consumption	85-264VAC 230VAC			3.85W 2.85W	5W 4W	
nput Frequency Range			47Hz		63Hz	
Power Factor	115VAC 230VAC			0.99 0.95		
	24Vout	115VAC 230VAC		1.6s 1.3s	3s	
Start-up time	48Vout	115VAC 230VAC		1.5s 1.3s	3s	
Hold-up time	24Vout	000\/A.0	20ms	21ms		
	48Vout	230VAC	20ms	22ms		
Dia a time	24Vout	230VAC		31ms	100ms	
Rise time	48Vout	ZOUVAU		49ms	100ms	
Ripple & Noise (1)	0 - 70°C -25°C	24Vout			240mVp- 480mVp-	
	-25 - 70°C	48Vout			480mVp-	

#### Notes:

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

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## **REDIN480**





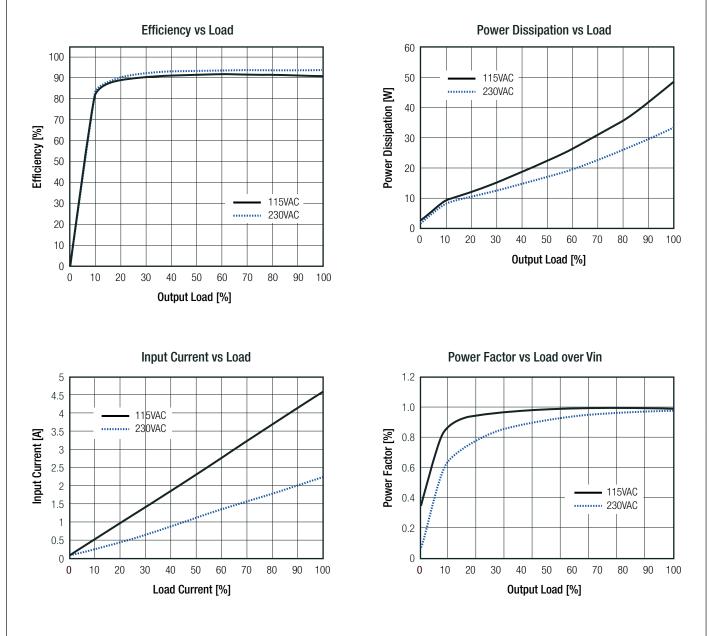


UL60950-1 certified UL508 certified IEC/EN60950-1 certified

# RECOM AC/DC Converter

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

#### REDIN480-24



REGULATION		
Parameter	Condition	Value
	24Vout	±0.6% typ. / ±3.0% max.
Output Accuracy	48Vout	$\pm 0.5\%$ typ. / $\pm 3.0\%$ max.
Line Regulation	24Vout, 48Vout	$\pm 0.1\%$ typ. / $\pm 0.5\%$ max.
Load Regulation	0% to 100% load	0.3% typ. / 1.0% max.
Transient Response	100Hz & 1kHz, 50% duty, 25% load step change	±2.0% typ. / ±5.0% max.

# REDIN480 Series

# RECOM AC/DC Converter

(LAST TIME BUY: 30<sup>™</sup> Oct 2020)

# REDIN480 Series

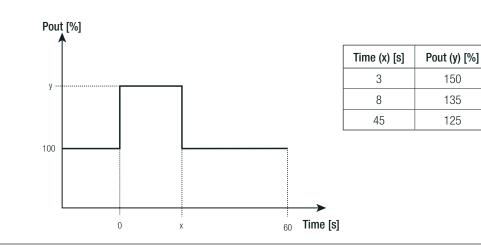
**Specifications** (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

Condi	tion	Value
		T10A, slow blow type
		Hiccup Mode
		29-33VDC, constant voltage auto recovery 58-63VDC, constant voltage auto recovery
		OVC II
		Limit the current by constant power circuit
		115±5°C , detect on Heat-sink of power transistor; shut down O/P, auto recovery after temperature goes down
tested for 1 minute	I/P to O/P I/P to PE O/P to PE	3.0KVAC / 15mA max. 2.5KVAC / 15mA max. 0.5kVAC / 20mA max.
		10MΩ min.
		reinforced
		0.25mA max. 3.5mA max.
OFF (I	red)	Vout up to 90% of rated Vout Vout down to 80% of rated Vout Max. 30V/1A or 60V/0.3 or 30VAC/0.3A Resitive Load
	tested for 1 minute	tested for 1 minute I/P to PE

Notes:

Note2: Refer to local wiring regulations if input over-current protection is also required

#### **Overload Capability**



ENVIRONMENTAL				
Parameter	Conditi	ion	Value	
Operating Temperature Dange	@ natural convection 0.1m/a	full load	-25°C to +50°C	
Operating Temperature Range	@ natural convection 0.1m/s	refer to derating graph	-25°C to +70°C	
Temperature Coefficient			0.03%/K	
Operating Humidity	non-conde	ensing	20% - 90% RH	
IP Rating			IP X0	
Pollution Degree (PD)			PD2	
Shock			10-500Hz 2G, 60min.	
Vibration			10G /11ms, along x,y and z axis	
MTBF	according to MIL-HDBk	(-217F G.B., 25°C	300 x 10 <sup>3</sup> hours	

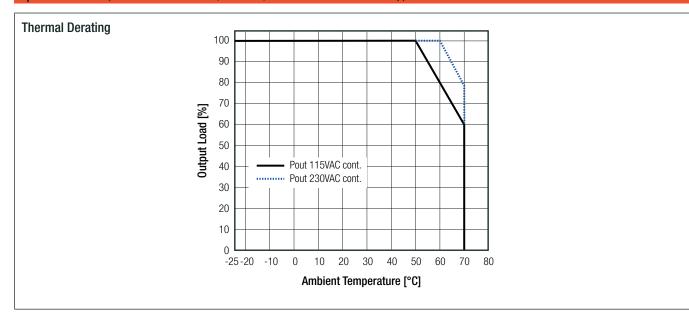
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# RECOM AC/DC Converter

(LAST TIME BUY: 30<sup>™</sup> Oct 2020)

# REDIN480 Series

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



SAFETY AND CERTIFICATIONS	Depart / Ella Numb	0
Certificate Type	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E224736 A52	UL60950-1, 2nd Edition, 2014 CSA C22.2 No. 60950-1-07, 2nd Edition, 2014
Industrial Control Equipment	E470721 Vol3 Sec1	UL508, 17th Edition, 2013 CSA C22.2 No. 107.1-01, 3rd Edition, 2011
Information Technology Equipment - General Requirments for Safety (CB Scheme)	16BAS06033 11	IEC60950-1, 2nd Edition:2005, +AM1:2009 + AM2:2013 EN60950-1:2006+ A11:2009 + A1:2010 + A12:2011 + A2:2013
EAC	RU-AT.37.02367	TP TC 004/2011
RoHs 2		RoHs 2011/65/EU
EMC Compliance	Report / Condition	Standard / Criterion
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement		EN55022:2010 + AC:2011, Class B
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010 + A1:2015
Limitations on the amount of electromagnetic intererence allowed from digital and electronic devices		47 CFR FCC Part 15, Subpart B, 2016
Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz		ANSI C63.4, 2014
ESD Electrostatic discharge immunity test	Air ±8kV, Contact ±4kV	EN61000-4-2, Criteria B
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1kV	EN61000-4-4, Criteria B
Surge Immunity	AC Power Port L-N ±1kV, L-PE + N-PE ±2kV	EN61000-4-5, Criteria B
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	EN61000-4-6, Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	EN61000-4-8, Criteria A
Voltage Dips and Interruptions	Voltage Dips >95% Voltage Dips 30% Voltage Interruptions >95%	EN61000-4-11, Criteria B EN61000-4-11, Criteria C EN61000-4-11, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Criteria A
Voltage Fluctuations & Flicker		EN61000-3-3:2013

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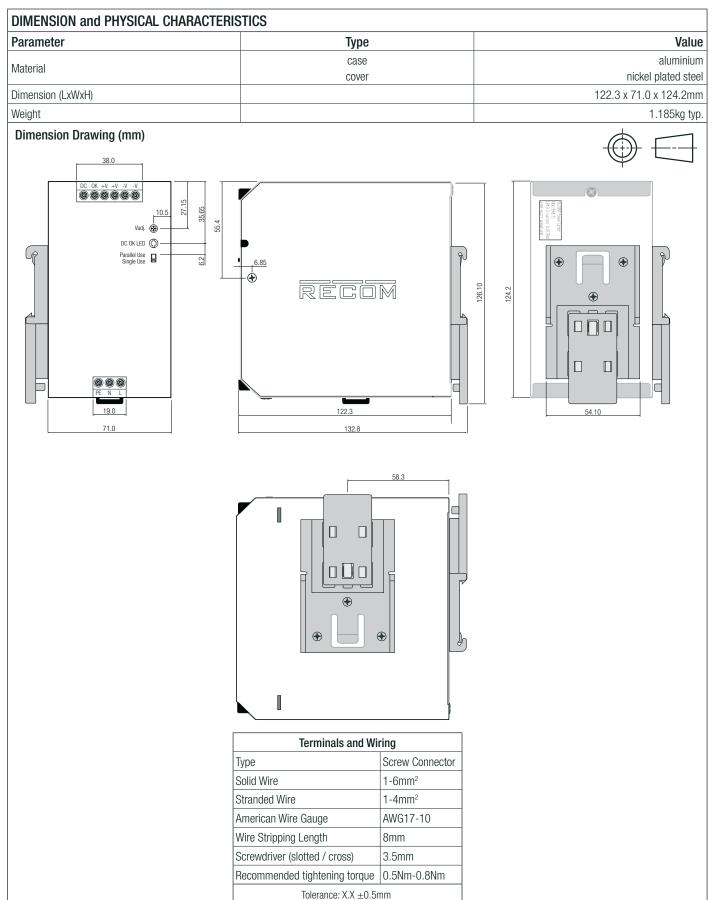
# RECOM AC/DC Converter

(LAST TIME BUY: 30<sup>TH</sup> Oct 2020)

# REDIN480

Series

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



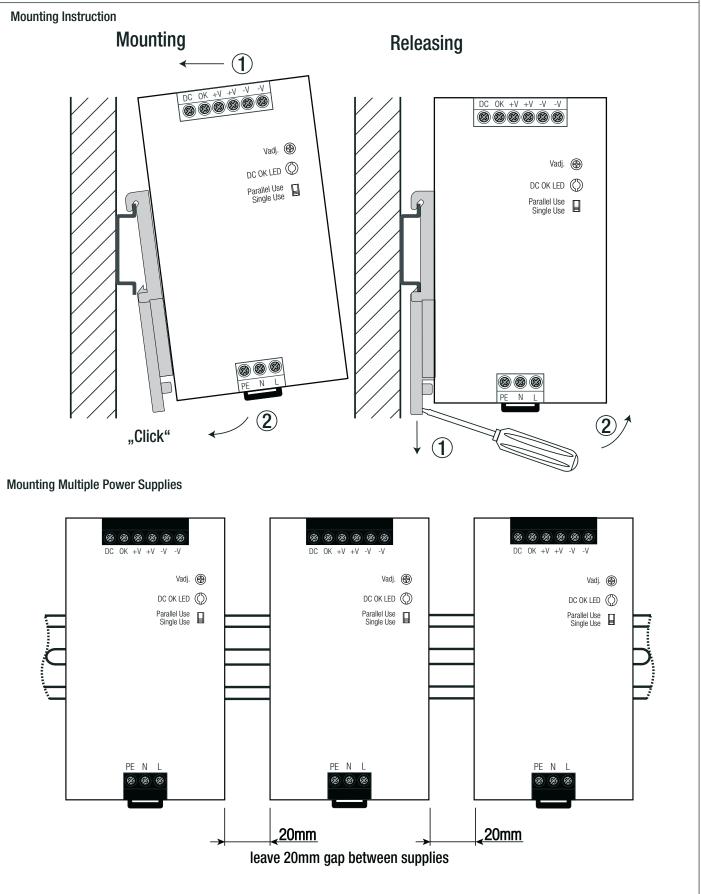
# RECOM AC/DC Converter

(LAST TIME BUY: 30<sup>TH</sup> Oct 2020)

# REDIN480 Series

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

#### INSTALLATION



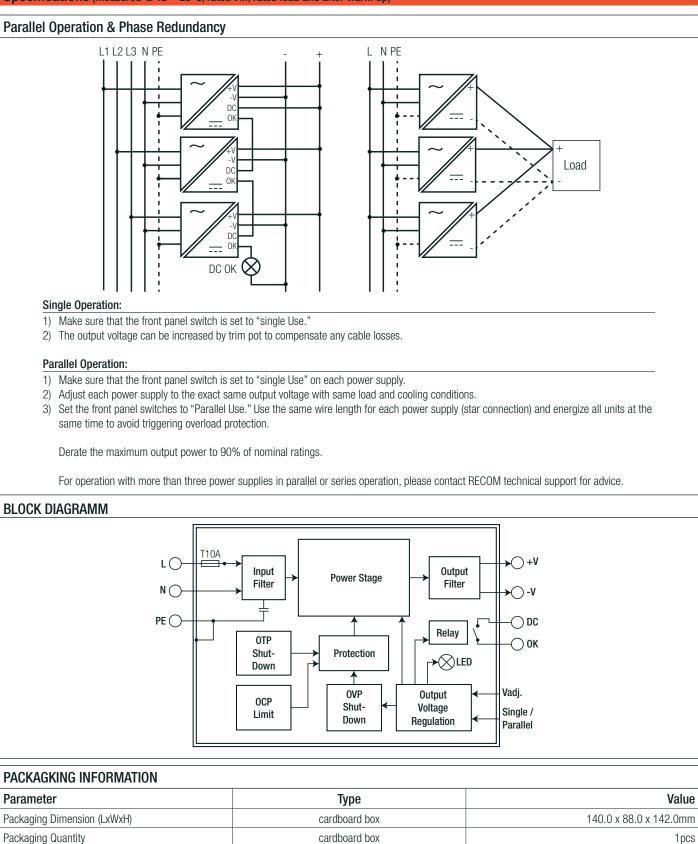
#### (LAST TIME BUY: 30<sup>TH</sup> Oct 2020)

**REDIN480** 

# RECOM AC/DC Converter

Series

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



Storage Temperature Range

Storage Humidity

-40°C to +85°C

5% - 95% RH

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