NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 30TH Oct 2020)

Features

- Universal AC input (85-264VAC)
- Long 7 year warranty
- Protections: SCP, OVP, OCP, OTP

DIN Rail Series

- 100% full load burn-in test
 DC OK indicator LED with relay contact
- DC OK indicator LED with relay contacts
- Cooling by free air convection, 5000m operation
- UL, CSA & CE certified with CB report

Description

This DIN-rail mounted power supply uses high reliability components to give a long, trouble-free life. The power supply can be end mounted to save space or side mounted for use in low-profile cabinets. Relay contacts simplify DC OK monitoring and the units can deliver 80W start-up power. The REDIN series is fully certified for industrial use and carries a 7-year warranty.

Selection Guide						
Part Number	Input Voltage Range [VAC]	Output Voltage [VDC]	Output Trimming Voltage [VDC]	Rated Current [A]	Efficiency typ. [%]	Max. Capacitive Load [µF]
REDIN60-12	85-264	12	12-15	5.0	85	18800
REDIN60-24	85-264	24	24-28	2.5	86	4700

Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)

	-15VDC (12V± -28VDC (24V±	,
		375VDC 5%) 5%) 1.8A 1.0A 40A 60A <1000mV
		5%) 1.8A 1.0A 40A 60A <1000mV
		1.0A 40A 60A <1000mV
		60A <1000mV
	500ms	1000ms
	20ms	
	20ms 50ms	
7Hz		63Hz
	65kHz	
	60mVp-p 75mVp-p	
140% for 5 seconds m		
		60mVp-p 75mVp-p

continued on next page



REDIN60







CB-Report UL60950-1 certified IEC/EN60950-1 certified CSA C22.2 No. 60950-1-07 certified UL508 certified CAN/CSA-C22.2 No. 107.1-01 certified EN55024 certified EN55032 certified

SEARCHING FOR ALTERNATIVES?

Contact RECOM

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

47µF parallel capacitor

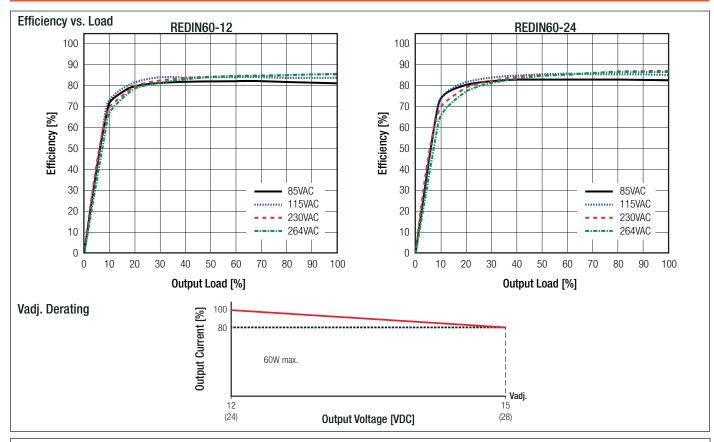
(LAST TIME BUY: 30TH Oct 2020)

Series

REDIN60

RECOM AC/DC Converter

Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)



REGULATION		
Parameter	Condition	Value
Line Regulation		±0.1% typ. / ±1% max.
Load Regulation		0.1% typ. / 1% max.
Transient Response (3)	REDIN60-12 (step load change: 2.5A - 5.0A) REDIN60-24 (step load change: 1.25A - 2.5A)	±5% typ. ±5% typ.
Dwell Time		100Hz & 1kHz 50% duty
Slew Rate		0.5A / µs
Net		

Notes:

Note3: Transient Response + E-CAP loading 3300µF. Other specs with resistive load only

PROTECTION				
Parameter	rameter Condition		Value	
Input Fuse			T2.5A, slow blow type	
Short Circuit Protection (SCP)			auto-recovery after fault condition, Hiccup Mode	
Over Voltage Protection (OVP)	REDIN60-12		18VDC max., shut-down latch-off o/p voltage, re-power on to recover	
	REDIN60-24		35VDC max., shut-down latch-off o/p voltage, re-power on to recover	
Over Voltage Category			OVCII	
Over Current Protection (OCP)			150% typ., auto-recovery after fault condition is removed	
Over Temperature Protection (OTP)	detect on ins	side ambient	105°C±5%, shut-down latch-off o/p voltage, re-power on to recover	
		I/P to O/P	3.75kVAC	
Isolation Voltage	tested for 1 minute	I/P to FG	1.88kVAC	
		O/P to FG	0.5kVAC	
Isolation Resistance	500VDC, 70% RH, I/P to O/P; I/P to FG; O/P to FG		100MΩ min.	
Leakage Current	240VAC		>1mA	
Power OK LED	Relay Contacts		1A, 30VDC / 120VAC	
	LED/Relay		ON if Vout = 11-16V (12V) / 22-30V (24V)	

RECOM AC/DC Converter

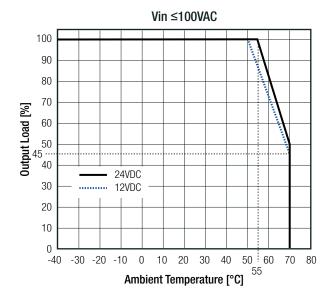
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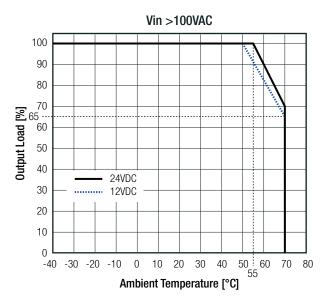
REDIN60 Series

Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)

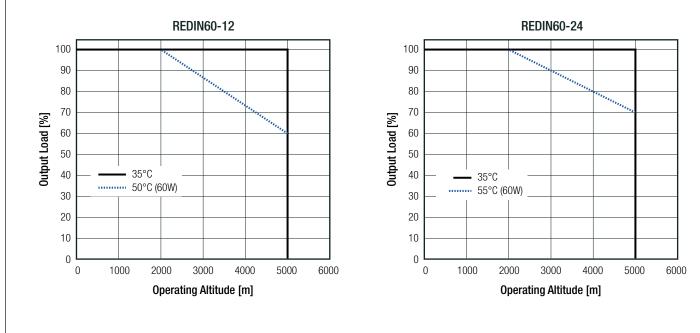
ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range	with derating	-20°C to +70°C (see graph)
Operating Humidity	non-condensing	20% - 90%RH
Vibration		10-500Hz 2G, 60min.
Shock	3 times each axis	10G / 11ms, along X, Y and Z axis
Altitude	see derating graph	5000m
MTBF (+25°C)	according to MIL-HDBK-217F, 115VAC, 60Hz, 75% load	200 x 10 ³ hours
Design Lifetime (+40°C)		87.6 x 10 ³ hours

Derating Graph





Typical Characteristics



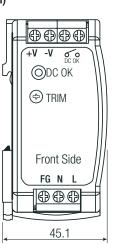
RECOM AC/DC Converter

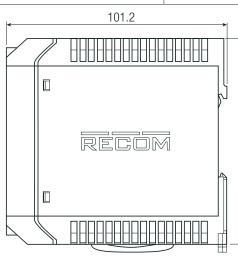
Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)

SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment - General Requirments for Safety	E224736-A23	UL60950-1 2nd Edition 2011 CAN/CSA-C22.2 No. 60950-1-07 2nd Edition 2011
Industrial Control Equipment	E470721	CAN/CSA-C22.2 No. 107.1-01, 3rd Edition 2011 UL508, 17th Edition 2013
Information Technology Equipment - General Requirments for Safety	E224736-A23	EN60950-1:2006 + A2:2013 IEC60950-1:2005 2nd Edition + A1:2009
EAC	RU-AT.37.02367	TP TC 004/2011
RoHS2		RoHs 2011/65/EU
EMC Compliance	Report / Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010 + A1:2015
ESD Electrostatic discharge immunity test	Air +/-2, 4, 8kV, Contact +/-2, 4kV	IEC61000-4-2:2008; Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	IEC61000-4-3:2006 + A1:2007 + 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, 2kV L-PE, N-PE +/-0.5, 1, 2, 4kV	IEC61000-4-5:2014; Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	IEC61000-4-6:2013; Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	IEC61000-4-8:2009; Criteria A
Voltage Dips and Interruptions	Voltage Dips >95% Voltage Dips 30% Voltage Interruptions > 95%	IEC61000-4-11:2004; Criteria A IEC61000-4-11:2004; Criteria A IEC61000-4-11:2004; Criteria B
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 intererence allowed from digital and electronic devices		47 CFR FCC Part 15 Subpart B 2010-01-07, Class B

DIMENSION and PHYSICAL CHARACTERISTICSParameterTypeValueMaterialcaseplastic, (UL94V-0)Dimension (WxHxD)45.1 x 92.0 x 101.2mmWeight332g

Dimension Drawing (mm)





92.0

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PDR-4

(LAST TIME BUY: 30TH Oct 2020)

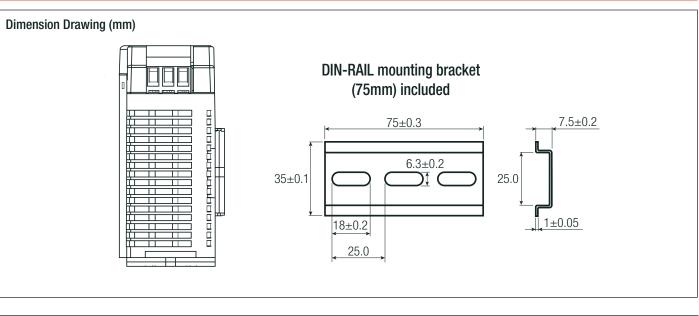
REDIN60 Series

RECOM AC/DC Converter

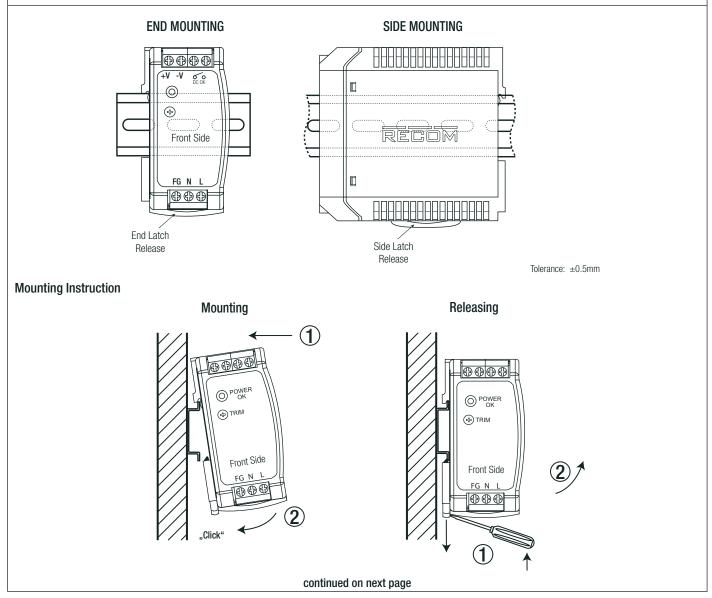
(LAST TIME BUY: 30TH Oct 2020)

REDIN60 Series

Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)







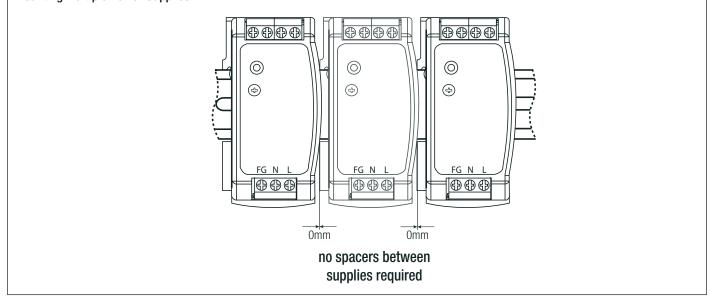


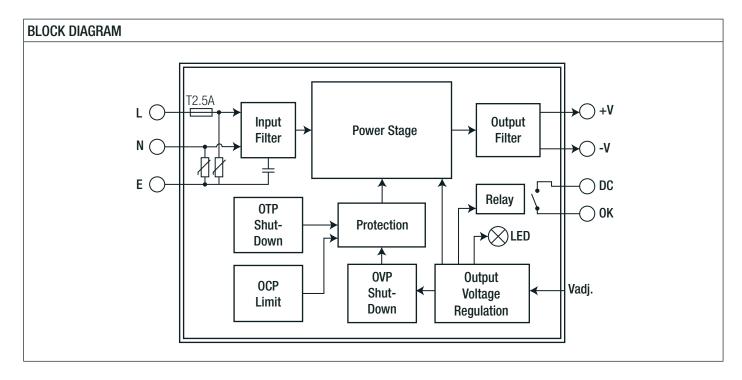
Specifications (measured at Ta= 25°C, 230VAC, full load and after warm up)



REDIN60 Series

Mounting Multiple Power Supplies





PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	cardboard box	116.0 x 97.0 x 54.0mm	
Packaging Quantity		1pcs	
Storage Temperature Range		-30°C to +85°C	
Storage Humidity		10% - 90% RH	

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.