Features

- Universal AC input (85-264VAC)
- Protections: SCP, OVP, OLP, OTP
- DC OK indicator LED with relay contacts

DIN Rail Series

• Built-in active PFC, PF>0,95

150% (180W) peak load capacity

• High effciency up to 92.5%

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 REDIN120 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 REDIN120 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	Output Voltage	Output Adjustability	Rated Current	Efficiency typ. 230VAC full load		
	[VAC]	[VDC]	[VDC]	[A]	[%]		
REDIN120-12	100-240	12	12-14	8.33	89.5		
REDIN120-24	100-240	24	24-28	5	91.5		
REDIN120-48	100-240	48	48-56	2.5	92.5		

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

Parameter	Condition		Min.	Тур.	Max.
Input Voltage Range			85VAC		264VAC
Absolute Maximum Input Voltage	max	3s			300VAC 375VDC
Input Current		115VAC, full load 230VAC, full load			1.5A 0.65A
Return Voltage Immunity	12Vout 24Vout 48Vout			18V 35V 65V	
Inrush Current	115VAC, cold start 230VAC, cold start			40A 60A	
No Load Power Consumption	115 230			1.5W 1.2W	3W 3W
Input Frequency Range			47Hz		63Hz
Output Voltage Trimming					+16.67%
Power Factor	115 230			0.99 0.95	
Start-up time	115VAC, full load 230VAC, full load				500ms 250ms
Hold-up time	115VAC, full load 230VAC, full load		20ms 20ms	40ms 40ms	
	0 - 70°C -25°C	12Vout			100mVp-p 200mVp-p
Ripple and Noise $^{(1)}$	0 - 70°C -25°C	24Vout			120mVp-p 240mVp-p
	-25°C - 70°C	48Vout			240mVp-p

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with a 0.1µF & 10µF parallel capacitor

RECOM AC/DC Converter

REDIN120







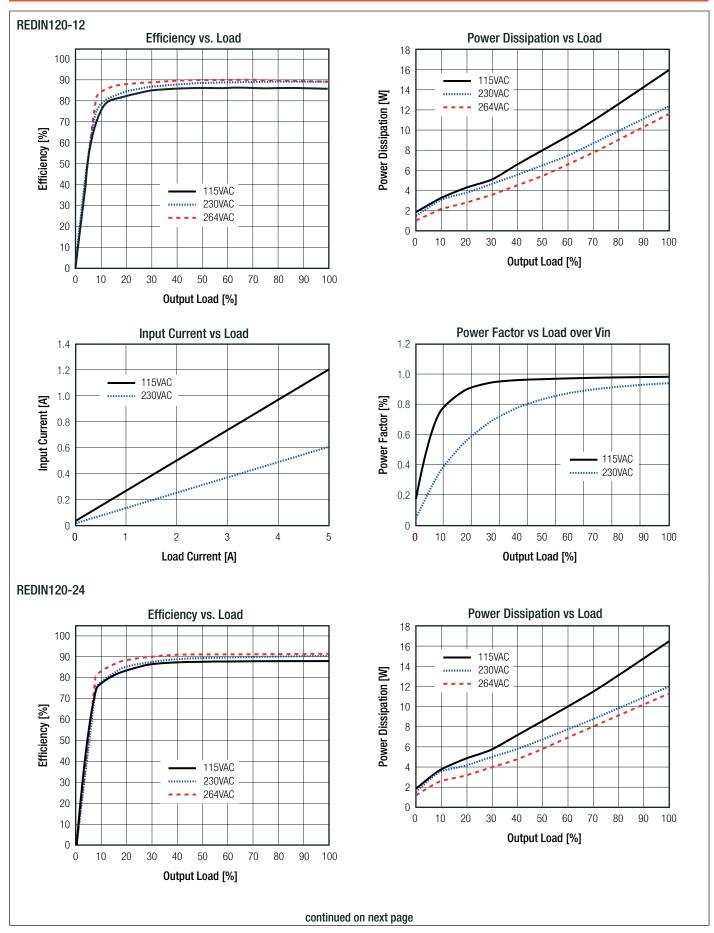
UL60950-1 certified UL508 certified IEC/EN60950-1 certified EN55024/32 compliant

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RECOM AC/DC Converter

REDIN120 Series

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



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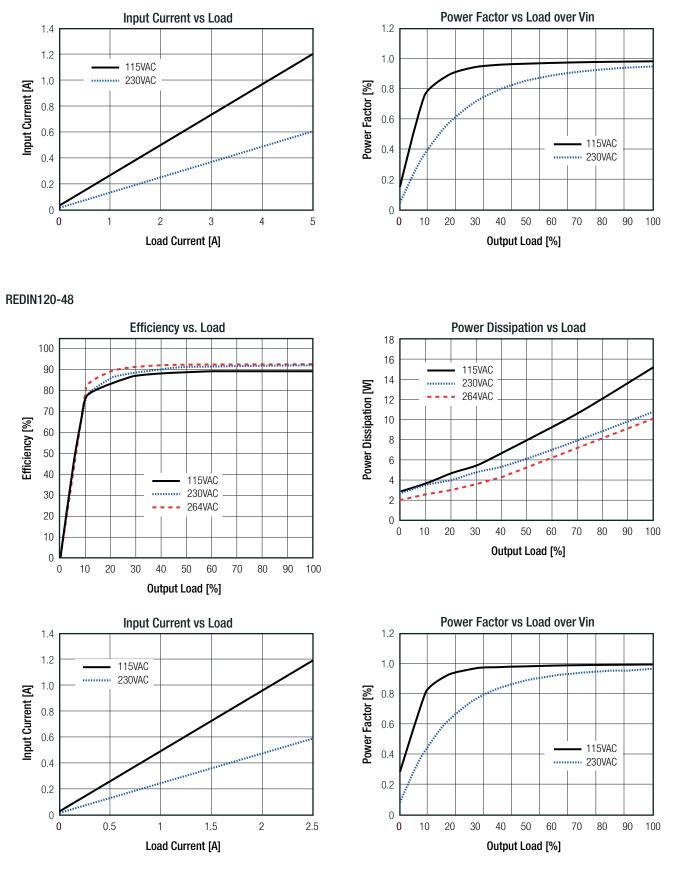
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RECOM AC/DC Converter

REDIN120 Series

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

REDIN120-24



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! NOT RECOMMENDED FOR NEW DESIGNS !

RECOM AC/DC Converter

REDIN120 Series

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

REGULATION								
Parameter Condition				on				Valu
Output Accuracy						±0.25% typ. / ±1% ma		
Line Regulation						±0.1% typ. / ±0.5% ma		
Load Regulation			0% to 100%	6 load		0.25% typ. / 1.0% ma:		
Transient Response			100Hz & 1kHz,	50% duty		±1% typ. / ± 5% ma		
PROTECTION								
Parameter			Condition			Value		
Input Fuse (2)			internal				T	5A, slow blow typ
Short Circuit Protection (SCP)							hiccup n	node (current lim
			12Vout				· · · · ·	VDC, hiccup mod
Over Voltage Protection (OVP)			24Vout				29-33	VDC, hiccup mod
			48Vout				58-65	VDC, hiccup mod
Over Voltage Category (OVC)								OVC
Over Load Protection (OLP)						Constant power (current limit)		
Over Temperature Protection (OTP)					$100\pm5^{\circ}$ C, detect on Heat-sink of power transistor; sh			
,				(O/P, auto recovery after temperature goes down Vout up to 90% of rated Vou			
Power OK LED		ON (green) OFF (red)					90% of rated Vo 80% of rated Vo	
Power OK LED		Relay Contact Rating		Max 30	V/1		.3A Resistive Loa	
			I/P to O/P	9	Widx. 50	3.0kVAC / 1minut		
Isolation Voltage		I/P to PE		2.5kVAC / 1 minute				
5		0/P to PE		0.5kVAC / 1minute				
Isolation Resistance						10MC		
Lookago Current		I/P to O/P 0.1mA			0.1mA t	yp. / 0.25mA ma		
Leakage Current		I/P to PE, 240VAC 50Hz 1			1.0mA ma			
Notes:								
Overload Capability Note2	2: Refer to lo	ocal safety	regulations if inpu	it over-curre	nt protection is also	o required		
Pout [%]			r	1				
Ť	Tim	e (x) [s]	Pout (y) [%]					
		1	180	N	laximum loadin	g of automa	tic circuit br	eakers
y		4	150	l l	Circuit Breaker	Circu	uit Breaker Cu	irrent
		7	140	. –	Тур	Single Use	Parallel Use	Parallel Use
		45	120			-	(2 devices)	(3 devices)
100					В	6A	6A	13A
100					С	10A	10A	16A
				1	Note: Values could	change depen	ding on local n	nains

ENVIRONMENTAL							
Parameter	Cond	lition	Value				
Operating Temperature Dange (3)	@ natural convection 0.1m/a	full load	-25°C to +55°C				
Operating Temperature Range (3)	@ natural convection 0.1m/s	refer to "Derating Graph"	-25°C to +70°C				
Temperature Coefficient			0.03%/K				
Operating Altitude (4)			3000m				
Operating Humidity	non-con	20% - 90% RH					

60 Time [s]

: 0

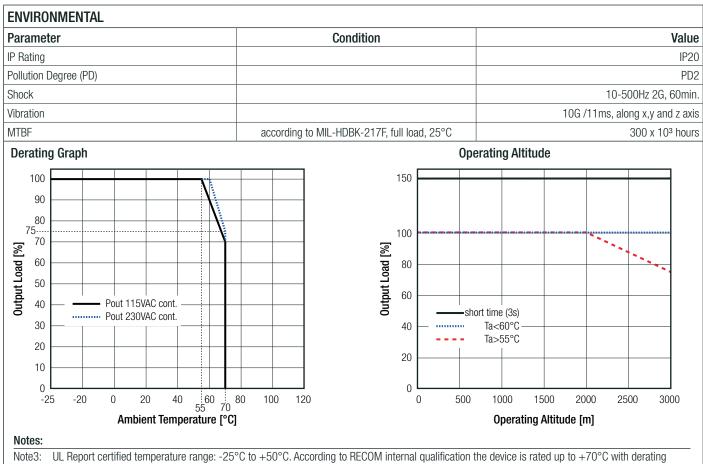
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REDIN120 Series

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



Note4: UL Report certified operating altitude: 5000m. According to RECOM internal qualification the device is rated up to 3000m.
For altitude higher than 2000m, derating 30W for every 1000m, or 5°C/1000m

SAFETY AND CERTIFICATIONS			
Certificate Type	Report / File Number		Standard
Information Technology Equipment, General Requirements for Safety	E224736	UL60950-1, 2nd Edition, 20 CSA C22.2 No. 60950-1-07, 2nd Edition, 20	
Industrial Control Equipment	E470721	UL508, 17th Edition, 2013 CSA C22.2 No. 107.1-01, 3rd Edition, 201	
Information Technology Equipment - General Requirements for Safety (CB)	SA1508106S 001 + 002	IEC6	0950-1, 2nd Edition 2005, + AM2:2013
Information Technology Equipment - General Requirements for Safety (LVD)			EN60950-1:2006, + A2:2013
EAC	RU-AT.37.02367	TP TC 004/201	
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
Limitations on the amount of electromagnetic interference allowed from digital and electronic devices			47 CFR FCC Part 15, Subpart B: 2014
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
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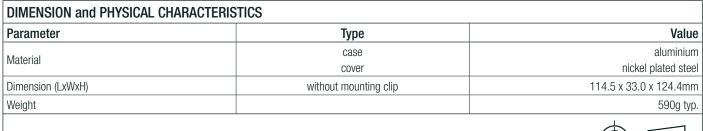
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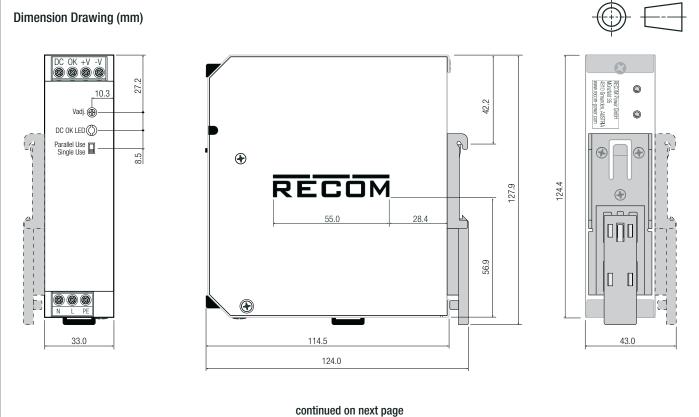
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REDIN120 Series

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

EMC Compliance	Report / Condition	Standard / Criterion
ESD Electrostatic discharge immunity test	Air ±8kV, Contact ±4kV	EN61000-4-2, 2009, Criteria B
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3, 2006, Criteria A
Fast Transient and Burst Immunity	AC Power Port: L+N+PE ±1kV	EN61000-4-4, 2012, Criteria A
Surge Immunity	AC Power Port L-N ±1kV, L-PE + N-PE ±2kV	EN61000-4-5, 2014, Criteria B
Immunity to conducted disturbances, induced by radio-frequency fields	AC Power Port 3V	EN61000-4-6, 2014, Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	EN61000-4-8, 2010, Criteria A
Voltage Dips and Interruptions	Voltage Dips >95%	EN61000-4-11, 2004, Criteria A
	Voltage Dips 30%	EN61000-4-11, 2004, Criteria A
	Voltage Interruptions >95%	EN61000-4-11, 2004, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2, 2014, Criteria A
Voltage Fluctuations & Flicker		EN61000-3-3, 2013, Clause 5





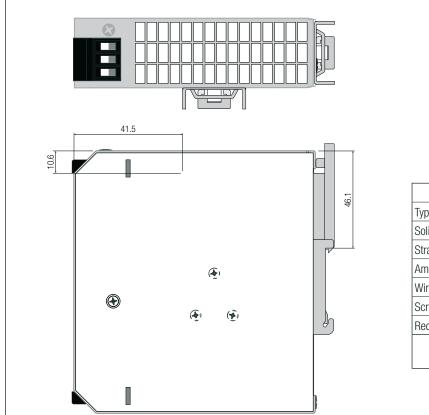
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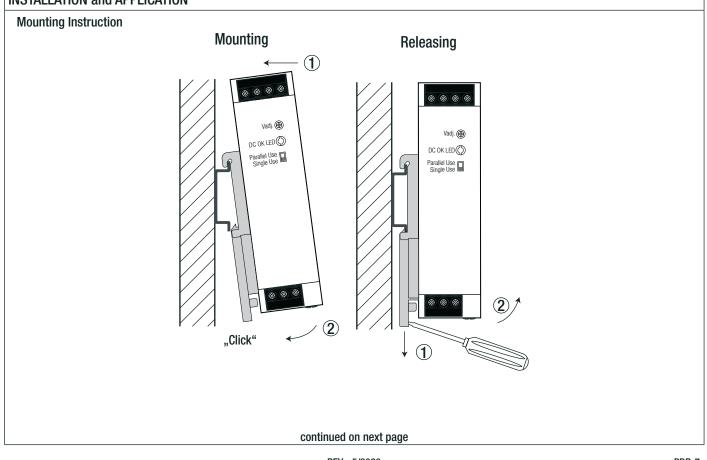
REDIN120 Series

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



Terminals and Wiring					
Туре	Screw Connector				
Solid Wire	2.5-6mm ²				
Stranded Wire	2.5-4mm ²				
American Wire Gauge (AWG)	AWG10-16				
Wire Stripping Length	8mm				
Screwdriver (slotted / cross)	3.5mm				
Recommended tightening torque	0.5Nm-0.8Nm				
Tolerance: X.X ±0.5mm X.XX ±0.25mm					

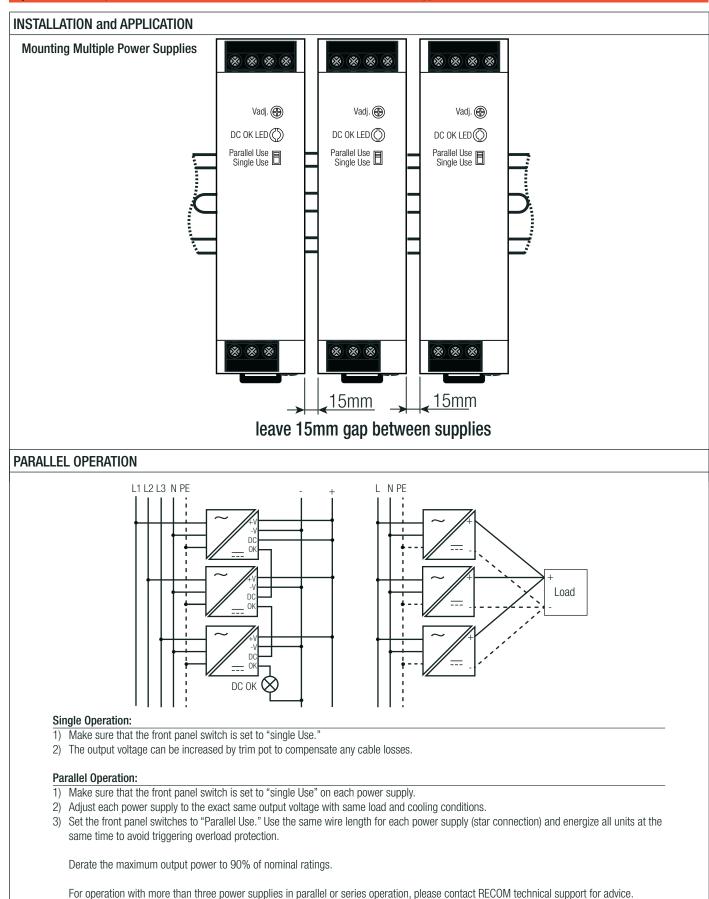
INSTALLATION and APPLICATION



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RECOM AC/DC Converter

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



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Series

REDIN120

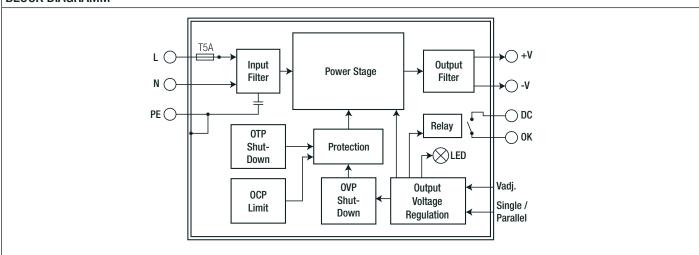
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REDIN120 Series

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





PACKAGKING INFORMATION						
Parameter	Туре	Value				
Packaging Dimension (LxWxH)	cardboard box	140.0 x 50.0 x 142.0mm				
Packaging Quantity	cardboard box	1pcs				
Storage Temperature Range		-40°C to +85°C				
Storage Humidity		5% - 95% 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.

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