NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 30TH 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 CHARACTERISTI | CS | | | | |
|-----------------------------------|--|------------------|-------|----------------|--------------------|
| 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 |
| Input 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 |
| | 24Vout | 000\/A.0 | 20ms | 21ms | |
| Hold-up time | 48Vout | 230VAC | 20ms | 22ms | |
| Rise time | 24Vout | 230VAC | | 31ms | 100ms |
| | 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 0.1μ F & 10μ F parallel capacitor

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REDIN480





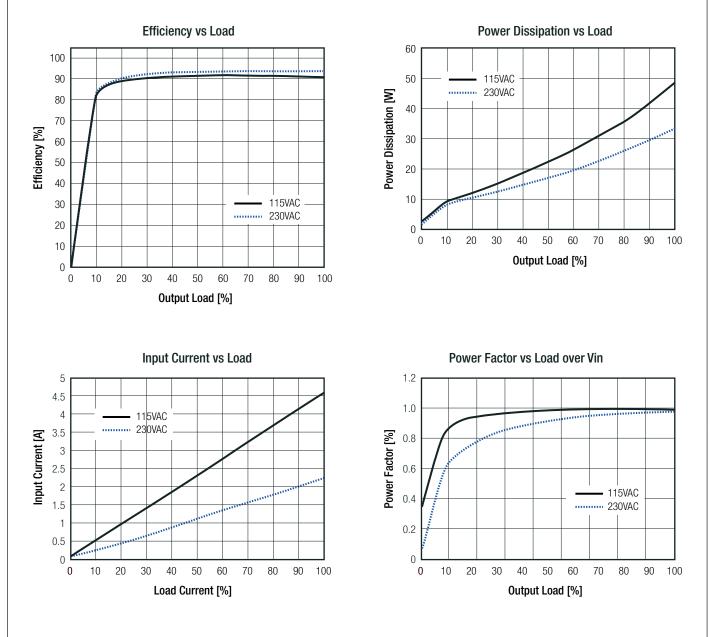


UL60950-1 certified UL508 certified IEC/EN60950-1 certified

RECOM AC/DC Converter

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

REDIN480-24



| REGULATION | | |
|--------------------|--|-------------------------------------|
| Parameter | Condition | Value |
| | 24Vout | $\pm 0.6\%$ typ. / $\pm 3.0\%$ max. |
| Output Accuracy | 48Vout | $\pm 0.5\%$ typ. / $\pm 3.0\%$ max. |
| Line Regulation | 24Vout, 48Vout | ±0.1% typ. / ±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[™] Oct 2020)

REDIN480 Series

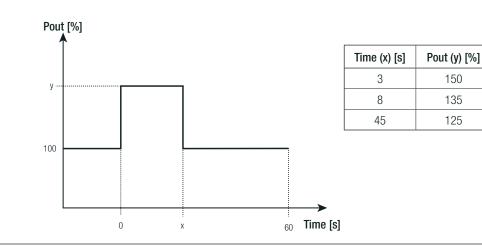
Specifications (measured @ Ta = 25°C, rated Vin, rated load and after warm up)

| 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 Range | @ natural convection 0.1m/s | full load | -25°C to +50°C | |
| | | 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 ³ hours | |

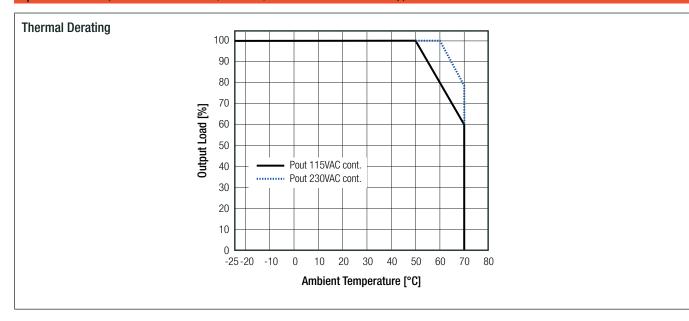
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RECOM AC/DC Converter

(LAST TIME BUY: 30[™] Oct 2020)

REDIN480 Series

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



| SAFETY AND CERTIFICATIONS | | |
|---|---|--|
| Certificate Type | Report / File Number | Standard |
| nformation Technology Equipment, General Requirements for Safety | E224736 A52 | UL60950-1, 2nd Edition, 2014 CSA C22.2 No. 60950-1-07, 2nd Edition, 2014 |
| ndustrial Control Equipment | E470721 Vol3 Sec1 | UL508, 17th Edition, 2013 CSA C22.2 No. 107.1-01, 3rd Edition, 2011 |
| nformation 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 |
| nformation technology equipment - Radio disturbance characteristics - imits and methods of measurement | | EN55022:2010 + AC:2011, Class B |
| nformation technology equipment - Immunity characteristics - Limits and methods of measurement | | EN55024:2010 + A1:2015 |
| imitations on the amount of electromagnetic intererence allowed from digital and electronic devices | | 47 CFR FCC Part 15, Subpart B, 2016 |
| Nethods 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 |
| mmunity 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 |
| imits of Harmonic Current Emissions | | EN61000-3-2:2014, Criteria A |
| Voltage Fluctuations & Flicker | | EN61000-3-3:2013 |

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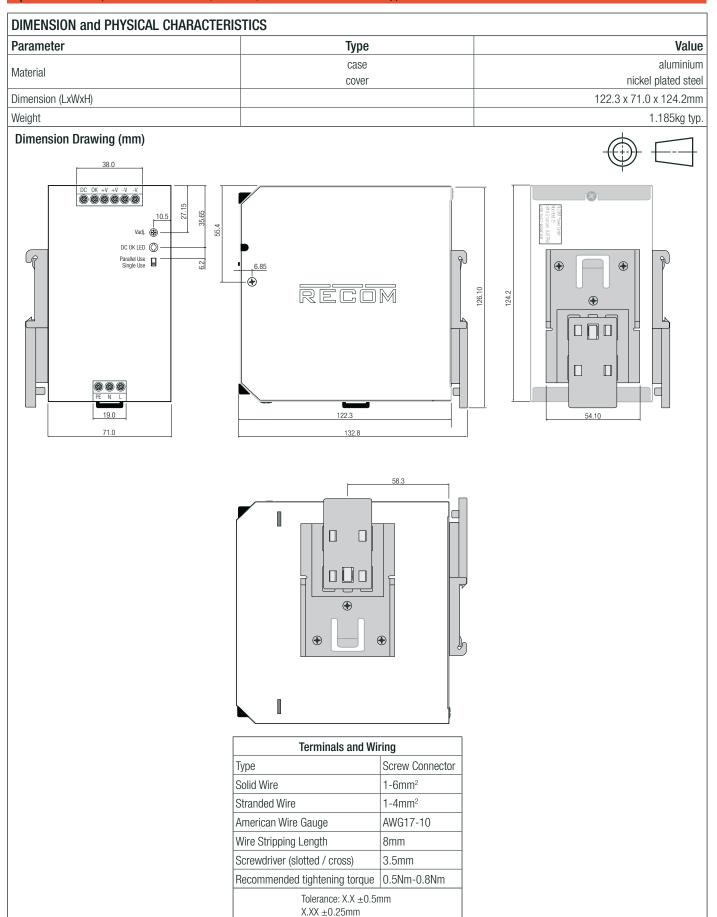
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REDIN480

Series

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



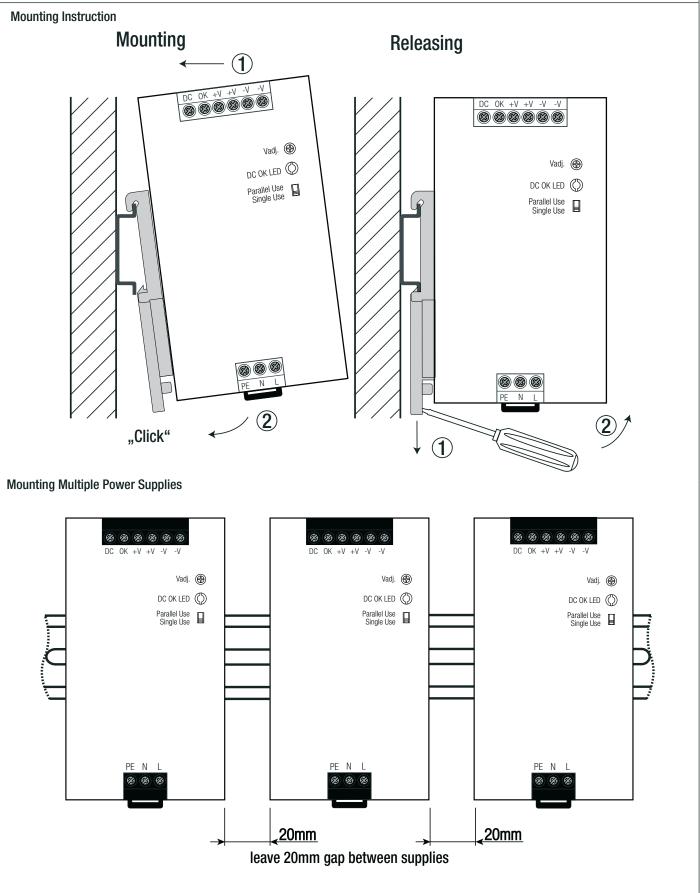
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INSTALLATION



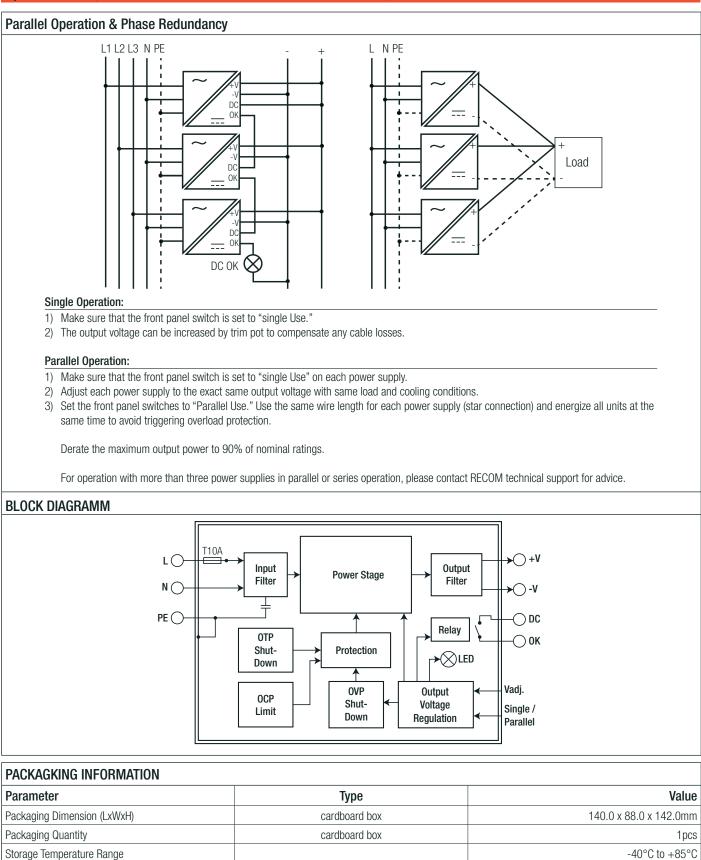
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REDIN480

RECOM AC/DC Converter

Series

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



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.

Storage Humidity

5% - 95% RH