



Ultra Slim DIN Rail Power Supply

DIN Rail Power Supplies

“Series 3” Ultra Slim models

240 Watts, 12V, 24V, 48V

Quality, Reliability & Flexibility



A system power solution. “Series 3” DIN Rail power supplies offer high quality performance and value. They are “parallel capable” to permit load sharing and increased reliability for industrial and critical system applications.



State of the art technology. “Series 3” Ultra Slim models offer up to a 50% reduction in width and provide superior performance. Switching technology and small compact high-frequency transformers achieve high DC regulation and stability in small lightweight packages.



Easy installation, safety and reliability. These supplies incorporate a rugged metal case and a standard DIN Rail mounting connector. DIN screw terminals are easily accessible and ensure a safe and reliable installation.

KEY FEATURES

- 150% of rated power for up to 4 sec ensures reliable startup of heavy loads.
- Automatic 85 – 264 VAC Input Voltage Range. No manual switching and no dead-zones between 130 – 180 VAC
- Input Filter
- Parallel Operation (with external diode)
- “DC OK” Visual Indicator LED and Output Contact.
- Output voltage adjustment
- Industrial Design and Construction in a Slim Compact Size with Rugged Metal Case
- High Efficiency (87 – 92%)
- Overload and Short Circuit Protection
- Low EMI meets EN55022, FCC15, EN55024
- UL508, UL60950, and CE Certification
- MTBF 200,000 Hrs; 2 Year Warranty

MODEL SELECTION GUIDE

Model	Output Voltage	Adjust Range	Current	Total Power
RDS240-12-1PH	12 V	12 – 15 V	15 – 12 Amps	180 Watts
RDS240-24-1PH	24 V	24 – 28 V	10 – 8.8 Amps	240 Watts
RDS240-48-1PH	48 V	48 – 56 V	5.0 – 4.3 Amps	240 Watts

Specifications

GENERAL

Note: Products are rated for industrial environments and are not to be used nor are warranted in aerospace, medical or lifesafety applications.


Input Voltage	85 – 264 VAC (Automatic select)	Damage Protection: - Overvoltage - Overcurrent - Short Circuit	Continuous Protection, and Automatic Recovery
Input Frequency	47 – 63 Hz	Reverse Volt Protection	<16 v to <63 v (1)
Input Current (1)	4.9 – 1.3Amp	Internal Fuse Protection	Yes
Inrush Current (1)	<15 – <30 Amp	Connectors	See Mechanical Chart
Efficiency (1)	85 – 88% typ	Weight	See Mechanical Chart
Ripple & Noise	< 100 mVp-p	Operating Temperature	-20 to +50 °C.
Output Peak Power (1)	150% of rated power for up to 4 sec max.	Storage Temperature	-25 to 85 °C
Tolerance, Line Load Regulation, Drift	< +/- 2%	Relative Humidity	5% to 90% RH, non-condensing
Hold-up Time	≥ 20 msec	Vibration and Shock	IEC68-2-6 and IEC68-2-27
Start-up Time	≤ 1 sec	EMI Standards	EN55022, FCC15, EN55024
Active Power Factor Correction	> .95 (Meets EN61000-3-2)	Safety Standard	UL508, UL60950, IEC60950 (TUV), CE

(1) Depends upon specific model selection, output voltage, and/or upon 120 or 240 VAC operation.

MECHANICAL

Models: RDS240-xx-1PH

Width	Length	Height	Weight
2.36" (60mm)	4.60" (113mm)	4.88" (124mm)	2.0 lbs (909g)

Connectors	Pins	Type	Wire Size
Input AC (3)	N, L, Ground	Screw Terminal	AWG 16 – 10
Output DC (4)	+, +, -, -	Screw Terminal	AWG 16 – 10
DC-OK (2)	(relay contacts) 	Screw Terminal	AWG 16 – 10

Note: "Length" excludes the 0.3125" (9mm) DIN Rail mounting bracket.
"Weight" is 'net', excluding packaging/shipping.

Reliability Power Locations	
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