



Ultra Slim DIN Rail Power Supply

DIN Rail Power Supplies

“Series 3” Ultra Slim models

80 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.
- Output voltage adjustment
- Industrial Design and Construction in a Slim Compact Size with Rugged Metal Case
- High Efficiency (87 – 91%)
- 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
RDS80-12-1PH	12 V	12 – 15 V	6.0 – 4.8 Amps	72 Watts
RDS80-24-1PH	24 V	24 – 28 V	3.4 – 2.9 Amps	80 Watts
RDS80-48-1PH	48 V	48 – 56 V	1.7 – 1.4 Amps	80 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)	3.0 – 1.0Amp	Internal Fuse Protection	Yes
Inrush Current (1)	<15 – <30 Amp	Connectors	See Mechanical Chart
Efficiency (1)	87 – 91% typ	Weight	See Mechanical Chart
Ripple & Noise	< 100 mVp-p	Operating Temperature	-20 to +60 °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 (2)	conforms to 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.

(2) 80 Watt unit conforms to EN61000-3-2 but does not use Power Factor Correction.

MECHANICAL

Models: RDS80-xx-1PH

Width	Length	Height	Weight
1.26" (32mm)	4.00" (102mm)	4.88" (124mm)	0.9 lbs (409g)

Connectors	Pins	Type	Wire Size
Input AC (3)	N, L, Ground	Screw Terminal	AWG 16 – 10
Output DC (4)	+, +, -, -	Screw Terminal	AWG 22 – 14

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

Reliability Power Locations	
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