

DRB Series

Single Output Industrial DIN Rail Power Supply

Overview

The DRB Series DIN Rail Power Supplies operate at 24–48V, depending on model—ideal for basic low-power applications. With industry-leading efficiency of up to 91%, the DRB Series supports the growing trend for simple, economic DIN power solutions for industrial, building automation and process control applications.

Housed in a robust plastic case, these power supplies feature a narrow design, saving space on the DIN rail. They operate from a universal input of 85 to 264V AC and have EN61000–3–2 compliance, enabling worldwide use. They can withstand a voltage of 300V AC surge for 5 seconds.



Key Features

- Universal AC input/wide range
- Compact size
- High efficiency up to 91%
- ErP-compliant design
- Low no load power draw
- Class 2 Models to UL1310
- Class 1 Div 2 for hazardous locations, suitable for TS-35/7.5 and TS-35/15 DIN rails

(1) For operation below -10°C, start up load is derated linearly to 50% load down to -20°C
** Safety certified for AC input only*
*** Cycle AC input voltage to reset*

Ordering Information

AT-DRB15-24-1

15W, 24V Output DIN Rail Mount Power Supply

AT-DRB50-48-1

50W, 48V Output DIN Rail Mount Power Supply

	DRB15	DRB50
Input voltage range	85 - 264VAC, 120 - 373VDC* (Withstands 300VAC for 5 seconds)	
Input frequency	47 - 63Hz	
Inrush current (typ) (cold start)	35A	50A
Power factor (110/230VAC) meets EN61000-3-2	0.55/0.42	0.6/0.5
Input current (110/230VAC)	0.27/0.17	0.9/0.55
Line and load regulation	240mV	480mV
Ripple and noise	20mV	40mV
Overcurrent protection	Hiccup with auto recovery	
Overvoltage protection	30 - 33.6V **	53.76 - 68.16V **
Hold up time (230VAC input)	> 20ms	> 20ms
Efficiency	87 / 90	90 / 91
No load power draw	<0.3W	<0.3W
LED indicator	Green LED indicates DC is OK	
Operating temperature (1)	-20 to +70°C	
Storage temperature	-40 to +85°C	
Operating humidity (non-condensing)	5 - 95%RH	
Parallel operation	Not available	
Series operation	Possible	
Cooling	Convection	
Withstand voltage (for 1 minute)	Input to Output 3kVAC, Input to GND 1.5kVAC, Output to GND 500VAC	
Isolation resistance	>100MΩ at 25°C, 70%RH & 500VDC	
Vibration (non-operating)	10-55Hz (sweep for 1 min); 19.6m/s2 (2G) Constant; X,Y,Z each 1 hour	

	DRB15	DRB50
Shock	294m/s (30G) 11ms half sine	
Safety agency certifications	UL508 Listed, UL60950-1, CSA22.2 No60950-1, EN60950-1, CE Mark	
Conducted and radiated EMI	EN55022-B radiated and conducted	
Immunity	EN61000-4-2 (lvl 4) , -3 (lvl 3), -4 (lvl 4) -5 (norm mode lvl 3, com mode lvl 4), -6 (lvl 3), -8 (lvl 4), -11 (class 3)	
Weight	85	175
Size (WxHxD)	18 x 75 x 90 mm	30 x 75 x 90 mm
Case material	Flame retardant polycarbonate (UL94 V-0)	



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