

# 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

	DRB15	DRB50
<b>Input Voltage range</b>	85 - 264VAC, 120 - 373VDC* (Withstands 300VAC for 5 seconds)	
<b>Input Frequency</b>	47 - 63Hz	
<b>Inrush Current (typ) (Cold Start)</b>	35A	50A
<b>"Power Factor (110/230VAC) Meets EN61000-3-2"</b>	0.55/0.42	0.6/0.5
<b>Input Current (110/230VAC)</b>	0.27/0.17	0.9/0.55
<b>Line &amp; Load Regulation</b>	240mV	480mV
<b>Ripple &amp; Noise</b>	20mV	40mV
<b>Overcurrent Protection</b>	Hiccup with auto recovery	
<b>Overvoltage Protection</b>	30 - 33.6V **	53.76 - 68.16V **
<b>Hold Up Time (230VAC input)</b>	> 20ms	> 20ms
<b>Efficiency</b>	87 / 90	90 / 91
<b>No Load Power Draw</b>	<0.3W	<0.3W
<b>LED Indicator</b>	Green LED indicates DC is OK	
<b>Operating Temperature (1)</b>	-20 to +70°C	
<b>Storage Temperature</b>	-40 to +85°C	
<b>Operating Humidity (non condensing)</b>	5 - 95%RH	
<b>Parallel Operation</b>	Not available	
<b>Series Operation</b>	Possible	
<b>Cooling</b>	Convection	
<b>Withstand Voltage (For 1 minute)</b>	Input to Output 3kVAC, Input to GND 1.5kVAC, Output to GND 500VAC	
<b>Isolation Resistance</b>	>100MΩ at 25°C, 70%RH & 500VDC	
<b>Vibration (Non operating)</b>	10-55Hz (sweep for 1 min); 19.6m/s <sup>2</sup> (2G) Constant; X,Y,Z each 1 hour	
<b>Shock</b>	294m/s (30G) 11ms half sine	
<b>Safety Agency Certifications</b>	UL508 Listed, UL60950-1, CSA22.2 No60950-1, EN60950-1, CE Mark	
<b>Conducted &amp; Radiated EMI</b>	EN55022-B Radiated & Conducted	
<b>Immunity</b>	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)	
<b>Weight</b>	85	175
<b>Size (WxHxD)</b>	18 x 75 x 90 mm 0.71 x 2.95 x 3.54 in	30 x 75 x 90 mm 1.18 x 2.95 x 3.54 in
<b>Case material</b>	Flame Retardant Polycarbonate (UL94 V-0)	

### 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

(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