

DIN RAIL POWER SUPPLIES

DR Series



DR-240-24V shown smaller than actual size.

- Universal AC Input (85 to 264 Vac)
- DC Compatible Input (120 to 370 Vdc)
- Protections: Short Circuit/ Overload/ Over Voltage/Over Temperature
- Cooling By Free Air Convection
- UL 508 (Industrial Control Equipment) Approved
- CE Marked
- LED Indicator for Power On
- 100% Full Load Burn-In Test
- Built-In EMI Filter and Low Ripple Noise

The DR series of power supplies provides a reliable DC power source for any industrial control system. These economical and reliable power supplies for industrial devices (PLCs, stepper drives, sensors, switches) are designed for use in harsh industrial environments. Combining rugged, compact enclosures, incorporating all international standards and approvals, and offering short-circuit, over-load, over-voltage, and over-temperature protection, the DR series makes your power supply choice a simple one. These high quality power supplies have passed a 100% full load burn-in test, and are UL/CUL listed, TUV/CB certified, and CE marked. Models are available with output ratings from 75 to 240 W, with 24 Vdc output. Customers can choose from a full range of input voltages (85 to 264 Vac and 120 to 370 Vdc compatible) making the DR series unbeatable.



DR-120-24V shown smaller than actual size.

SPECIFICATIONS

Nominal Output Voltage: 24V

Rated Output Current:

DR-75-24: 3.2 A

DR-120-24: 5.0 A

DR-240-24: 10.0 A

Rated Output Power:

DR-75-24: 76.8 W

DR-120-24: 120 W

DR-240-24: 240 W

Efficiency (Typical):

DR-75-24: 80%

DR-120-24, DR-240-24: 84%

Input Voltage Range:

DR-75-24, DR-240-24:

85 to 264 Vac (47 to 63 Hz) or

120 to 370 Vdc

DR-120-24: 88 to 132 Vac/

176 to 364 Vac (by switch)

(47 to 63 Hz) or 248 to 370 Vdc

Input Current (Typical):

DR-75-24: 1.6 A @ 115V,

0.96 A @ 230V

DR-120-24: 2.6 A @ 115V,

1.6 A @ 230V

DR-240-24: 2.8 A @ 115V,

1.4 A @ 230V

Inrush Current (Typical):

DR-75-24: 20 A @ 115 Vac,

40 A @ 230 Vac, cold start

DR-120-24: 20 A @ 115 Vac,

40 A @ 230 Vac, cold start

DR-240-24: 27 A @ 115 Vac,

45 A @ 230 Vac, cold start

Output Voltage Range: 24 to 28V

Ripple and Noise:

DR-75-24: 150 mV p-p

DR-120-24, DR-240-24: 80 mV p-p

Line Regulation: 0.5%

Load Regulation: 1.0%

Temperature Coefficient: 0.03%/°C
(0 to 50°C)

Over Load Protection: 105 to 150%
rated output power, constant current
limiting, auto recovery

Over Voltage Protection:

DR-75-24: 121 to 141% rated
output voltage

DR-120-24: 120 to 140% rated
output voltage

DR-240-24: 30 to 36V

Over Temp Protection:

DR-75-24: 85°C, ±5°C

DR-120-24: 90°C, ±5°C

DR-240-24: 100°C, ±5°C

Hold-Up Time (Typical):

DR-75-24: 60 ms/230 Vac, 12 ms/
115 Vac at full load

DR-120-24: 36 ms/230 Vac, 32 ms/
115 Vac at full load

DR-240-24: 24 ms/230 Vac, 24 ms/
115 Vac at full load



DR-240-24V shown
smaller than actual size.

Leakage Current:

DR-75-24: <1 mA @ 240 Vac

DR-120-24, DR-240-24: <3.5 mA @
240 Vac

Operating Temperature:

DR-75-24, DR-120-24: -10 to 60°C
(14 to 140°F)

DR-240-24: -10 to 70°C
(14 to 158°F)

Operating Humidity: 20 to 90% RH
(non-condensing)

Storage Temperature: -20 to 85°C
(-4 to 185°F)

Storage Humidity: 10 to 95% RH
(non-condensing)

Vibration: 10 to 500 Hz, 2G 10 min/
1 cycle, period for 60 min each along
X, Y, Z axes; mounting: compliance to
IEC60068-2-6

Safety:

DR-75-24: UL508, TUV EN60950-1
approved

DR-120-24, DR-240-24: UL508,
UL60950-1, TUV EN60950-1
approved

Withstand Voltage: I/P-O/P: 3K Vac,
I/P-FG: 1.5K Vac, O/P-FG: 0.5K Vac
(1 minute)

Isolation Resistance: I/P-O/P, I/P-FG,
O/P-FG: 100M Ω/500 Vdc

EMI: Compliance to EN55011, EN55022
(CISPR22) Class B

Harmonic Current: Compliance to
EN61000-3-2, -3

EMS Immunity: Compliance to
EN61000-4-2,3,4,5,6,8,11, ENV50204,
EN55024, EN61000-6-2 (EN50082-2),
heavy industry level, criteria A

Weight (Typical):

DR-75-24: 600 g (21.075 oz)

DR-120-24: 790 g (27.75 oz)

DR-240-24: 1200 g (42.33 oz)

Dimensions:

DR-75-24:
55.5 W x 125.2 H x 100 mm D
(2.185 x 4.93 x 3.94")

DR-120-24:
65.5 W x 125.2 H x 100 mm D
(2.58 x 4.93 x 3.94")

DR-240-24:
125.5 W x 125.2 H x 100 mm D
(4.94 x 4.93 x 3.94")

To Order

MODEL NO.	DESCRIPTION
DR-75-24V	DIN rail power supply, 24 Vdc, 3.125 A
DR-120-24V	DIN rail power supply, 24 Vdc, 5 A
DR-240-24V	DIN rail power supply, 24 Vdc, 10 A

Ordering Example: DR-75-24V, DIN rail power supply, 24 Vdc, 3.125 A.