

DR-120 series
120 W Single Output Industrial DIN Rail Power Supply

~ NEW ~



Model: DR-120-24

Model: DR-120-48

Features

- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- Fixed switching frequency at 55KHz
- 100% full load burn-in test

Specifications

Model	DR-120-24	DR-120-48
Input		
Voltage range	88 ~ 132 VAC/176 ~ 264 VAC by switch 248 ~ 370 VDC	
Frequency range	47 ~ 63Hz	
Efficiency (Typ.)	85 %	84 %

AC Current (Typ.)	2.6 A/115 VAC 1.6 A/230 VAC	
Inrush Current (Typ.)	Cold Start 20 A/115 VAC 40 A/230 VAC	
Leakage current	<3.5 mA / 240 VAC	
Output		
DC Voltage	24 V	48 V
Rated Current	5 A	2.5 A
Current Range	0 ~ 5 A	0 ~ 2.5 A
Rated power	120 W	
Ripple & noise (max.) Note.2	100mVp-p	
Voltage ADJ. range	24 ~ 28 V	48 ~ 53 V
Voltage Tolerance Note.3	±1.0%	
Line Regulation	±0.5%	
Load regulation	±1.0%	
Setup, rise Time Note.5	500 ms, 70 ms/230 VAC 500 ms, 70 ms/115 VAC at full load	
Hold up time (Typ.)	36 ms/230 VAC 32 ms/115 VAC at full load	
Protection		
Overload	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed	
Over voltage	29 ~ 33 V	58 ~ 65 V
	Protection type : Shut down o/p voltage, re-power on to recover	
Environmental		
Working temp.	-10 ~ +60 °C (Refer to output load derating curve)	
Working humidity	20 ~ 90% RH non-condensing	
Storage TEMP., humidity	-20 ~ +85 °C , 10 ~ 95% RH	
TEMP. Coefficient	±0.03%/°C (0 ~ 50°C)	
Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
Safety & EMC (Note 4)		

Safety standards	UL508, UL60950-1, TUV EN60950-1 Approved
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500 VDC
EMI Conduction & Radiation	Compliance to EN55011,EN55022 (CISPR22) Class B
Hsrmonic 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
DC OK Relay Contact	
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load
Others	
MTBF	136.8Khrs min. MIL-HDBK-217F (25°C)
Dimensions (W x H x D)	65.5 x 125.2 x 100 mm
Packing	0.79 Kg; 20 pcs/16.5 Kg/1.1 CUFT
NOTE	
<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 	

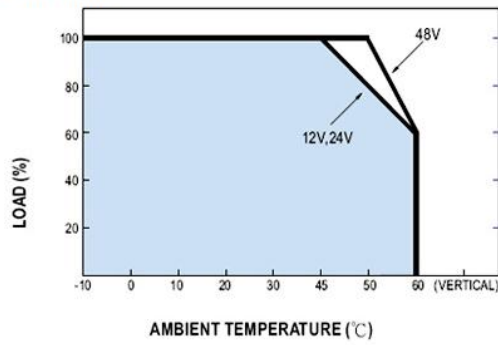
Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	FG⊕
2	AC/N
3	AC/L

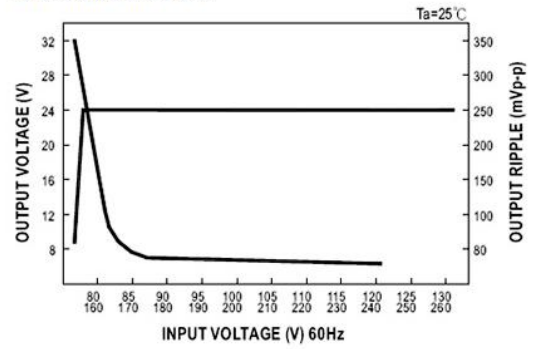
Terminal Pin. No Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

■ Output Derating



■ Static Characteristics (24V)



Ordering Information

DR-120-24	24 V/5 A, 120 W Single Output Industrial DIN Rail Power Supply
DR-120-48	48 V/2.5 A, 120 W Single Output Industrial DIN Rail Power Supply