



乐清市乐宇自动化电气有限公司

Yueqing Leyu Electric Automation Co., Ltd.

120W Single Output Industrial DIN Rail Power Supply

DR-120 series

Features:

Universal AC input / full range

Protections: Short circuit/ Over load/ Over voltage/ Over temperature

Cooling by free air convection

Can be installed on DIN rail TS-35/7.5 or 15

LED indicator for power on

100% full load burn-in test

Fixed switch frequency at 55KHz

1 year warranty

SPECIFICATIONS			
OUTPUT			
Model	DR-120-12	DR-120-24	DR-120-48
DC Voltage	12V	24V	48V
Rated Current	10A	5A	2.5A
Current Range	0-10A	0-10A	0-2.5A
Rated Power	120W	120W	120W
Ripple & Noise	80mVp-p	80mVp-p	100mVp-p
Voltage Adj. Range	12-14V	24-28V	48-53V
Voltage Tolerance	±2%	±1%	±1%
Setup, Rise Time	500ms,70ms/230VAC 500ms,70ms/115VAC at full load		
Hold Up Time	36ms/230VAC 32ms/115VAC at full load		
INPUT			
Voltage Range	88~132VAC/176~264VAC selected by switch		47~63Hz; 248~370VDC
AC Current	2.6A/115V 1.6A/230V		
Efficiency	80%	84%	85%
Inrush Current	Cold start 20A/115V 40A/230V		
Leakage Current	<3.5mA/240VAC		
PROTECTION			
Over Load	105%~150%		
	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
Over Voltage	120%~135%		
	Protection type: Shut down o/p voltage, re-power on to recover		
Over Temp.	85°C±5°C(TSW1)	90°C±5°C(TSW1)	90°C±5°C(TSW1)
	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		



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ENVIRONMENT	
Working Temp., Humidity	-10℃~+60℃; 20%~90%RH
Storage Temp., Humidity	-20℃~+85℃; 10%~95%RH
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes
SAFETY	
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 / 500VDC
STANDARD	
Safety Standard	Design refer to UL508,UL60950-1, TUV EN60950-1
EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,ENV50204,EN55024,EN61000-6-2(EN50082-2)
OTHERS	
Dimension	65.5*125.2*100mm(L*W*H)
Weight	0.79Kg
Packing	20pcs/16.5Kg/1.1CUFT
NOTE	
1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.	
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μ 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.	



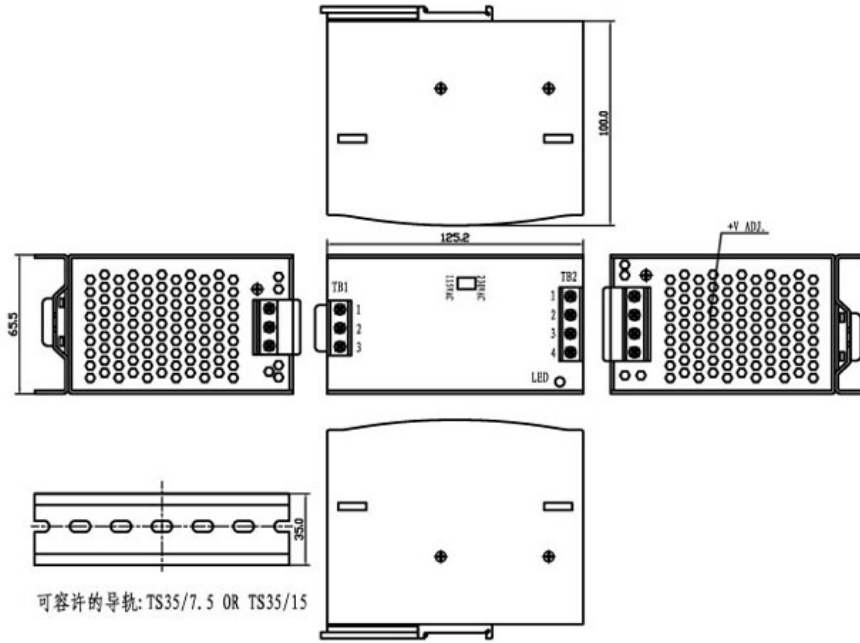
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DR-120 Series

■ Outline and Dimension:



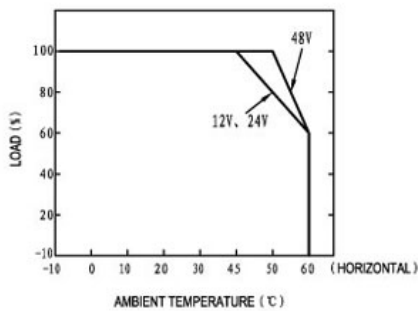
Terminal Pin No. Assignment (TB1):

Pin No.	Assignment
1	PG
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)

