



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:

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

2 years 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 | 0-5A | 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% |
| Line regulation | ±0.5% | ±0.5% | ±0.5% |
| Load regulation | ±1% | ±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/115VAC 1.6A/230VAC | | |
| Efficiency | 80% | 84% | 85% |
| Inrush Current | Cold start 20A/115V 40A/230V | | |
| Leakage Current | <3.5mA/240VAC | | |
| PROTECTION | | | |
| Over Load | 105%~150% rated output power | | |
| | Protection type: Constant current limiting, recovers automatically after fault condition is removed | | |
| Over Voltage | 15-16.5V | 29-33V | 58-65V |



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| | | | |
|--|---|----------------|----------------|
| | 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 | | |
| ENVIRONMENT | | | |
| Working Temp., Humidity | -10°C~+60°C; 20%~90% RH non-condensing | | |
| Storage Temp., Humidity | -20°C~+85°C; 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/25°C/70%RH | | |
| 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,EN55024, EN61000-6-2(EN50082-2), heavy industry level, criteria A | | |
| OTHERS | | | |
| Dimension | 65.5*125.2*100mm(L*W*H) | | |
| Weight | 0.79Kg | | |
| Packing | 20pcs/carton/16.5kg/1.29CUFT | | |
| NOTE | | | |
| <p>1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.</p> <p>3.Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> | | | |



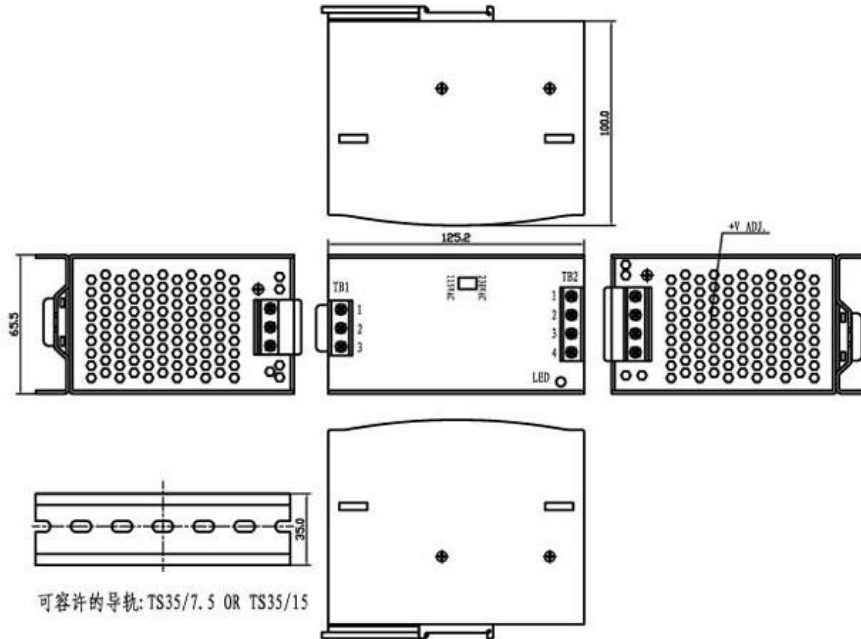
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■ Outline and Dimension:



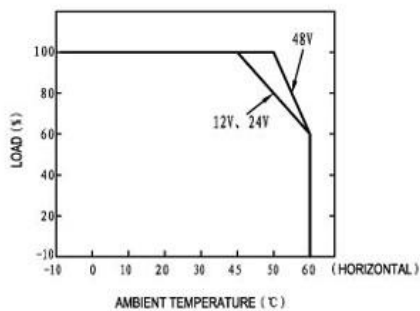
Terminal Pin No. Assignment (TB1):

| 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)

