





POLLOCK INDUSTRIES

Technical Data Sheet

120W 12V Single Output
DIN RAIL Power Supply

| UNIT CODE | DESCRIPTION |
|---------------|-----------------------------------------------------------|
| DIN RP 120-12 | 120 Watt, 12 Volt, Single Output DIN RAIL Power Supply |

| SPECIFICATIONS | | |
|-------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Input | Output | Approvals |
| Selectable by Switch 88~264VAC or 176~264VAC | +24VDC @ 0 ~ 10A |     |

Features at a Glance:

Low cost, high reliability

UL 508 (industrial control equipment) approved

Fan-less cooling by natural (free air) convection

Working temp range: -10~+60 °C (see derating curve)

Short circuit, over load, over voltage and over temperature protected

Soft-start circuit - limiting AC surge current

International AC input range

100% full load burn in test

Installed on DIN rail TS35 / 7.5 or 15

Fixed switching frequency at 55KHz

LED indication for power on

Safety standards: UL508, UL60950-1, TUV EN60950-1

EMC standards: Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3; ENV50204; EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2) Heavy Industry Level, Criteria A

MTBF hours: 432.1K hrs min. *MIL-HDBK-217F (25°C)*

Case: 921A

Weight: 1.7 lbs (0.79 Kgs)

Dimensions: 2.57W x 3.93H x 3.93D inches
65.5W x 125.2H x 100D mm



The DIN RP-120 series are an economical industrial DIN rail power supply with AC input range selectable by switch and works world-wide. Standard features include short circuit, overload, over voltage and over temperature protections.

What we like about this series is that they work with fan-less natural convection cooling in ambients up to +60°C (140°F). This significantly increases the reliability and lifetime of the power supply.

Typically used factory automation, IT, security, data communications, control panels and electro-mechanical apps.

| | | |
|----------|-------|-----------|
| Pricing: | 1 ~ 9 | \$ 129.50 |
| | 10+ | 97.35 |
| | 25+ | 89.70 |

Pollock Industries, Inc., PO Box 1003, White River, VT 05001
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120W Single Output Industrial DIN RAIL Power Supply

DR-120 series



■ Features :

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 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
- 100% full load burn-in test
- Fixed switching frequency at 55KHz
- 3 years warranty



SPECIFICATION

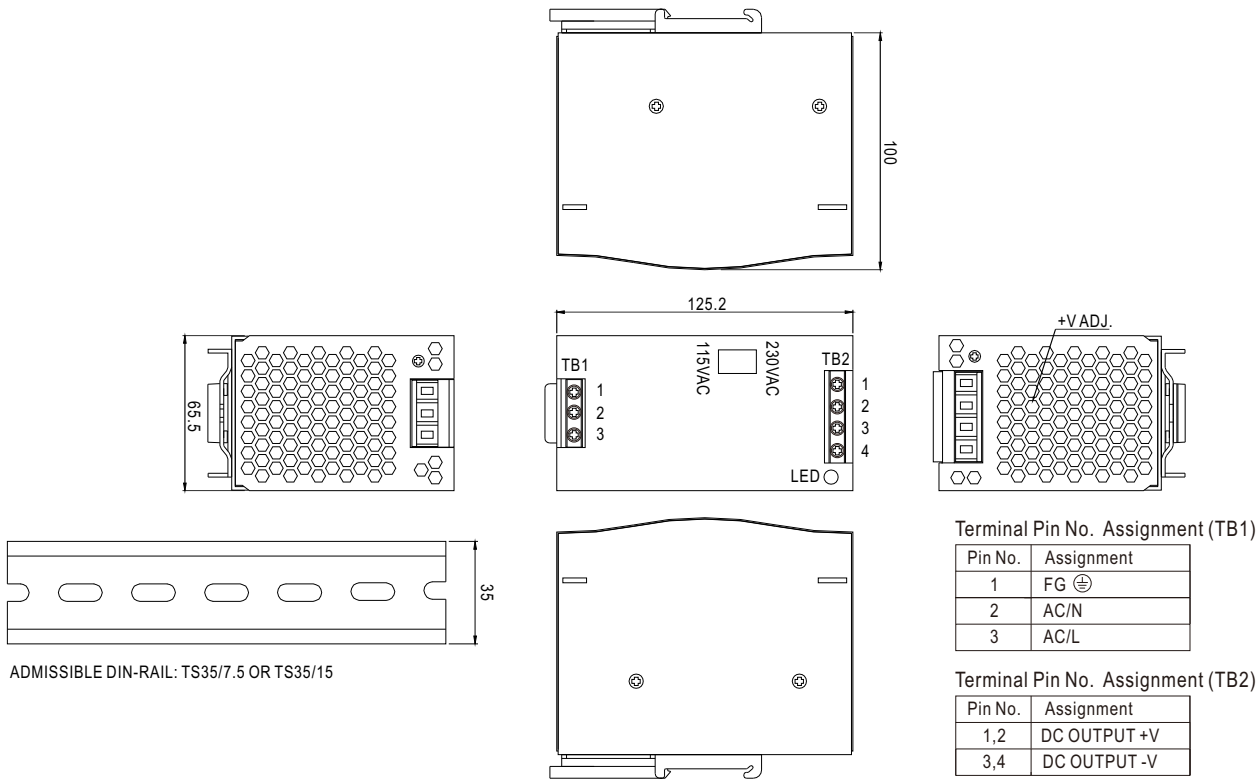
| MODEL | DR-120-12 | DR-120-24 | DR-120-48 | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
| OUTPUT | 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 (max.) Note.2 | 80mVp-p | 80mVp-p | 100mVp-p |
| | VOLTAGE ADJ. RANGE | 12 ~ 14V | 24 ~ 28V | 48 ~ 53V |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% |
| | SETUP, RISE TIME | 500ms, 70ms/230VAC 500ms, 70ms/115VAC at full load | | |
| HOLD UP TIME (Typ.) | 36ms/230VAC 32ms/115VAC at full load | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC/176 ~ 264VAC by switch | | 248 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | EFFICIENCY (Typ.) | 80% | 84% | 85% |
| | AC CURRENT (Typ.) | 2.6A/115VAC 1.6A/230VAC | | |
| | INRUSH CURRENT (Typ.) | COLD START 20A/115VAC 40A/230VAC | | |
| LEAKAGE CURRENT | <3.5mA / 240VAC | | | |
| PROTECTION | OVERLOAD | 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 |
| | OVER TEMPERATURE | 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. | -10 ~ +60°C (Refer to "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; Mounting: Compliance to IEC60068-2-6 | | |
| 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 / 500VDC / 25°C / 70% RH | | |
| | EMC EMISSION | Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3 | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A | | |
| OTHERS | MTBF | 432.1Khrs min. MIL-HDBK-217F (25°C) | | |
| | DIMENSION | 65.5*125.2*100mm (W*H*D) | | |
| | PACKING | 0.79Kg; 20pcs/16.5Kg/1.29CUFT | | |
| 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. | | | |

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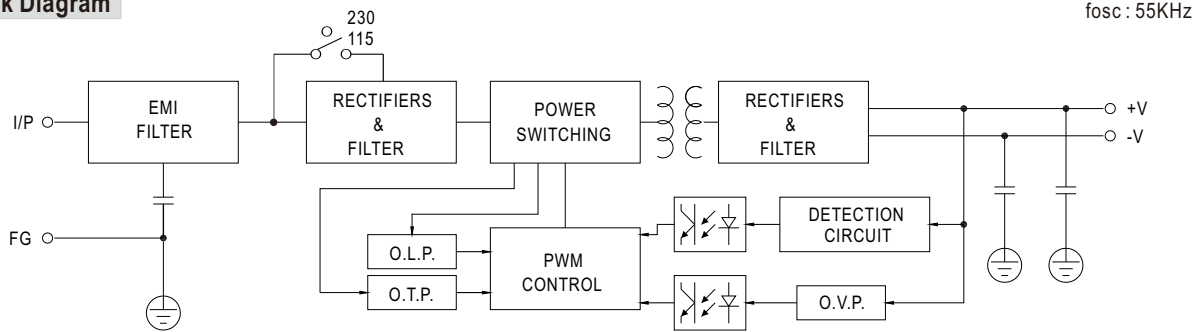
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Case No. 921A Unit:mm

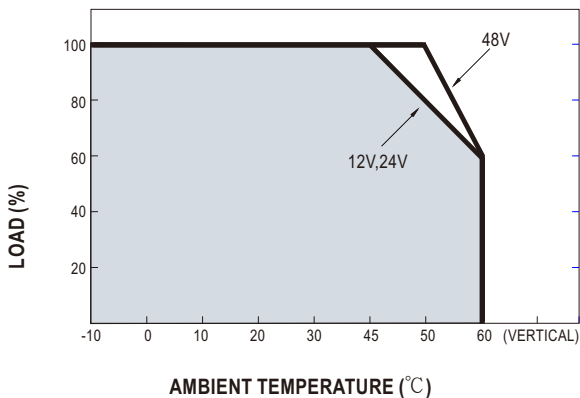
Mechanical Specification



Block Diagram



Derating Curve



Static Characteristics (24V)

