



120W Triple Output Switching Power Supply

T-120 series



■ Features :

- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage
- 100% full load burn-in test
- Fixed switching frequency at 25KHz
- 2 years warranty



SPECIFICATION

| MODEL | T-120A | | | T-120B | | | T-120C | | | T-120D | | | |
|-----------------------|---|--|----------|----------|-------------|----------|----------|--------------|----------|----------|---------|----------|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 5V | 12V | -5V | 5V | 12V | -12V | 5V | 15V | -15V | 5V | 12V | 24V |
| | RATED CURRENT | 11A | 5A | 1A | 11A | 4.5A | 1A | 10A | 3.5A | 1A | 8A | 2.5A | 2A |
| | CURRENT RANGE | 2 ~ 12A | 0.5 ~ 5A | 0.2 ~ 1A | 2 ~ 12A | 0.5 ~ 5A | 0.2 ~ 1A | 2 ~ 12A | 0.5 ~ 5A | 0.2 ~ 1A | 2 ~ 12A | 0.2 ~ 5A | 0.2 ~ 2A |
| | RATED POWER | 120W | | | 121W | | | 117.5W | | | 118W | | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 80mVp-p | 80mVp-p | 120mVp-p | 120mVp-p | 80mVp-p | 150mVp-p | 150mVp-p | 80mVp-p | 120mVp-p | 180mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | | | | | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±6.0% | ±6.0% | ±2.0% | ±6.0% | ±6.0% | ±2.0% | +10,-5% | +10,-5% | ±2.0% | ±6.0% | ±6.0% |
| | LINE REGULATION | ±0.5% | ±1.0% | ±1.0% | ±0.5% | ±1.0% | ±1.0% | ±0.5% | ±1.0% | ±1.0% | ±0.5% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±0.5% | ±5.0% | ±5.0% | ±0.5% | ±5.0% | ±5.0% | ±0.5% | ±6.0% | ±6.0% | ±0.5% | ±5.0% | ±5.0% |
| SETUP, RISE TIME | 800ms, 20ms/230VAC 1600ms, 20ms/115VAC at full load | | | | | | | | | | | | |
| HOLD UP TIME (Typ.) | 24ms/230VAC 14ms/115VAC at full load | | | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC/176 ~ 264VAC selected by switch | | | | | | 240 ~ 370VDC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 77% | | | 77% | | | 76% | | | 80% | | |
| | AC CURRENT (Typ.) | 2.2A/115VAC | | | 1.3A/230VAC | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 32A | | | | | | | | | | | |
| LEAKAGE CURRENT | <3.5mA / 240VAC | | | | | | | | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 135% rated output power Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| | OVER VOLTAGE | CH1:5.75 ~ 6.75VDC Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| ENVIRONMENT | 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 | UL60950-1, TUV EN60950-1, CCC GB4943 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 | | | | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to 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, light industry level, criteria A | | | | | | | | | | | | |
| OTHERS | MTBF | 274.5K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| | DIMENSION | 199*110*50mm (L*W*H) | | | | | | | | | | | |
| | PACKING | 0.83Kg; 16pcs/14.2Kg/0.95CUFT | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |

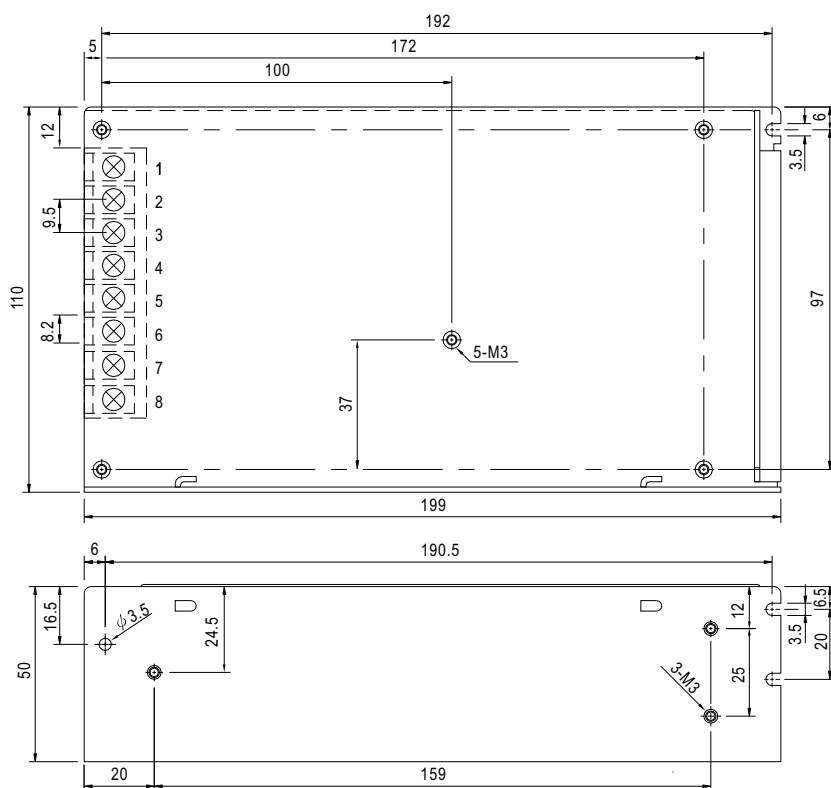


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T-120 series

Mechanical Specification

Case No. 906 Unit:mm

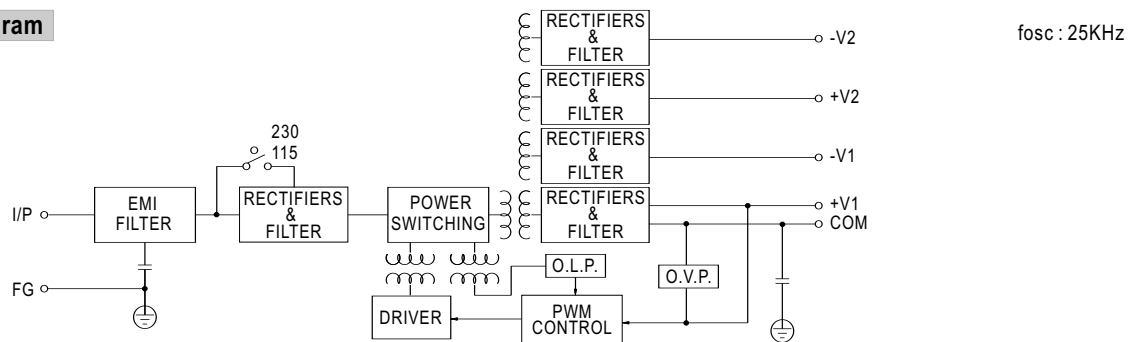


Terminal Pin No. Assignment

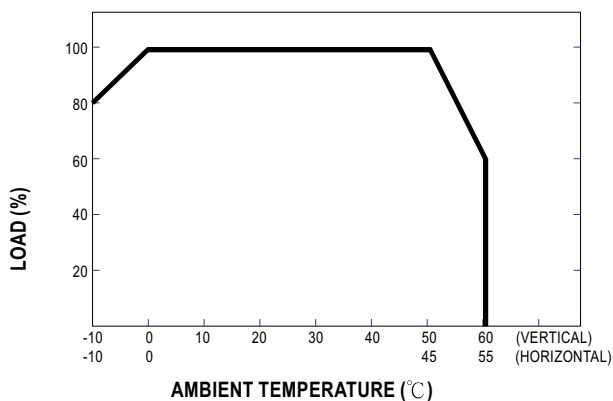
| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|---------------|
| 1 | AC/L | 4,5,6 | DC OUTPUT |
| 2 | AC/N | 7 | DC OUTPUT COM |
| 3 | FG \perp | 8 | DC OUTPUT +5V |

| MODEL | T-120A | T-120B | T-120C | T-120D |
|-----------|--------|--------|--------|--------|
| Pin No. 4 | +12V | +12V | +15V | +24V |
| Pin No. 5 | NC | -12V | -15V | +12V |
| Pin No. 6 | -5V | NC | NC | NC |

Block Diagram



Derating Curve



Static Characteristics(B)

