



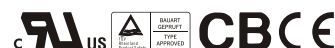
35W Single Output Switching Power Supply

PS-35 series



■ Features :

- Universal AC input/Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 60KHz
- 2 years warranty



SPECIFICATION

| MODEL | PS-35-3.3 | PS-35-5 | PS-35-7.5 | PS-35-12 | PS-35-13.5 | PS-35-15 | PS-35-24 | PS-35-48 | | |
|-----------------------|---|---|--------------|--------------|--------------|----------------|----------------|--------------|--------------|--|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 48V | |
| | RATED CURRENT | 6A | 6A | 4.7A | 3A | 2.6A | 2.4A | 1.5A | 0.75A | |
| | CURRENT RANGE | 0 ~ 6A | 0 ~ 6A | 0 ~ 4.7A | 0 ~ 3A | 0 ~ 2.6A | 0 ~ 2.4A | 0 ~ 1.5A | 0 ~ 0.75A | |
| | RATED POWER | 19.8W | 30W | 35.25W | 36W | 35.1W | 36W | 36W | 36W | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 100mVp-p | 100mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | 240mVp-p | |
| | VOLTAGE ADJ. RANGE | 3.14 ~ 3.63V | 4.75 ~ 5.5V | 7.13 ~ 8.25V | 10.8 ~ 13.2V | 12.15 ~ 14.85V | 13.5 ~ 16.5V | 21.6 ~ 26.4V | 43.2 ~ 52.8V | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | LOAD REGULATION | ±1% | ±1% | ±1% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME | 1200ms, 30ms/230VAC, 1200ms, 30ms/115VAC at full load | | | | | | | | |
| HOLD TIME (Typ.) | 50ms/230VAC, 10ms/115VAC at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 440Hz | | | | | | | | |
| | EFFICIENCY(Typ.) | 70% | 78% | 80% | 81% | 81% | 81% | 85% | 84% | |
| | AC CURRENT (Typ.) | 0.75A/115VAC 0.5A/230VAC | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 23A/115VAC 45A/230VAC | | | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | | | |
| PROTECTION | OVER LOAD | 105 ~ 150% rated output power (3.3V:105 ~ 160% rated output power) Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.95V | 5.75 ~ 6.75V | 8.63 ~ 10.5V | 13.8 ~ 16.2V | 15.5 ~ 18.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 55.2 ~ 62.4V | |
| | | Protection type : shut down O/P voltage, re-power on to recover | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +65°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 | ±0.05%/°C (0 ~ 50°C) | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes | | | | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL60950, 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 | | | | | | | | |
| | 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 | 588.8Khrs | | | | | | | | |
| | DIMENSION | 101.6*50.8*24mm (L*W*H) | | | | | | | | |
| | PACKING | 0.124Kg;96PCS/12.9Kg/0.8CUFT | | | | | | | | |
| 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. | | | | | | | | | |

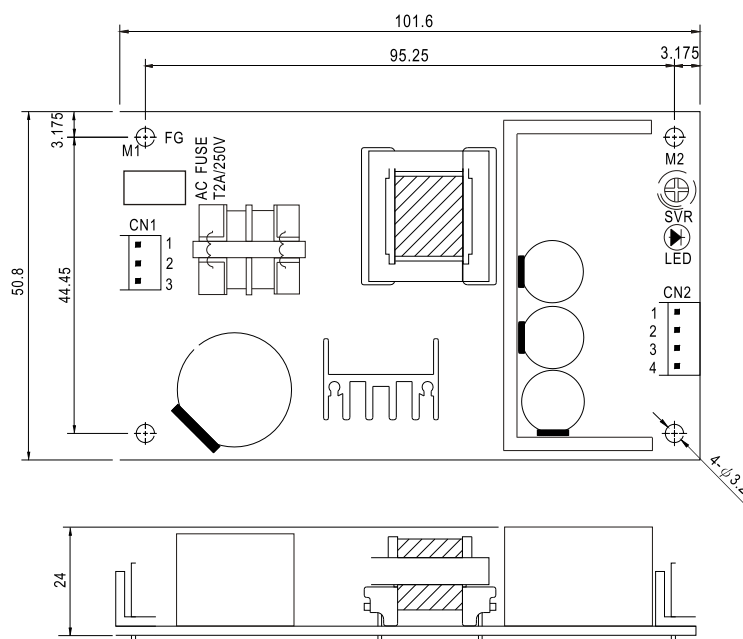


35W Outputs Switching Power Supply

PS-35 series

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B3P-VH-B or equivalent

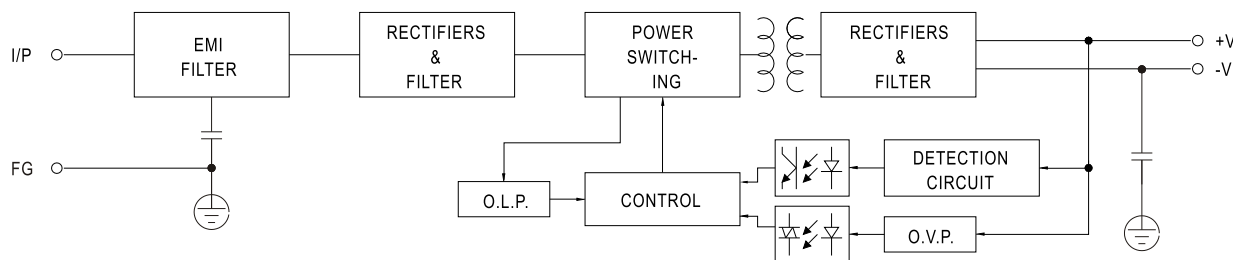
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1 | AC/L | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3 | AC/N | | |
| 2 | NC | | |

DC Output Connector (CN2) : JST B4P-VH-B or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | +V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | -V | | |

Block Diagram

fosc : 60KHz



Derating Curve

Output Derating VS Input Voltage

