



35W Triple Output Switching Power Supply

NET-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
- 2 years warranty



SPECIFICATION

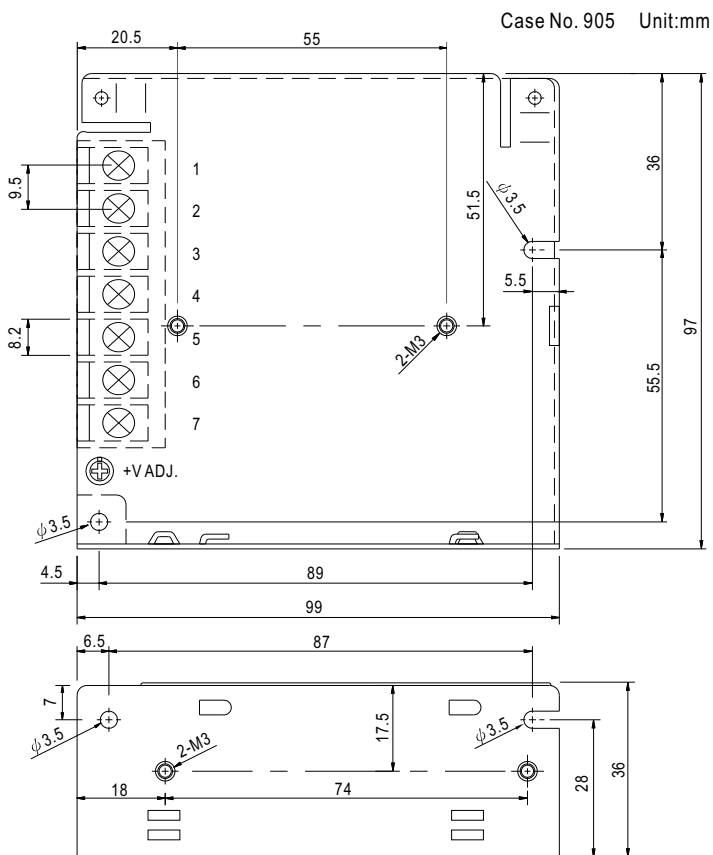
| MODEL | | NET-35A | | | NET-35B | | | NET-35C | | | NET-35D | | |
|--------------------------|--|---|------------|------------|----------------------------------|------------|------------|------------------|------------|------------|------------------|----------|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 5V | 12V | -5V | 5V | 12V | -12V | 5V | 15V | -15V | 5V | 24V | 12V |
| | RATED CURRENT | 3A | 1A | 0.5A | 3A | 1A | 0.5A | 2.5A | 1A | 0.5A | 2.5A | 0.5A | 1A |
| | CURRENT RANGE Note.6 | 0.5 ~ 4A | 0.1 ~ 1.5A | 0.1 ~ 0.5A | 0.5 ~ 4A | 0.1 ~ 1.5A | 0.1 ~ 0.5A | 0.5 ~ 3.5A | 0.1 ~ 1.5A | 0.1 ~ 0.5A | 0.5 ~ 3.5A | 0.1 ~ 1A | 0.1 ~ 1A |
| | RATED POWER | 29.5W | | | 33W | | | 35W | | | 36.5W | | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 120mVp-p | 80mVp-p | 120mVp-p | 120mVp-p | 80mVp-p | 150mVp-p | 150mVp-p | 80mVp-p | 200mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | | CH1: 4.75 ~ 5.5V | | | CH1: 4.75 ~ 5.5V | | | CH1: 4.75 ~ 5.5V | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±6.0% | ±6.0% | ±2.0% | ±6.0% | ±6.0% | ±2.0% | ±8.0% | ±8.0% | ±2.0% | ±8.0% | ±8.0% |
| | LINE REGULATION Note.4 | ±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 Note.5 | ±1.5% | ±3.0% | ±3.0% | ±1.5% | ±3.0% | ±3.0% | ±1.5% | ±3.0% | ±3.0% | ±1.5% | ±3.0% | ±3.0% |
| SETUP, RISE TIME | | 500ms, 30ms/230VAC | | | 1200ms, 30ms/115VAC at full load | | | | | | | | |
| HOLD UP TIME (Typ.) | | 50ms/230VAC | | | 10ms/115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 264VAC | | | 120 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 78% | | | 79% | | | 79% | | | 79% | | |
| | AC CURRENT (Typ.) | 0.75A/115VAC | | | 0.5A/230VAC | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 45A | | | | | | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | |
| | OVER VOLTAGE | CH1: 5.75 ~ 6.75V Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60℃ (Refer to output load derating curve) | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85℃, 10 ~ 95% RH | | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 45℃) | | | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | | | |
| SAFETY & EMC (Note 6) | SAFETY STANDARDS | UL60950-1, CB(IEC60950-1) 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, EN61000-6-1 Light industry level, criteria A | | | | | | | | | | | |
| OTHERS | MTBF | 386.2Khrs min. MIL-HDBK-217F (25℃) | | | | | | | | | | | |
| | DIMENSION | 99*97*36mm (L*W*H) | | | | | | | | | | | |
| | PACKING | 0.36Kg; 45pcs/17.2Kg/0.93CUFT | | | | | | | | | | | |
| 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 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load. 6. Each output can work within current range. But total output power can't exceed rated output power. 7. 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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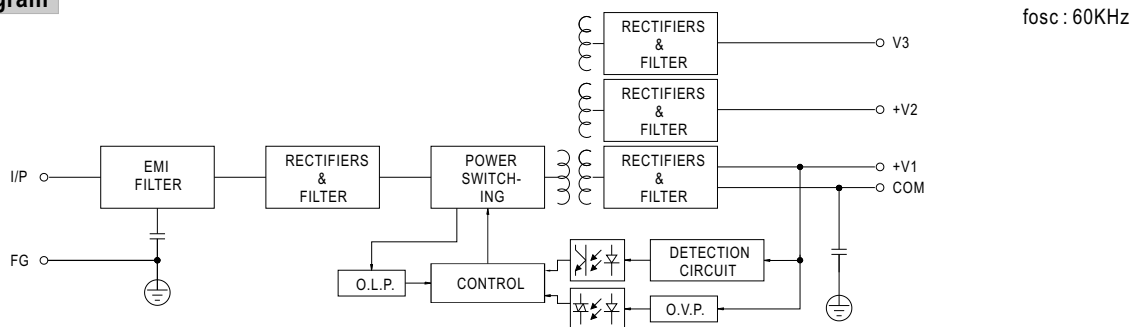
Mechanical Specification

Terminal Pin. No Assignment

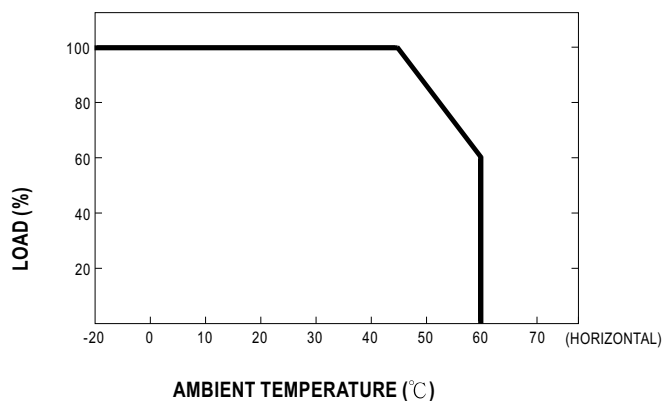
| Pin No. | Assignment | Pin No. | Assignment |
|---------|--------------|---------|---------------|
| 1 | AC/L | 5 | DC OUTPUT +V2 |
| 2 | AC/N | 6 | DC OUTPUT COM |
| 3 | FG \perp | 7 | DC OUTPUT +V1 |
| 4 | DC OUTPUT V3 | | |



Block Diagram



Derating Curve



Output Derating VS Input Voltage

