



■ Features :

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability
- 2 years warranty

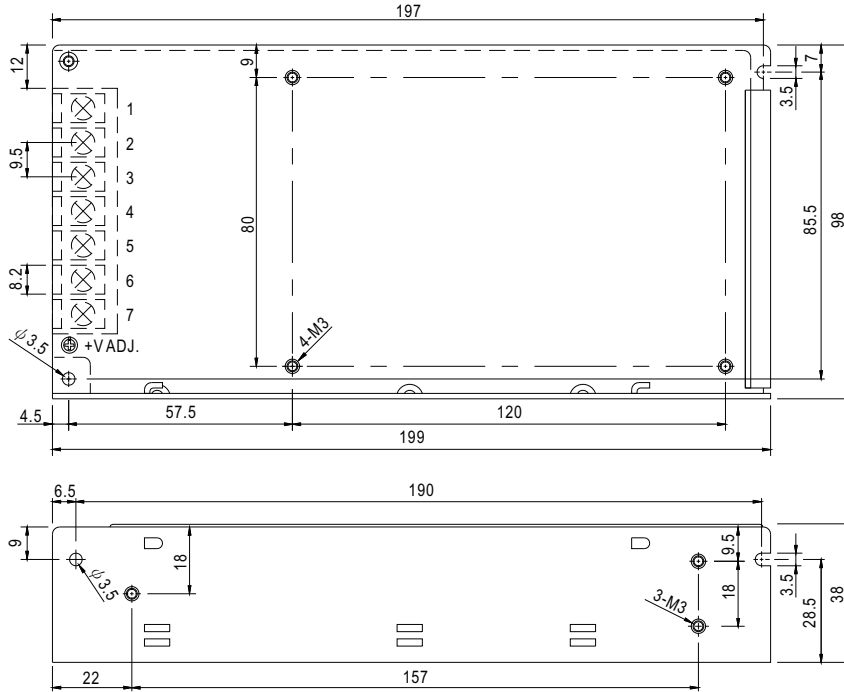


SPECIFICATION

| MODEL | NES-150-3.3 | NES-150-5 | NES-150-7.5 | NES-150-9 | NES-150-12 | NES-150-15 | NES-150-24 | NES-150-48 | |
|-----------------------|--|---|--------------|--------------|--------------|----------------|----------------|--------------|--------------|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 9V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 30A | 26A | 20A | 16.7A | 12.5A | 10A | 6.5A | 3.3A |
| | CURRENT RANGE | 0 ~ 30A | 0 ~ 26A | 0 ~ 20A | 0 ~ 16.7A | 0 ~ 12.5A | 0 ~ 10A | 0 ~ 6.5A | 0 ~ 3.3A |
| | RATED POWER | 99W | 130W | 150W | 150W | 150W | 150W | 156W | 158.4W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 80mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 200mVp-p |
| | VOLTAGE ADJ. RANGE | 3.2 ~ 3.5V | 4.75 ~ 5.5V | 7.13 ~ 8.3V | 8.55 ~ 9.9V | 11.4 ~ 13.5V | 14.25 ~ 16.5V | 22.8 ~ 27.6V | 45.6 ~ 52.8V |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LINE REGULATION Note.4 | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION Note.5 | ±2.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | SETUP, RISE TIME Note.8 | 800ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load | | | | | | | |
| HOLD UP TIME (Typ.) | 24ms/230VAC 20ms/115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 132VAC / 180 ~ 264VAC selected by switch 254 ~ 373VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | |
| | EFFICIENCY (Typ.) | 73% | 78% | 80% | 83% | 83% | 83% | 86% | 86% |
| | AC CURRENT (Typ.) | 3A/115VAC | | 2A/230VAC | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 45A/230VAC | | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.65V | 5.75 ~ 6.75V | 8.6 ~ 10.1V | 10.4 ~ 12.2V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 55.2 ~ 64.8V |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60°C (Refer to output load derating curve) | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | |
| SAFETY & EMC (Note 7) | SAFETY STANDARDS Note.6 | UL60950-1, TUV EN60950-1, GB4943.1:2011 approved | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | I/P-FG:2KVAC | | O/P-FG:0.5KVAC | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC 70% RH | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B, GB9254 CLASS B | | | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3, GB17625.1 | | | | | | | |
| EMS IMMUNITY | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, heavy industry level, criteria A | | | | | | | | |
| OTHERS | MTBF | 433.3Khrs min. MIL-HDBK-217F (25°C) | | | | | | | |
| | DIMENSION | 199*98*38mm (L*W*H) | | | | | | | |
| | PACKING | 0.7Kg; 20pcs/15Kg/0.72CUFT | | | | | | | |
| NOTE | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. For the request of GB4943.1, the power supply is only suitable for use in the altitude 2000m below and the non tropical climate condition. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. | | | | | | | | |

■ Mechanical Specification

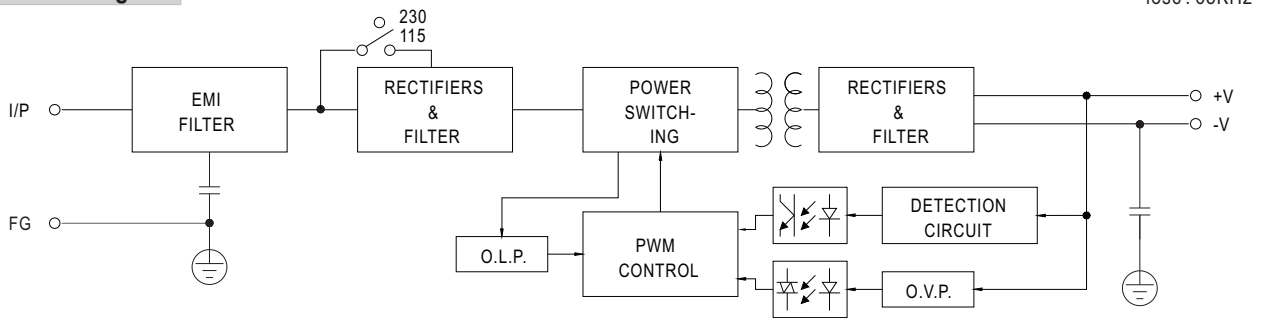
Case No. 902 Unit:mm



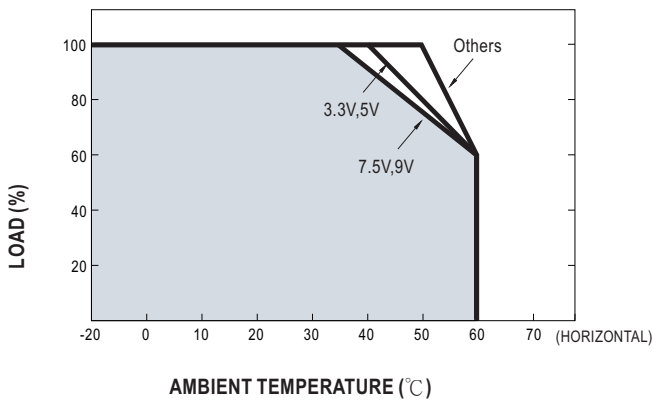
Terminal Pin No. Assignment

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

■ Block Diagram



■ Derating Curve



■ Static Characteristics

