



■ 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

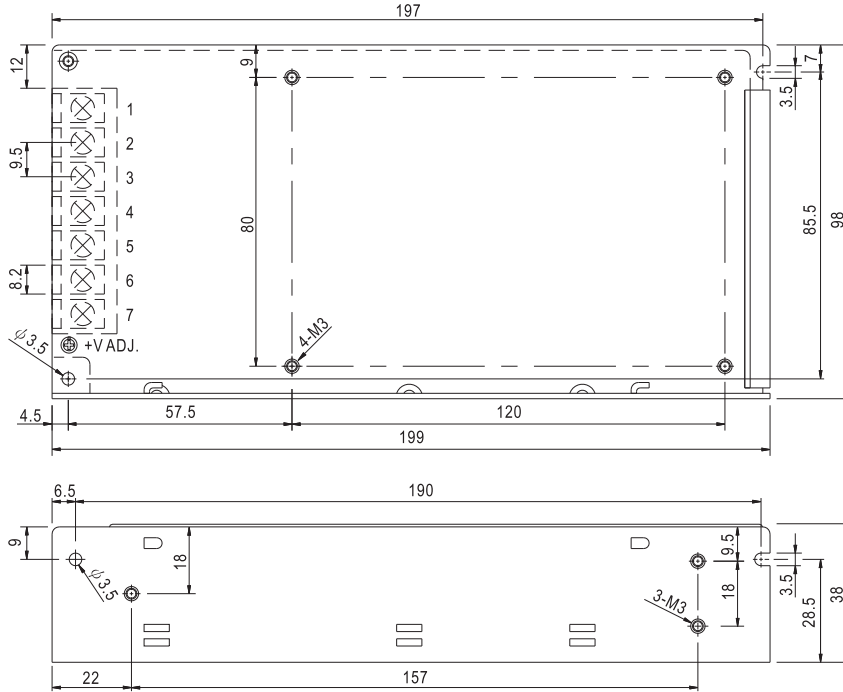


SPECIFICATION

| 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<br>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"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured from 0% to 100% rated load.</li> <li>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.</li> <li>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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.</li> </ol> |   |              |              |              |                |                |              |              |

■ Mechanical Specification

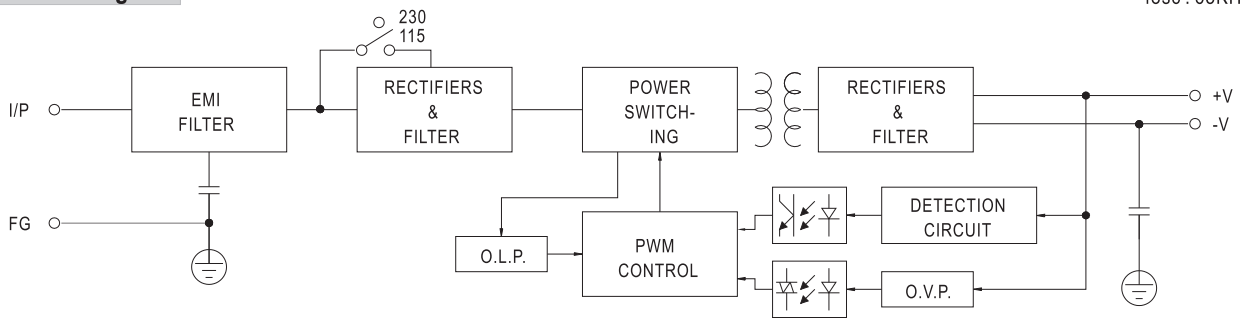
Case No. 902 Unit:mm



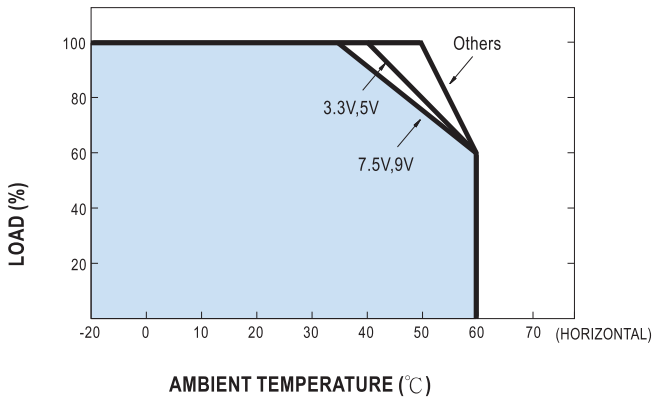
Terminal Pin No. Assignment

| 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

