

■ Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

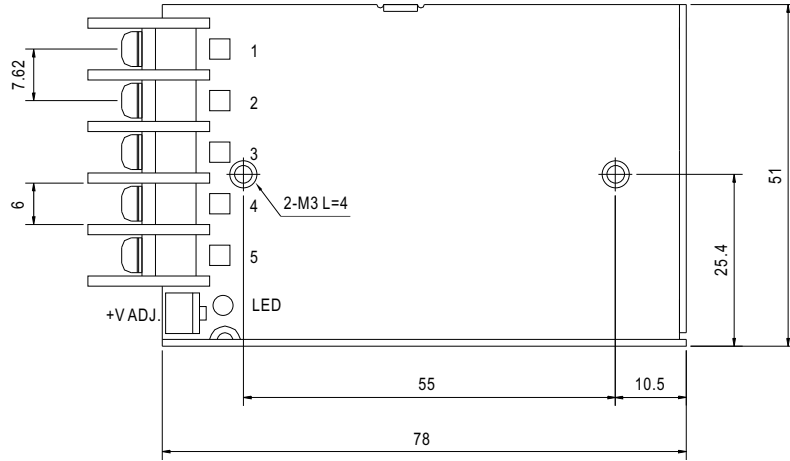


SPECIFICATION

| MODEL                 | NES-15-5   | NES-15-12   | NES-15-15    | NES-15-24      | NES-15-48    |              |
|-----------------------|--|---|--------------|----------------|--------------|--------------|
| OUTPUT                | DC VOLTAGE   | 5V  | 12V          | 15V            | 24V          | 48V          |
|                       | RATED CURRENT  | 3A  | 1.3A         | 1A             | 0.7A         | 0.35A        |
|                       | CURRENT RANGE  | 0 ~ 3A  | 0 ~ 1.3A     | 0 ~ 1A         | 0 ~ 0.7A     | 0 ~ 0.35A    |
|                       | RATED POWER  | 15W   | 15.6W        | 15W            | 16.8W        | 16.8W        |
|                       | RIPPLE & NOISE (max.) Note.2   | 150mVp-p  | 150mVp-p     | 150mVp-p       | 200mVp-p     | 240mVp-p     |
|                       | VOLTAGE ADJ. RANGE   | 4.75 ~ 5.5V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V | 43.2 ~ 52.8V |
|                       | VOLTAGE TOLERANCE Note.3   | ±2.0%   | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|                       | LINE REGULATION Note.4   | ±1.5%   | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|                       | LOAD REGULATION Note.5   | ±1.5%   | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|                       | SETUP, RISE TIME   | 1000ms, 30ms/230VAC      1000ms, 30ms/115VAC at full load   |              |                |              |              |
| HOLD UP TIME (Typ.)   | 100ms/230VAC      20ms/115VAC at full load   |   |              |                |              |              |
| INPUT                 | VOLTAGE RANGE  | 85 ~ 264VAC      120 ~ 370VDC   |              |                |              |              |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz   |              |                |              |              |
|                       | EFFICIENCY (Typ.)  | 79%   | 81%          | 81%            | 85%          | 82%          |
|                       | AC CURRENT (Typ.)  | 0.35A/115VAC      0.25A/230VAC  |              |                |              |              |
|                       | INRUSH CURRENT (Typ.)  | COLD START 45A  |              |                |              |              |
|                       | LEAKAGE CURRENT  | <2mA / 240VAC   |              |                |              |              |
| PROTECTION            | OVERLOAD   | Above 105% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                             |              |                |              |              |
|                       | OVER VOLTAGE   | 5.75 ~ 6.75V  | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 55.2 ~ 64.8V |
|                       | OVER TEMPERATURE   | U1 Tj 140°C typically (U1) detect on main control IC<br>Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |              |                |              |              |
| 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 ~ 45°C)  |              |                |              |              |
|                       | 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),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, EN61000-6-1, light industry level, criteria A                                      |              |                |              |              |
| OTHERS                | MTBF   | 563.5Khrs min.    MIL-HDBK-217F (25°C)  |              |                |              |              |
|                       | DIMENSION  | 78*51*28mm (L*W*H)  |              |                |              |              |
|                       | PACKING  | 0.18Kg; 60pcs/11.8Kg/0.46CUFT   |              |                |              |              |
| NOTE                  | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. 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>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Line regulation is measured from low line to high line at rated load.</li> <li>5. Load regulation is measured from 0% to 100% rated load.</li> <li>6. 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> </ol> |   |              |                |              |              |

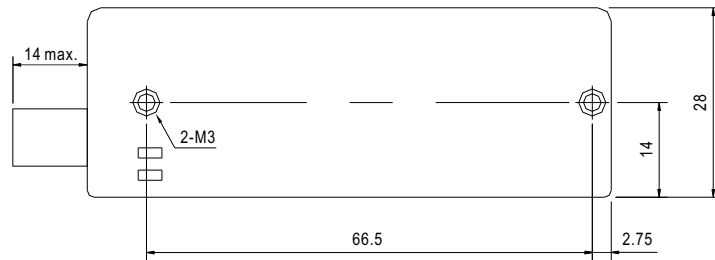
**Mechanical Specification**

Case No. 931A Unit:mm

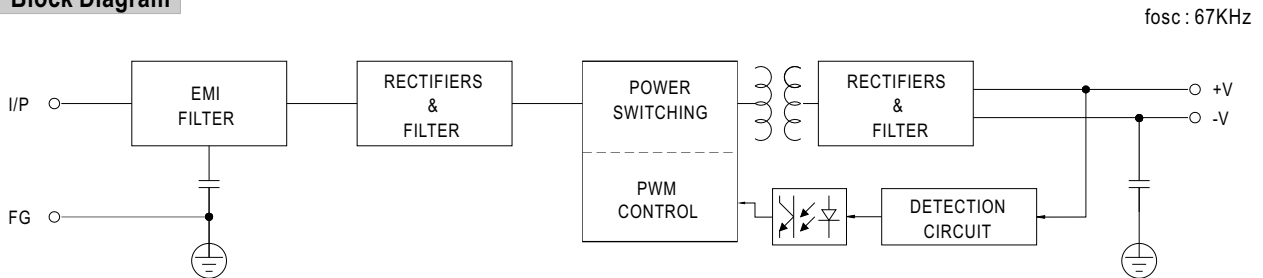


Terminal Pin No. Assignment

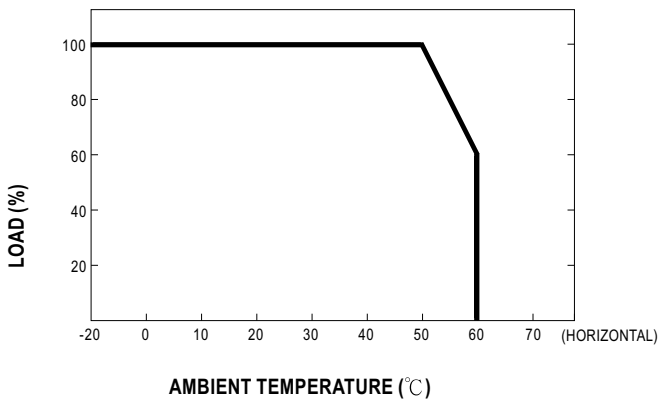
| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4       | DC OUTPUT -V |
| 2       | AC/N       | 5       | DC OUTPUT +V |
| 3       | FG $\perp$ |         |              |



**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**

