

■ Features :

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 2 years warranty

User's Manual

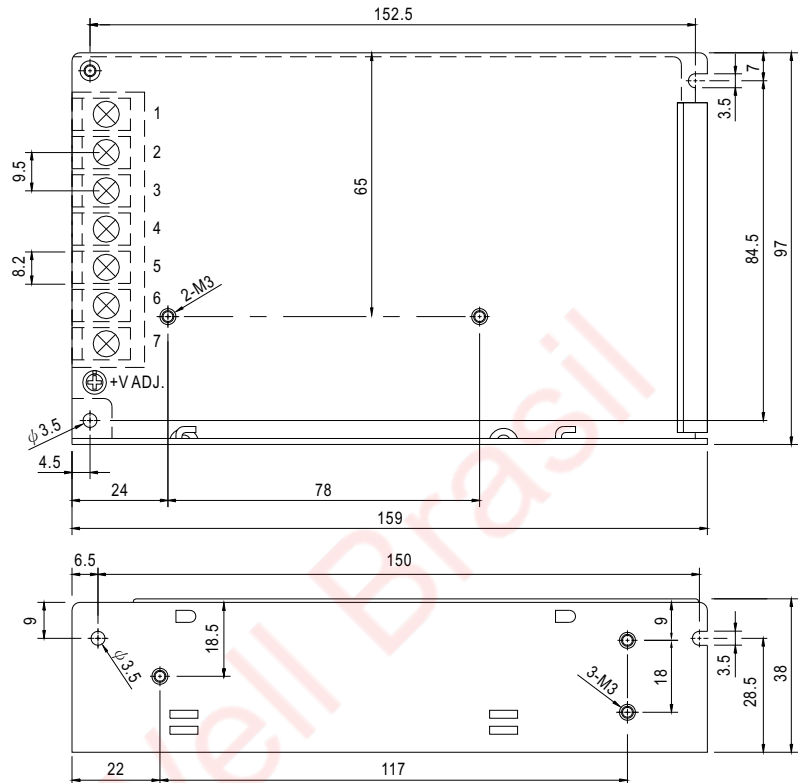


SPECIFICATION

| MODEL | | NES-100-5 | NES-100-7.5 | NES-100-9 | NES-100-12 | NES-100-15 | NES-100-24 | NES-100-48 |
|--------------------------|--|---|-------------|-------------|--------------|---------------|--------------|--------------|
| OUTPUT | DC VOLTAGE | 5V | 7.5V | 9V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 20A | 13.6A | 11.2A | 8.5A | 7A | 4.5A | 2.3A |
| | CURRENT RANGE | 0 ~ 20A | 0 ~ 13.6A | 0 ~ 11.2A | 0 ~ 8.5A | 0 ~ 7A | 0 ~ 4.5A | 0 ~ 2.3A |
| | RATED POWER | 100W | 102W | 100.8W | 102W | 105W | 108W | 110.4W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 120mVp-p | 150mVp-p |
| | VOLTAGE ADJ. RANGE | 4.75 ~ 5.5V | 7.13 ~ 8.3V | 8.55 ~ 9.9V | 11.4 ~ 13.2V | 14.25 ~ 16.5V | 22.8 ~ 26.4V | 45.6 ~ 52.8V |
| | VOLTAGE TOLERANCE Note.3 | ±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% |
| | LOAD REGULATION Note.5 | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | SETUP, RISE TIME | 1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load | | | | | | |
| HOLD UP TIME (Typ.) | 30ms/230VAC 25ms/115VAC at full load | | | | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 132VAC / 176 ~ 264VAC selected by switch 248 ~ 373VDC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | |
| | EFFICIENCY (Typ.) | 80% | 81% | 81% | 83% | 84% | 86% | 86% |
| | AC CURRENT (Typ.) | 2A/115VAC 1.2A/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 | 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 Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60°C (Refer to "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) | | | | | | |
| SAFETY & EMC (Note 7) | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | |
| | SAFETY STANDARDS Note.6 | UL60950-1, CB(IEC60950-1) 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 / 25°C/ 70% RH | | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 | | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-1, light industry level, criteria A | | | | | | |
| | MTBF | 320.7Khrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 159*97*38mm (L*W*H) | | | | | | |
| PACKING | 0.55Kg; 30pcs/17.5Kg/0.97CUFT | | | | | | | |
| | | | | | | | | |
| NOTE | 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. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. 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. 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. 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) | | | | | | | |

Mechanical Specification

Case No. 901 Unit:mm

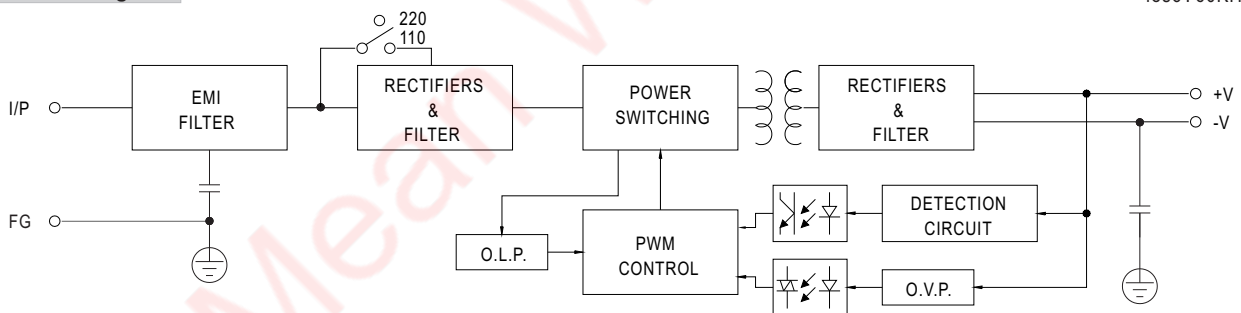


Terminal Pin No. Assignment

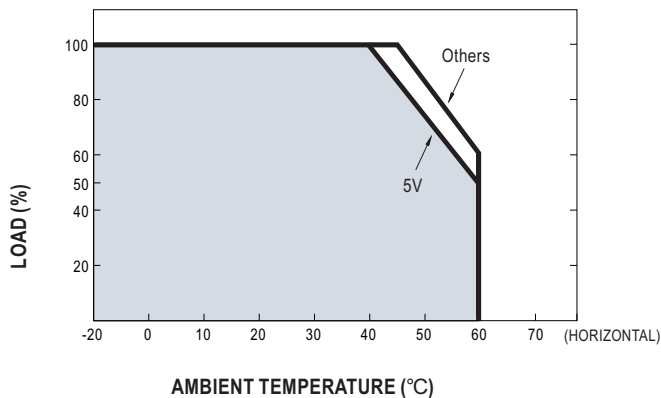
| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|--------------|
| 1 | AC/L | 4,5 | DC OUTPUT -V |
| 2 | AC/N | 6,7 | DC OUTPUT +V |
| 3 | FG \perp | | |

Block Diagram

fosc : 60KHz



Derating Curve



Static Characteristics

