



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

CB

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 | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | SETUP, RISE TIME | 500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load | | | | | | |
| HOLD 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 36A | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | |
| PROTECTION | OVER LOAD | 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 |
| 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 4) | SAFETY STANDARDS | CB Approved by TUV(Design refer to IEC 60950-1) | | | | | | |
| | 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 | 320.7Khrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 159*97*38mm (L*W*H) | | | | | | |
| | PACKING | 0.55Kg; 24pcs/14.2Kg/0.7CUFT | | | | | | |
| NOTE | <ol style="list-style-type: none"> 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. 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. | | | | | | | |

