



Dimension: 159 × 97 × 38mm

Features:

- AC input voltage range selected by switch
- Small volume, low weight, high efficiency
- Protections : short circuit/over load/over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 Years warranty



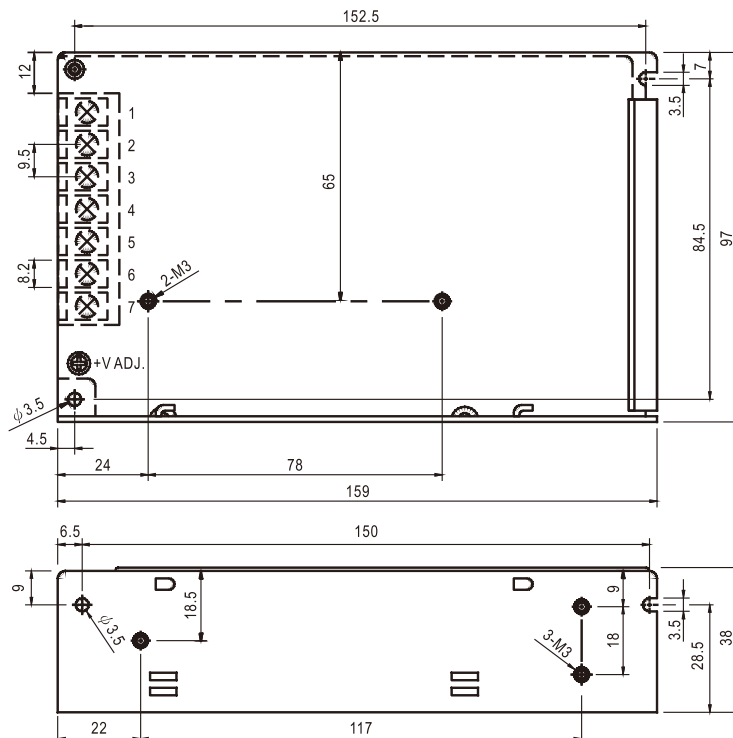
SPECIFICATION

| Model | | NES-120-12 | NES-120-15 | NES-120-24 | NES-120-48 |
|---------------------------|------------------------|--|--------------|--------------|--------------|
| Output | DC voltage | 12V | 15V | 24V | 48V |
| | Voltage tolerance | ± 1% | ± 1% | ± 1% | ± 1% |
| | Rated current | 10A | 8A | 5A | 2.5A |
| | Current range | 0 ~ 10A | 0 ~ 8A | 0 ~ 5A | 0 ~ 2.5A |
| | Rated power | 120W | 120W | 120W | 120W |
| | Ripple&noise | 100mVp-p | 120mVp-p | 150mVp-p | 200mVp-p |
| | DC voltage ADJ. range | -9% ~ +10% | ± 10% | ± 10% | ± 10% |
| Setup, rise, hold up time | | 600ms,20ms,24ms/230VAC. 1000ms,30ms,20ms/115VAC | | | |
| Input | Voltage range | 90 ~ 132VAC/180 ~ 264VAC 47 ~ 63Hz(Selected by switch), 254 ~ 373VDC | | | |
| | AC current | 2.8A/115VAC 1.4A/230VAC | | | |
| | Efficiency | 82% | 83% | 85% | 86% |
| | Inrush current | Cold start 18A/115V 36A/230VAC | | | |
| | leakage current | < 3.5mA/240VAC | | | |
| Protection | Overload | Rated output power 110% ~ 135% Start overload protection Protection type: hiccup mode, auto-recovery after fault condition is removed | | | |
| | Over voltage | 15.6 ~ 17.8V | 18.6 ~ 20.8V | 30.6 ~ 33.2V | 54.8 ~ 56.6V |
| Environment | Working temp, humidity | -20°C ~ +50°C; 20% ~ 90%RH (Please refer to "derating curve") | | | |
| | Storage temp, humidity | -40°C ~ +85°C; 10% ~ 95%RH Non-condensing | | | |
| | Withstand vibration | 10 ~ 500Hz, 5G 10min./1Cycle, Period for 60min, Each axes | | | |
| Safety | 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 | | | |
| Fit standard | Safety standard | Compliance to UL 62368-1, TUV 62368-1, EN62368-1, KC K60950-1 | | | |
| | EMC Standard | Compliance to EN 55032, CLASS A; KCC KN22 KN24, CLASS A | | | |
| Others | Dimension | 159*97*38mm (L*W*H) | | | |
| | Weight | 0.48kg/45pcs/22.5kg/1.45CUFT | | | |

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.

Mechanical specification

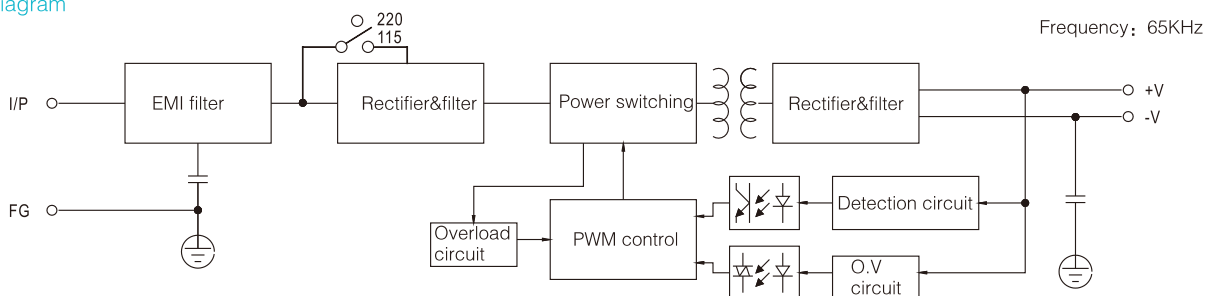
Unit:mm



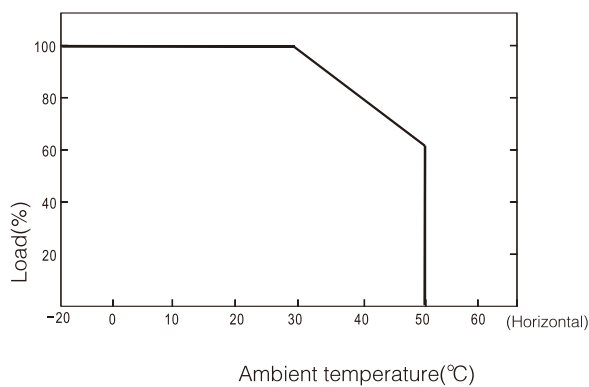
Terminal Pin No.Assignment

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

Block diagram



Derating curve



Static characteristic

