# NNS50

SPECIFICATIONS

IA507-01-01I

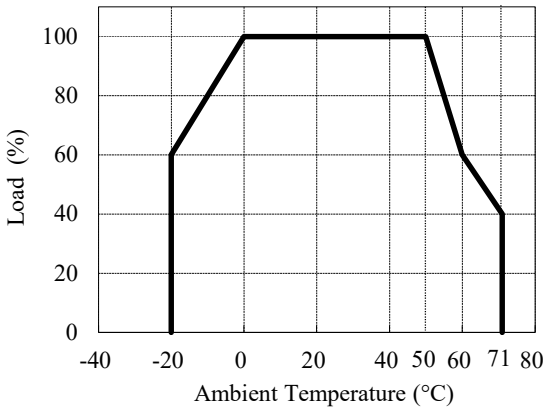
| | ITEMS / MODEL | | | NNS50-5 | NNS50-12 | NNS50-15 | NNS50-24 |
|---|---|---|---|---|---|---|---|
| 1 | Nominal Output Voltage | | V | 5 | 12.0 | 15.0 | 24.0 |
| 2 | Maximum Output Current | | A | 10 | 6.5 | 5.5 | 3.8 |
| 3 | Maximum Output Power | | W | 50 | 78 | 82.5 | 91.2 |
| 4 | Efficiency (Typ.) | (*1) | % | 42 | 51 | 53 | 56 |
| 5 | Input Voltage Range | (*2) | - | 100 : 85 ~ 115VAC<br>200 : 170 ~ 230VAC<br>47 ~ 440Hz | | 115 : 98 ~ 132VAC<br>230 : 195 ~ 265VAC | |
| 6 | Input Current (Typ.) | (*1) | A | 1.50 | 2.0 | 2.0 | 2.20 |
| 7 | In-rush Current (Typ.) | | - | 60A at 100VAC 40A at 200VAC, cold start | | | |
| 8 | Output Voltage Range | | - | ±10 % | | | |
| 9 | Maximum Ripple & Noise | (*3) | - | 1mV RMS 3mV p-p | | | |
| 10 | Maximum Line Regulation | | mV | 0.5 | 1.2 | 1.5 | 2.4 |
| 11 | Maximum Load Regulation | | mV | 1.5 | 3.6 | 4.5 | 7.2 |
| 12 | Over Current Protection | (*4) | A | 10.5 ~ 13.0 | 6.8 ~ 8.45 | 5.8 ~ 7.15 | 4.0 ~ 4.94 |
| 13 | Over Voltage Protection Crowbar Type | (*6) | V | 6.0 ~ 7.2 | 14.5 ~ 17.2 | 18.1 ~ 21.5 | 29.0 ~ 34.3 |
| 14 | Remote Programming | | - | Volt/Volt, 1000Ω/Volt typ. RP to -V Terminals | | | |
| 15 | Remote Sensing | | - | Possible, Via +S, -S Terminals | | | |
| 16 | Remote ON/OFF Control | | - | Possible | | | |
| 17 | Parallel Operation | | - | Possible, current sharing with single connection Via PC terminal | | | |
| 18 | Series Operating | | - | Possible | | | |
| 19 | Operating Temperature | | - | -20 ~ 71°C, -20°C : 60%, 0 ~ 50°C : 100%, 60°C : 60%, 71°C : 40% | | | |
| 20 | Operating Humidity | | - | 30 ~ 95% RH (No Condensing) | | | |
| 21 | Storage Temperature | | - | -40 ~ 85°C | | | |
| 22 | Storage Humidity | | - | 10 ~ 95% RH (No Condensing) | | | |
| 23 | Cooling | | - | Convection Cooling | | | |
| 24 | Temperature Coefficient | (*1) | - | 0.02% / °C | | | |
| 25 | Withstand Voltage | | - | Input - Output : 3.75kVAC, Input - Chassis : 2.5kVAC for 1 min. at 20mA | | | |
| 26 | Isolation Resistance | | - | More than 100MΩ at DC 500V at 25°C and 70% RH for 1 min. | | | |
| 27 | Vibration | | - | 10 ~ 55Hz (sweep 1 min) less than 19.6m/s$^2$ X,Y,Z 1hour. each | | | |
| 28 | Shock | | - | Less than 196m/s$^2$ | | | |
| 29 | EMI | | - | Designed to meet EN 55032-1, CISPR-32, FCC Part 15, VCCI-class B | | | |
| 30 | Safety | | - | IEC/UL/CSA 60950-1, Designed to meet IEC 62368-1 | | | |
| 31 | Weight (Typ.) | | - | 4200g | | | |
| 32 | Size (W x H x D) | (*5) | mm | 97 x 113 x 200 | | | |

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

*1 : At 100 VAC and maximum Output Power.
*2 : For cases where conformance to various safety specs. (UL, UL-C, , etc.) are required, input voltage will be 250VAC max. and frequency range 47 ~ 63Hz.
*3 : Floating output or grounded +V or -V Terminal.
*4 : Foldback current limit with automatic recovery for each output.
*5 : See Outline Drawings.
*6 : For each output - OVP circuit will shut down output, manual reset. (Line recycle)

OUTPUT DERATING

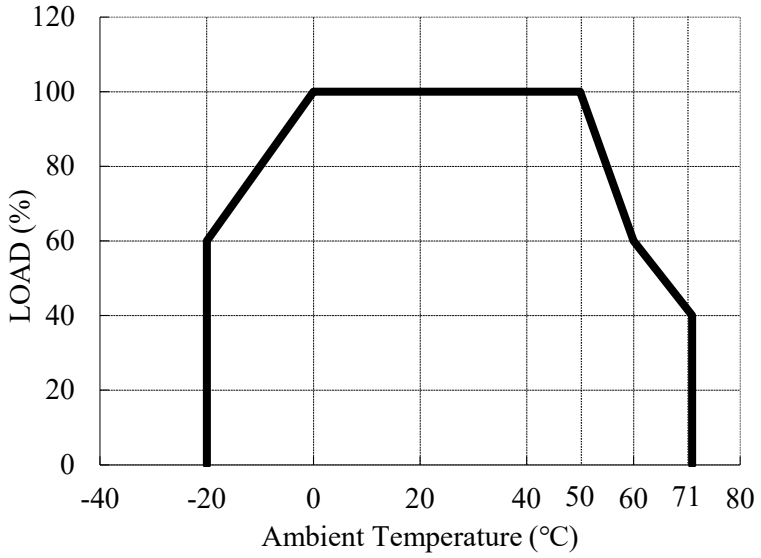


**NNS50**

OUTPUT DERATING

| Ta (°C) | LOAD (%) |
|---|---|
| | MOUNTING A |
| -20 | 60 |
| -10 | 80 |
| 0 ~ +50 | 100 |
| 60 | 60 |
| 71 | 40 |

OUTPUT DERATING CURVE




MOUNTING A

(STANDARD MOUNTING)

