



Features:

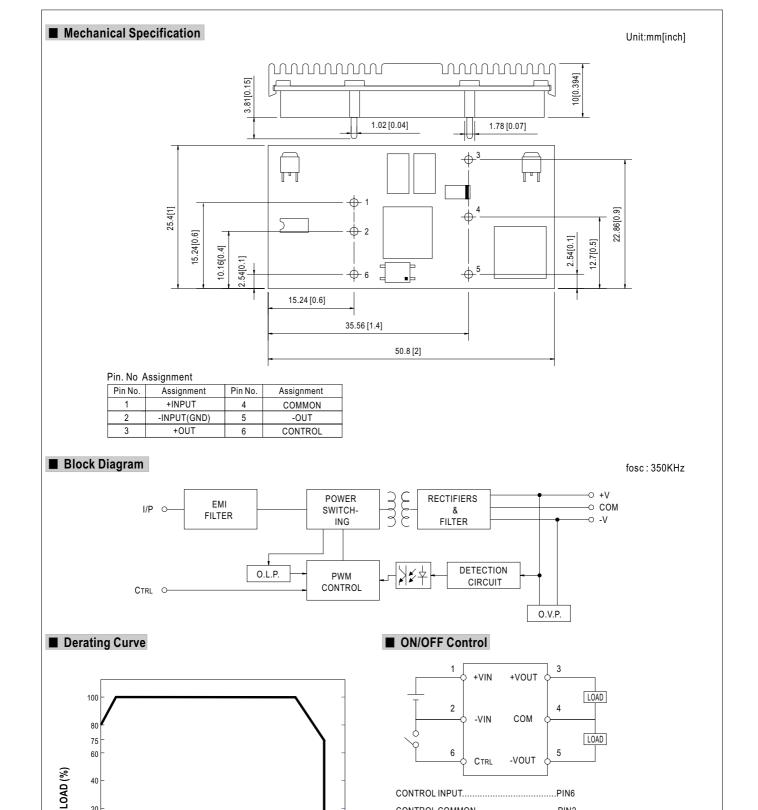
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

SPECIFICATION



| MODEL | | NSD10-12D5 | | NSD10-12D12 | | NSD10-12D15 | | NSD10-48D5 | | NSD10-48D12 | | NSD10-48D15 | | |
|-----------------|---|---|-----------|--------------|--------------|---------------|---------------|------------|-----------|--------------|--------------|----------------|--------------|--|
| | DC VOLTAGE | 5V | -5V | 12V | -12V | 15V | -15V | 5V | -5V | 12V | -12V | 15V | -15V | |
| ОИТРИТ | RATED CURRENT | 1A | 1A | 0.42A | 0.42A | 0.33A | 0.33A | 1A | 1A | 0.42A | 0.42A | 0.33A | 0.33A | |
| | CURRENT RANGE | 0.05 ~ 1A | 0.05 ~ 1A | 0.02 ~ 0.42A | 0.02 ~ 0.42A | 0.016 ~ 0.33A | 0.016 ~ 0.33A | 0.05 ~ 1A | 0.05 ~ 1A | 0.02 ~ 0.42A | 0.02 ~ 0.42A | 0.016 ~ 0.33A | 0.016 ~ 0.33 | |
| | RATED POWER | 10W | | | | | | | | | | | | |
| | CAPACITIVE LOAD (max.) | ±1000uF | | | | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 75mVp-p(10% ~ 100% load) | | | | | | | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±4.0% | | ±2.0% | | ±2.0% | | ±3.0% | | ±2.0% | | ±2.0% | | |
| | LINE REGULATION | ±1.0% | | | | | | | | | | | | |
| | LOAD REGULATION | ±3.0% | | ±2.0% | | ±1.0% | | ±2.0% | | ±2.0% | | ±1.0% | | |
| INPUT | RATED DC INPUT | 12VDC | | · | | | | 48VDC | | | | | | |
| | VOLTAGE RANGE | 9.8 ~ 36VDC | | | | | | 22 ~ 72VDC | | | | | | |
| | EFFICIENCY (Typ.) | 76% | | 77% | | 77% | | 78% | | 77% | | 77% | | |
| | DC CURRENT | 1.4A/12VE | C | | · | | | 0.4A/48VDC | | | | | | |
| | SHUTDOWN IDLE CURRENT | 20mA/12VDC | | | | | | | | | | | | |
| PROTECTION | | Above 105% rated output power | | | | | | | | | | | | |
| | OVERLOAD | Protection type: Over power limiting, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| | OVER VOLTAGE(CLAMP) | 5.75~7.5V -5.75~-7.5V 13.8~18V -13.8~-18V 17.3~22.5V -17.3~22.5V 5.75~7.5V 5.75~-7.5V 13.8~18V -13.8~-18V 17.3~22.5V -17.3~22.5V -17. | | | | | | | | | | -17.3 ~ -22.5\ | | |
| | SHORT CIRCUIT Note.4 | Recovers automatically after fault condition is removed | | | | | | | | | | | | |
| FUNCTION | ON/OFF CONTROL | Logic "1" OPEN: ON logic "0" GND: OFF | | | | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +70°C | | | | | | | | | | | | |
| | WORKING HUMIDITY | 0% ~ 95% RH max. | | | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 0 ~ 95% RH | | | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~60°C) | | | | | | | | | | | | |
| | SAFETY STANDARDS | UL60950-1 approved, Design refer to TUV EN60950-1 | | | | | | | | | | | | |
| SAFETY & | ISOLATION VOLTAGE | I/P-O/P:1.5KVDC | | | | | | | | | | | | |
| EMC (Note 5) | ISOLATION RESISTANCE | I/P-O/P:100M Ohms/500VDC 25°C 70%RH | | | | | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | | | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,6,8; EN55024, light industry level, criteria A | | | | | | | | | | | | |
| OTHERS | MTBF | 1878.5K hrs min. MIL-HDBK-217F (25℃) | | | | | | | | | | | | |
| | DIMENSION | 50.8*25.4*10mm (2"*1"*0.394") (L*W*H) | | | | | | | | | | | | |
| | PACKING | 0.02Kg; 300pcs/7Kg/0.97CUFT | | | | | | | | | | | | |
| NOTE | All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Short circuit not more than 60 seconds. 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 the input line, a 47uF/100V electrolytic capacitor with Esr<1 Ω is used in the test. EMC filter suggestion: | | | | | | | | | | | | meets | |





70 (HORIZONTAL)

AMBIENT TEMPERATURE (°C)

CONTROL INPUT.....PIN6 CONTROL COMMON.....PIN2

ON.....+5.5VDC min. OR OPEN CIRCUIT

OFF.....+2.5VDC max. OR SHORT TO PIN2

CONTROL VOLTAGE

LOGIC COMPATIBILITY......CMOS OR OPEN COLLECTOR TTL