

**SPECIFICATION** 



## ■ Features :

- Wide 4:1 DC input range
- \* Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- · Cooling by free air convection
- \* Built-in remote ON-OFF control
- 100% full load burn-in test
- Low cost
- · High reliability
- 2 years warranty



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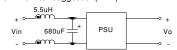
BS EN/EN6236

N62368-1 TPTC004 IFC62368-1

## MODEL NSD05-12S12 | NSD05-12S15 | NSD05-48S3 NSD05-12S5 NSD05-48S5 NSD05-48S12 NSD05-48S15 NSD05-12S3 DC VOLTAGE 3.3V 5V 12V 3.3V 5V 15V RATED CURRENT 1.2A 1A 0.42A 0.33A 1.2A 1A 0.42A 0.33A **CURRENT RANGE** 0~12A 0 ~ 1A 0 ~ 0.42A 0 ~ 0.33A 0 ~ 1.2A 0 ~ 1A 0~0.42A 0 ~ 0.33A RATED POWER 3 96W 5W 5 04W 4 95W 3.96W 5W 5.04W 4.95W OUTPUT **CAPACITIVE LOAD (max.)** 1000uF 1000uF 120uF 120uF 1000uF 1000uF 120uF 120uF RIPPLE & NOISE (max.) Note.2 75mVp-p **VOLTAGE TOLERANCE Note.3** $\pm 2.0\%$ max. LINE REGULATION ±1.0% LOAD REGULATION ±2.0% ±1.0% ±1.0% ±2.0% $\pm 1.0\%$ ±1.0% ±1.0% $\pm 1.0\%$ **SETUP TIME** 80ms/RATED DC INPUT at full Load RATED DC INPUT 12VDC 48VDC 9.2 ~ 36VDC **VOLTAGE RANGE** 18 ~ 72VDC EFFICIENCY (Typ.) 72% 76% 82% 83% 75% 78% 83% 85% INPUT 0.7A/12VDC 0.2A/48VDC DC CURRENT SHUTDOWN IDLE CURRENT 5mA/12VDC 5mA/48VDC Above 105% rated output power **OVERLOAD** Protection type: Over power limiting, recovers automatically after fault condition is removed **PROTECTION** OVER VOLTAGE(CLAMP) 5.6 ~ 6.8V 13.5 ~ 16.5V | 16.2 ~ 19.8V 3.8 ~ 4.6V 5.6 ~ 6.8V 13.5 ~ 16.5V 16.2 ~ 19.8V SHORT CIRCUIT Recovers automatically after fault condition is removed Logic "0" or short to PIN2 : OFF **FUNCTION** ON/OFF CONTROL Logic "1" or open circuit : ON -25 ~ +70°C WORKING TEMP. 0% ~ 95% RH max. **WORKING HUMIDITY ENVIRONMENT** STORAGE TEMP., HUMIDITY -40 ~ +85°C, 0 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0~60°C) TUV BS EN/EN62368-1,IEC62368-1 CB approved by TUV, EAC TP TC 004 approved SAFETY STANDARDS ISOLATION VOLTAGE I/P-O/P:1KVDC **SAFETY &** ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH **EMC** (Note 4) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020 **EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8; BS EN/EN55024, light industry level, criteria A, EAC TP TC 020 MTBF 914.4K hrs min. MIL-HDBK-217F (25°C) **DIMENSION OTHERS** 40.6\*25.4\*8.3mm (1.6"\*1"\*0.327") (L\*W\*H) 0.007Kg; 700pcs/5.9Kg/1.23CUFT **PACKING**

## NOTE

- 1. All parameters NOT specially mentioned are measured at 12, 48VDC 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. All the EMC tests are been executed by mounting the unit on a 230mm\*230mm metal plate with 1mm of thickness. 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)
- 5. To insure proper operation, a 47uF/100V electrolytic capacitor with Esr <1  $\Omega$  must be added to the input line. 6.EMC filter suggestion(TBD):



7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). \*\*Reproduct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



