

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ Features :

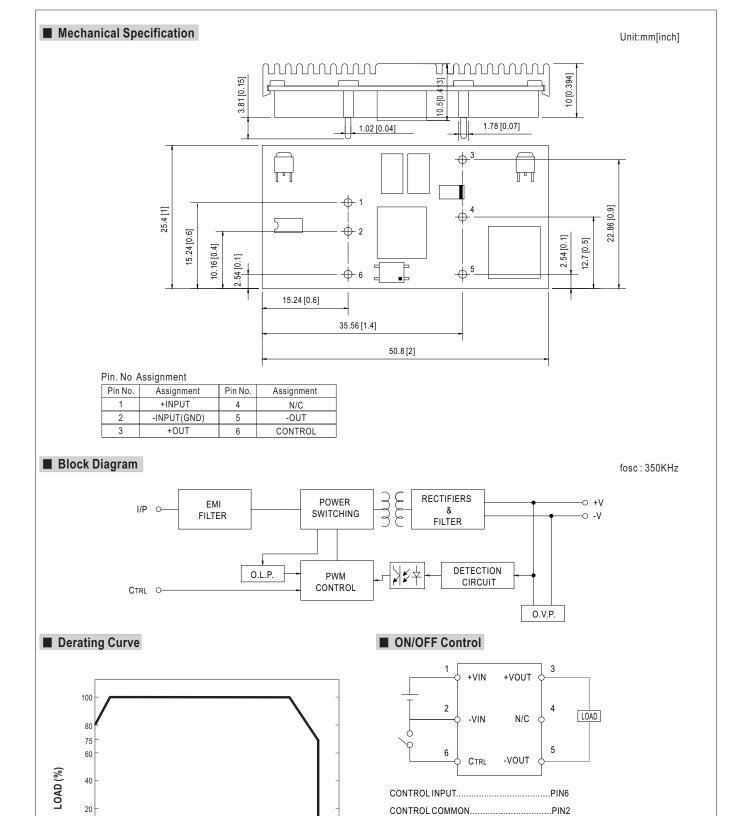
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Low cost
- High reliability
- 2 years warranty

SPECIFICATION



| | | NSD10-12S3 | NSD10-12S5 | NSD10-12S9 | NSD10-12S12 | NSD10-12S15 | NSD10-48S3 | NSD10-48S5 | NSD10-48S9 | NSD10-48S12 | NSD10-48S15 |
|-----------------|--|---|----------------|---------------|--------------|--------------|-------------|------------|-------------|--------------|----------------------------|
| ОИТРИТ | DC VOLTAGE | 3.3V | 5V | 9V | 12V | 15V | 3.3V | 5V | 9V | 12V | 15V |
| | RATED CURRENT | 2.5A | 2A | 1.1A | 0.83A | 0.67A | 2.5A | 2A | 1.1A | 0.83A | 0.67A |
| | CURRENT RANGE | 0.12 ~ 2.5A | 0.1 ~ 2A | 0.05 ~ 1.1A | 0.04 ~ 0.83A | 0.03 ~ 0.67A | 0.12 ~ 2.5A | 0.1 ~ 2A | 0.05 ~ 1.1A | 0.04 ~ 0.83A | 0.03 ~ 0.67A |
| | RATED POWER | 8.25W | 10W | 9.9W | 9.96W | 10.05W | 8.25W | 10W | 9.9W | 9.96W | 10.05W |
| | CAPACITIVE LOAD (max.) | 3300uF | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | | | | | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | | | | | | | | | | |
| | LINE REGULATION | ±1.0% | | | | | | | | | |
| | LOAD REGULATION | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | SETUP TIME | 100ms/RAT | ED DC INPU | Γat full Load | | | | | | | |
| INPUT | RATED DC INPUT | 12VDC | | | | | 48VDC | | | | |
| | VOLTAGE RANGE | 9.8 ~ 36VDC | | | | | 22 ~ 72VDC | | | | |
| | EFFICIENCY (Typ.) | 72% | 75% | 78% | 79% | 80% | 74% | 77% | 78% | 79% | 80% |
| | DC CURRENT | 1.4A/12VDC | <u> </u> | | | | 0.4A/48VDC | 2 | | | |
| | SHUTDOWN IDLE CURRENT | 20mA/12VDC | | | | | | | | | |
| PROTECTION | OVERLOAD | Above 105% rated output power | | | | | | | | | |
| | | Protection type: Over power limiting, recovers automatically after fault condition is removed | | | | | | | | | |
| | OVER VOLTAGE(CLAMP) | | | | | | | | | | 17.3 ~ 22.5\ |
| | SHORT CIRCUIT Note.4 | | utomatically a | | | | 0.0 | 0.10 | 1011 10101 | 1010 101 | 1110 2210 |
| 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, EAC TP TC 004 approved, Design refer to TUV EN60950-1 | | | | | | | | | |
| SAFETY & | ISOLATION VOLTAGE | I/P-O/P:1KVDC | | | | | | | | | |
| EMC (Note 5) | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020 | | | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,6,8; EN55024, light industry level, criteria A, EAC TP TC 020 | | | | | | | | | |
| OTHERS | MTBF | 2138.2K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | 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. All the EMC tests are been executed by mounting the unit o 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 perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1 Ω must be added to the input line. BOUH FOU F | | | | | | | | | | the unit on e on how to |





70 (HORIZONTAL)

AMBIENT TEMPERATURE (°C)

CONTROL VOLTAGE

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

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

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