

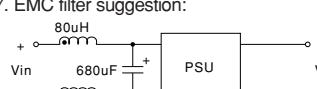


■ Features :

- 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
- Lost cost
- High reliability
- 2 years warranty

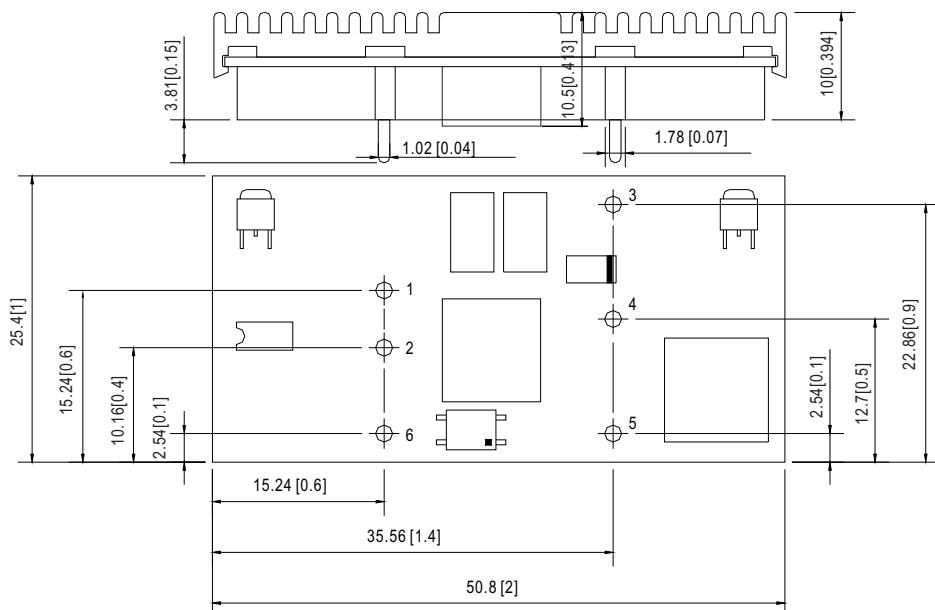


SPECIFICATION

MODEL	NSD10-12D5	NSD10-12D12	NSD10-12D15	NSD10-48D5	NSD10-48D12	NSD10-48D15																				
OUTPUT	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V													
	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 ~ 0.33A													
	RATED POWER	10W		10.08W		9.9W		10W		10.08W		9.9W														
	CAPACITIVE LOAD (max.)	±1000uF																								
	ripple & noise (max.) Note.2	75mVp-p(10% ~ 100% load)																								
	VOLTAGE TOLERANCE Note.3	±4.0%		±2.5%		±2.5%		±3.0%		±2.5%		±2.5%														
	LINE REGULATION	±1.0%																								
	LOAD REGULATION	±3.0%		±2.0%		±1.0%		±2.0%		±2.0%		±1.0%														
	SETUP TIME	100ms/RATED DC INPUT at full Load																								
INPUT	RATED DC INPUT	12VDC			48VDC																					
	VOLTAGE RANGE	9.8 ~ 36VDC			22 ~ 72VDC																					
	EFFICIENCY (Typ.)	76%	77%	77%	78%	77%	77%	78%	77%	77%	77%	77%	77%													
	DC CURRENT	1.4A/12VDC			0.4A/48VDC																					
	SHUTDOWN IDLE CURRENT	20mA/12VDC																								
PROTECTION	OVERLOAD	Above 105% rated output power																								
	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													
	SHORT CIRCUIT Note.4	Recover 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 & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, EAC TP TC 004 approved, Design refer to TUV EN62368-1																								
	ISOLATION VOLTAGE	I/P-O/P:1KVDC																								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH																								
OTHERS	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																								
	MTBF	1878.5K hrs min. MIL-HDBK-217F (25°C)																								
NOTE	DIMENSION	50.8*25.4*10mm (2.0*1.0*0.394") (L*W*H)																								
	PACKING	0.02Kg; 300pcs/7Kg/0.97CUFT																								
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. Short circuit not more than 60 seconds.																										
5. 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)																										
6. To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1Ω must be added to the input line.																										
7. EMC filter suggestion:																										
																										
8. 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).																										

■ Mechanical Specification

Unit:mm[inch]

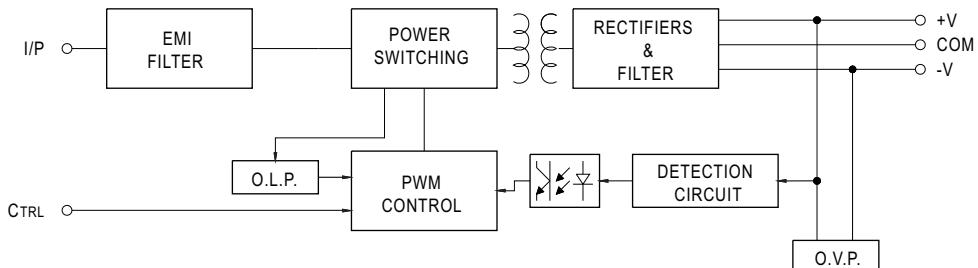


Pin. No Assignment

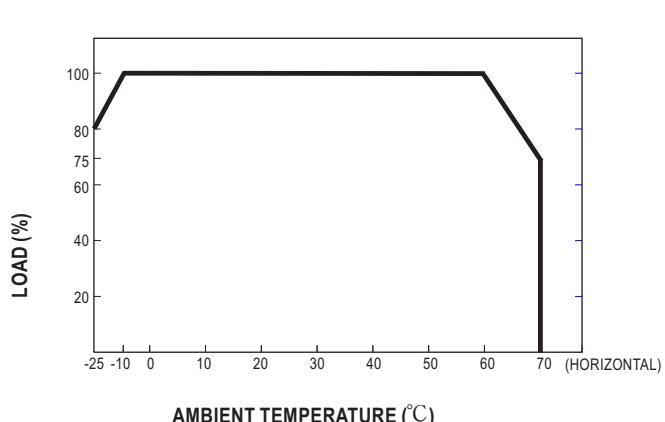
Pin No.	Assignment	Pin No.	Assignment
1	+INPUT	4	COMMON
2	-INPUT(GND)	5	-OUT
3	+OUT	6	CONTROL

■ Block Diagram

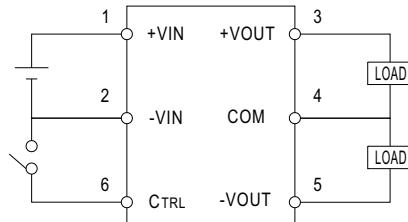
fosc : 350KHz



■ Derating Curve



■ ON/OFF Control



CONTROL INPUT.....PIN6

CONTROL COMMON.....PIN2

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

CONTROL VOLTAGE

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

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

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