



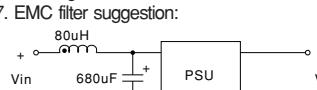
■ Features :

- 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
- Output voltage trimming function
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

■ GTIN CODE

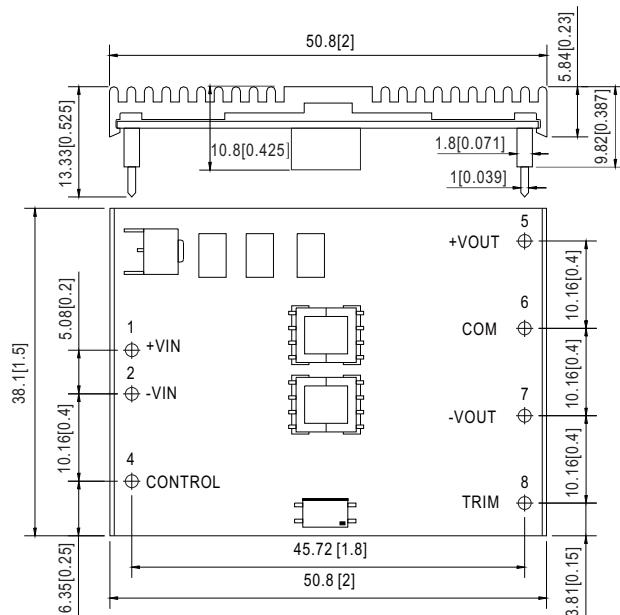
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SPECIFICATION

MODEL	NSD15-12D5		NSD15-12D12		NSD15-12D15		NSD15-48D5		NSD15-48D12		NSD15-48D15												
OUTPUT	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V										
	RATED CURRENT	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A										
	CURRENT RANGE	0.07 ~ 1.5A	0.07 ~ 1.5A	0.03 ~ 0.62A	0.03 ~ 0.62A	0.02 ~ 0.5A	0.02 ~ 0.5A	0.07 ~ 1.5A	0.07 ~ 1.5A	0.03 ~ 0.62A	0.03 ~ 0.62A	0.02 ~ 0.5A	0.02 ~ 0.5A										
	RATED POWER	15W		14.88W		15W		15W		14.88W		15W											
	CAPACITIVE LOAD (max.)	±1000μF																					
	ripple & noise (max.) Note.2	100mVp-p(25% ~ 100% load)																					
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.5%	±2.5%	±2.5%	±3.0%	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%											
	LINE REGULATION	±1.0% at 10% ~ 100% load																					
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%											
INPUT	TRIM OUTPUT (Typ.)	±5.0%	±5.0%	±3.0%	±5.0%	±3.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%											
	SETUP TIME	100ms/RATED DC INPUT at full Load																					
	RATED DC INPUT	12VDC				48VDC																	
	VOLTAGE RANGE Note.6	9.4 ~ 36VDC				18 ~ 72VDC																	
	EFFICIENCY (Typ.)	76%	80%	80%	80%	80%	84%	84%	84%	84%	84%	84%											
	DC CURRENT	1.8A/12VDC				0.4A/48VDC																	
	SHUTDOWN IDLE CURRENT	20mA																					
PROTECTION	OVERLOAD	Above 105% rated output power Protection type : Over power limiting, recovers automatically after fault condition is removed																					
	OVER VOLTAGE(CLAMP)	7.25 ~ 9V	-7.25 ~ -9V	13.8 ~ 18V	-13.8 ~ -18V	17.3 ~ 22.5V	-17.3 ~ -22.5V	7.25 ~ 9V	-7.25 ~ -9V	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" or open circuit : ON Logic "0" or short to PIN2 : OFF																					
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C																					
	WORKING HUMIDITY	0% ~ 95% RH max.																					
SAFETY & EMC (Note 5)	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH																					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)																					
OTHERS	SAFETY STANDARDS	UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1																					
	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC																					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH																					
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020																					
NOTE	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020																					
	MTBF	9469.6K hrs min. Telcordia SR-332 (Bellcore) ; 1673.2K hrs min. MIL-HDBK-217F (25°C)																					
	DIMENSION	50.8*38.1*9.82mm (2**1.5**0.387") (L*W*H)																					
NOTE	PACKING	0.03Kg; 180pcs/6.4Kg/0.94CUFT																					
	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 0.1 μF & 47 μF parallel capacitor.																					
	3.	Tolerance : includes set up tolerance, line regulation and load regulation.																					
	4.	Short circuit no 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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)																					
	6.	Derating to 80% load is needed for NSD15-48D series at 18Vdc input voltage. Full output wattage can be acquired when the input voltage is higher than 20Vdc.																					
	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).																							
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																							

■ Mechanical Specification

Unit:mm[inch]

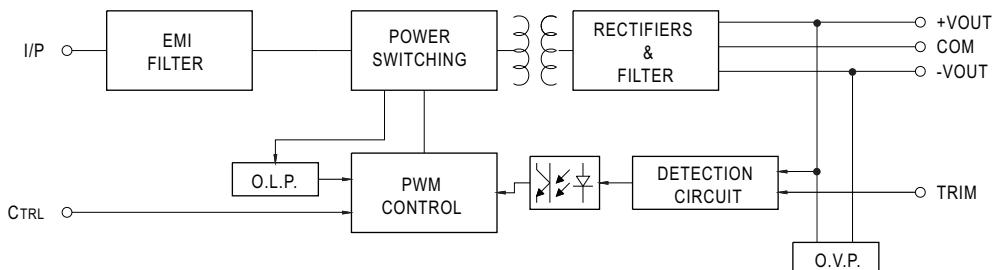


Pin No. Assignment

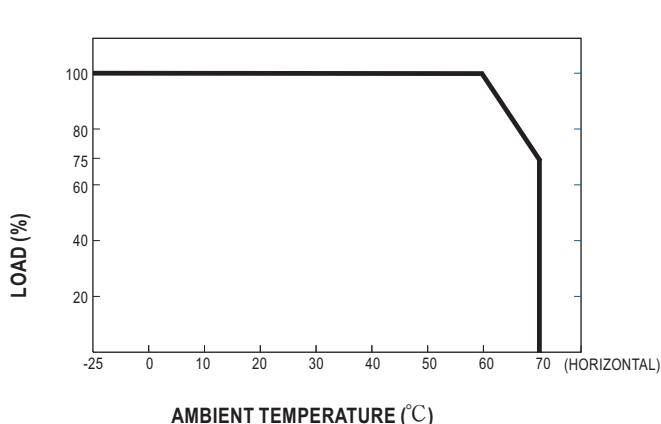
Pin No.	Assignment	Pin No.	Assignment
1	+VIN	5	+VOUT
2	-VIN	6	COMMON
3	No Pin	7	-VOUT
4	CONTROL	8	TRIM

■ Block Diagram

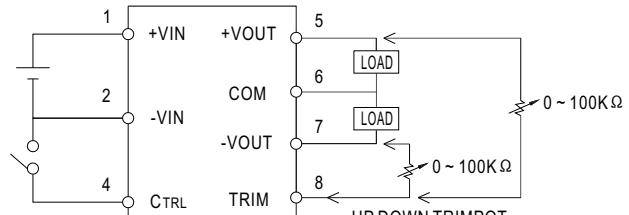
fosc : 400KHz



■ Derating Curve



■ ON/OFF Control & Output Trim



CONTROL INPUT.....PIN4

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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