

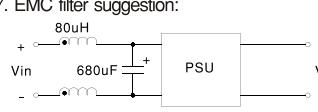


■ Features :

- 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
- Low cost
- High reliability
- 2 years warranty

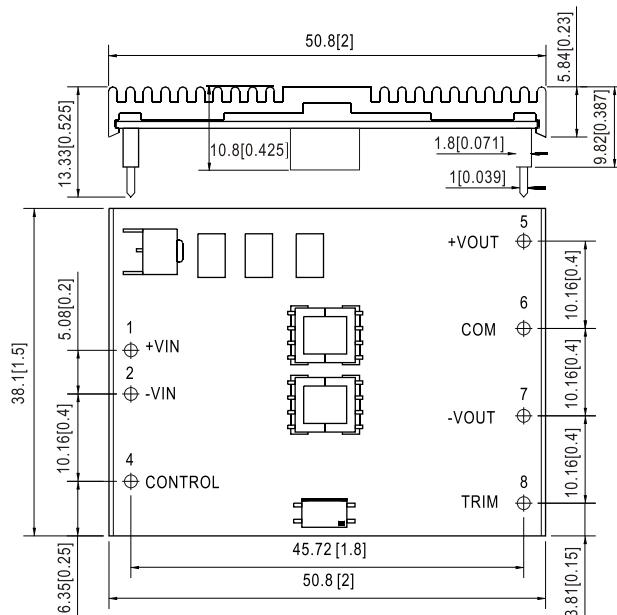


SPECIFICATION

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.)	±1000uF																		
	RIPPLE & NOISE (max.) Note.2	100mVp-p(25% ~ 100% load)																		
	VOLTAGE TOLERANCE Note.3	±3.0%		±2.5%		±2.5%		±3.0%		±2.5%		±2.5%								
	LINE REGULATION	±1.0% at 10% ~ 100% load																		
	LOAD REGULATION	±2.0%		±1.0%		±1.0%		±2.0%		±1.0%		±1.0%								
INPUT	TRIM OUTPUT (Typ.)	±5.0%		±5.0%		±3.0%		±5.0%		±5.0%		±3.0%								
	RATED DC INPUT	12VDC				48VDC														
	VOLTAGE RANGE Note.6	9.4 ~ 36VDC				18 ~ 72VDC														
	EFFICIENCY (Typ.)	76%	80%		80%		80%	84%		84%										
	DC CURRENT	1.8A/12VDC				0.4A/48VDC														
PROTECTION	SHUTDOWN IDLE CURRENT	20mA																		
	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							
FUNCTION	SHORT CIRCUIT Note.4	Recovering automatically after fault condition is removed																		
	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.																		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH																		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)																		
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL60950-1 approved, Design refer to TUV EN60950-1																		
	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC																		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH																		
OTHERS	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B																		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; EN55024, light industry level, criteria A																		
	MTBF	1673.1K hrs min. MIL-HDBK-217F (25°C)																		
NOTE	DIMENSION	50.8*38.1*9.82mm (2*1.5*0.387") (L*W*H)																		
	PACKING	0.03Kg; 180pcs/6.4Kg/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 no more than 60 seconds. 5. 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 guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (available on http://www.meanwell.com) 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:																				
																				

■ Mechanical Specification

Unit:mm[inch]

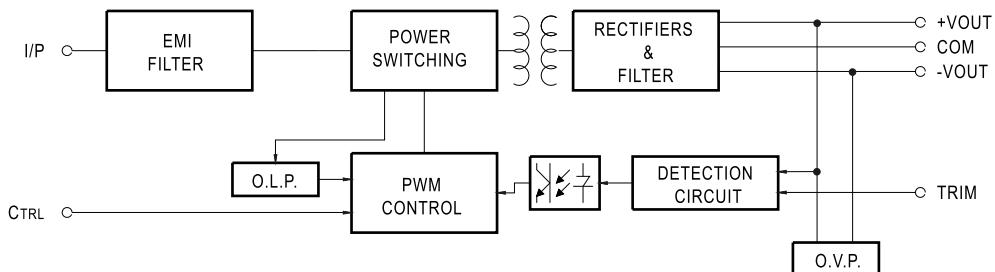


Pin No. Assignment

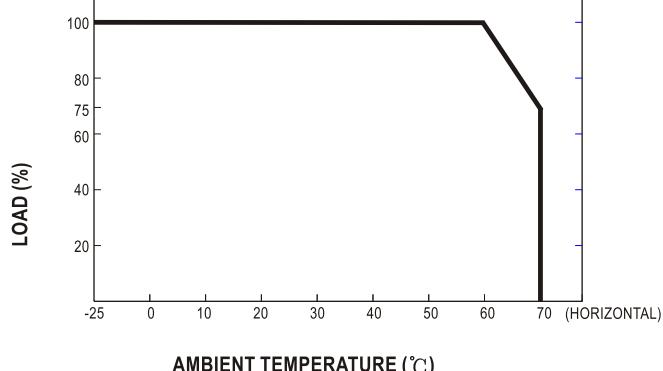
Pin No.	Assignment	Pin No.	Assignment
1	+VIN	5	+VOUT
2	-VIN	6	COMMON
3	No Pin	7	-VOUT
4	CONTROL	8	TRIM

■ Block Diagram

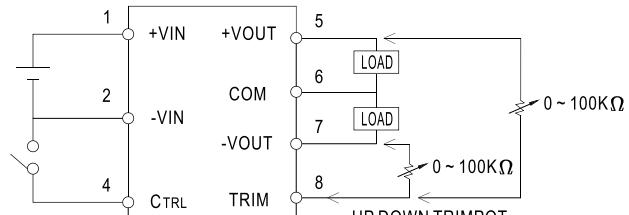
fosc : 400KHz



■ 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