



## **■** GTIN CODE

**SPECIFICATION** 

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### ■ 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

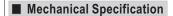


MODEL		NSD15-12D5		NSD15-12D12		NSD15-12D15		NSD15-48D5		NSD15-48D12		NSD15-48D15	
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V
	RATED CURRENT	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A	1.5A	1.5A	0.62A	0.62A	0.5A	0.5A
OUTPUT	CURRENT RANGE	0.07 ~ 1.5A	0.07 ~ 1.5A	0.03 ~ 0.62A	0.03 ~ 0.62A	0.02 ~ 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%	
	TRIM OUTPUT (Typ.)	±5.0%		±5.0%		±3.0%		±5.0%		±5.0%		±3.0%	
	SETUP TIME	100ms/RA	ATED DC II	NPUT at ful	I Load								
	RATED DC INPUT	12VDC				0.5A   0.5A   1.5A   0.02 ~ 0.5A   0.07   0.02 ~ 0.5A   0.07   0.07   0.5W   15W   15W   15W   15W   15W   15W   15W   15W   15W   16W   18 ~ 0.07   18 ~ 0.07   16W   18 ~ 0.07   18 ~ 0.07   16W   18 ~ 0.07   18 ~ 0.07   16W   18 ~ 0.07   18 ~ 0.	48VDC						
	VOLTAGE RANGE Note.6	9.4 ~ 36VI	OC .					18 ~ 72VDC					
INPUT	EFFICIENCY (Typ.)	76%		80%		80%		80%		84%		84%	
	DC CURRENT	1.8A/12VI	OC					0.4A/48VDC					
	SHUTDOWN IDLE CURRENT	20mA											
PROTECTION	OVERLOAD	Above 105% rated output power											
	OVERLOAD	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 Recovers 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.											
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 0 ~ 95% RH ±0.03%/C (0~50°C)										
	TEMP. COEFFICIENT						DO ENVEN	100000 4					
0.45571/.0	ISOLATION VOLTAGE			TC 004 app	proved, De	sign refer to	BS EN/EN	62368-1					
SAFETY &		I/P-0/P:1.5KVDC											
EMC (Note 5)	EMC EMISSION	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020											
( )	EMC IMMUNITY	'			,	<i>'</i>			try lovel	EAC TD TO	2 020		
	MTBF	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020  9469.6K hrs min. Telcordia SR-332 (Bellcore); 1673.2K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	50.8*38.1*9.82mm (2"*1.5"*0.387") (L*W*H)											
	PACKING		0.03Kg; 180pcs/6.4Kg/0.94CUFT										
NOTE	1. All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature.												
NOTE	3. Tolerance: includes set up t 4. Short circuit no more than 60 5. The power supply is conside 230mm*230mm metal plate these EMC tests, please refe 6. Derating to 80% load is need 7. EMC filter suggestion: 80uH	80uH											

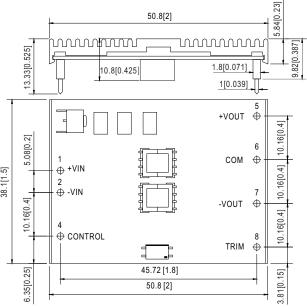
8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

% Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





(Unit:mm[inch], Tolerance:±1[±0.04])

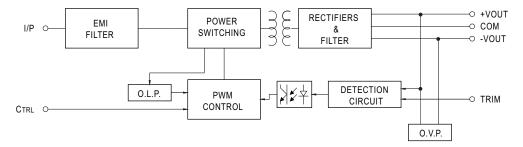


Pin No. Assignment

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

# 100 80 75 60 20 -25 0 10 20 30 40 50 60 70 (HORIZONTAL) AMBIENT TEMPERATURE (°C)

### ■ ON/OFF Control & Output Trim

