



■ GTIN CODE

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

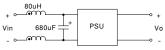
■ Features :

- 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



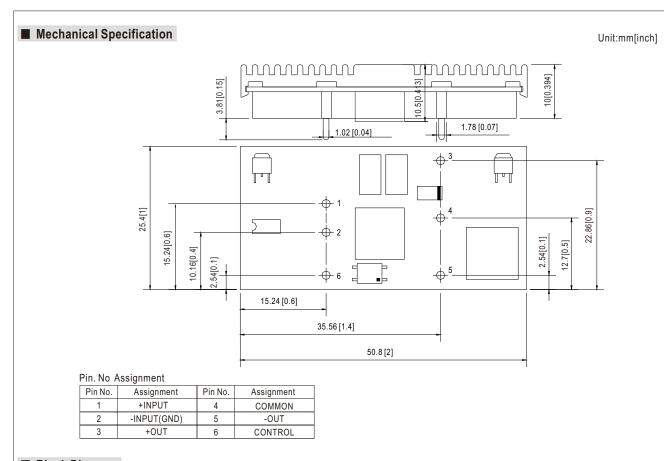
MODEL		NSD10-12D5		NSD10-12D12		NSD10-12D15		NSD10-48D5		NSD10-48D12		NSD10-48D15	
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V
	RATED CURRENT	1A	1A	0.42A	0.42A	0.33A	0.33A	1A	1A	0.42A	0.42A	0.33A	0.33A
	CURRENT RANGE	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.33A	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.33
	RATED POWER	10W 1		10.08W		9.9W		10W		10.08W		9.9W	
OUTPUT	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/R/	ATED DC II	PUT at full Load									
INPUT	RATED DC INPUT	12VDC						48VDC					
	VOLTAGE RANGE	9.8 ~ 36VI	OC .					22 ~ 72VD	C				
	EFFICIENCY (Typ.)	76%		77%		77%		78%		77%		77%	
	DC CURRENT	1.4A/12VI	OC .					0.4A/48VDC					
	SHUTDOWN IDLE CURRENT	20mA/12VDC											
PROTECTION		Above 105% rated output power											
	OVERLOAD	Protection type: Over power limiting, recovers automatically after fault condition is removed											
	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	,											
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	UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1											
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC											
EMC (Note 5)	ISOLATION RESISTANCE	\(\frac{1}{P}\text{-0/P:100M Ohms / 500VDC / 25°C / 70% RH}\)											
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020											
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020											
OTHERS	MTBF	12288.5K hrs min. Telcordia SR-332 (Bellcore) ; 1878.5K hrs min. MIL-HDBK-217F (25°C)											
	DIMENSION		50.8*25.4*10mm (2"*1"*0.394") (L*W*H) 0.02Kg; 300pcs/7Kg/0.94CUFT										
NOTE	PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up	ly mentioned at 20MH tolerance,	ed are mea z of bandw line regulat	sured at 1	ng a 12" tv	visted pair-v					capacitor.		
	Short circuit not more than 6 The power supply is conside a 230mm*230mm metal pla perform these EMC tests, p	ered a com	ponent wh m of thickn	ess. The fi	nal equipm	ent must b	e re-confirr	ned that it	still meets	EMC direct	tives. For g		

- perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://w 6. To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1 Ω must be added to the input line.
- 7. EMC filter suggestion:



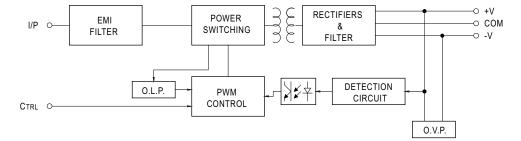
- 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







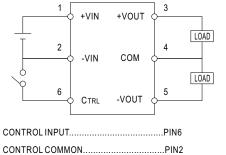
fosc: 350KHz



■ Derating Curve

100 80 75 60 LOAD (%) 40 20 70 (HORIZONTAL) AMBIENT TEMPERATURE (°C)

■ ON/OFF Control



CONTROL INPUT.....PIN6

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

CONTROL VOLTAGE

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

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