



■ GTIN CODE

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

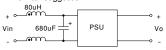
■ Features :

- 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
- Low cost
- High reliability
- 2 years warranty



MODEL		NSD15-12S3	NSD15-12S5	NSD15-12S12	NSD15-12S15	NSD15-48S3	NSD15-48S5	NSD15-48S12	NSD15-48S15	
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	3.3V	5V	12V	15V	
	RATED CURRENT	3.75A	3A	1.25A	1A	3.75A	3A	1.25A	1A	
	CURRENT RANGE	0.18 ~ 3.75A	0.15 ~ 3A	0.06 ~ 1.25A	0.05 ~ 1A	0.18 ~ 3.75A	0.15 ~ 3A	0.06 ~ 1.25A	0.05 ~ 1A	
	RATED POWER	12.375W	15W	15W	15W	12.375W	15W	15W	15W	
	CAPACITIVE LOAD (max.)	3300uF								
	RIPPLE & NOISE (max.) Note.2	100mVp-p(25% ~ 100% load) for 3.3V only 75mVp-p(25% ~ 100% load)								
	VOLTAGE TOLERANCE Note.3	±2.0%								
	LINE REGULATION	±1.0% at 10% ~ 100% load								
	LOAD REGULATION	±1.0% at 10% ~ 100% load								
	TRIM OUTPUT (Typ.)	+10%	±5.0%	±5.0%	±3.0%	+10%	±5.0%	±5.0%	±3.0%	
	SETUP TIME	100ms/RATED DC INPUT at full Load								
INPUT	RATED DC INPUT	12VDC				48VDC				
	VOLTAGE RANGE	9.4 ~ 36VDC				18 ~ 72VDC				
	EFFICIENCY (Typ.)	73%	77%	81%	81%	77%	81%	84%	85%	
	DC CURRENT	1.8A/12VDC 0.4A/48VDC								
	SHUTDOWN IDLE CURRENT	20mA								
PROTECTION	OVER OAR	Above 105% rated output power								
	OVERLOAD	Protection type: Over power limiting, recovers automatically after fault condition is removed								
	OVER VOLTAGE(CLAMP)	5.8 ~ 6.93V	5.8 ~ 7.5V	13.8 ~ 18V	17.25 ~ 22.5V	5.61 ~ 6.93V	5.5 ~ 7.5V	13.8 ~ 18V	17.25 ~ 22.5\	
	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								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	SAFETY STANDARDS	UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1								
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC								
EMC (Note 5)	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								
	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	12058.3K hrs min. Telcordia SR-332 (Bellcore) ; 1734.0K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	50.8*38.1*9.82	50.8*38.1*9.82mm (2"*1.5"*0.387") (L*W*H)							
	PACKING	0.03Kg; 180pcs/6.4Kg/0.94CUFT								

- 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. 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. Derating to 80% load is needed for NSD15-48S 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



