

10W DC-DC Regulated Single Output

NSD10-S series



GTIN CODE

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

SPECIFICATION

- 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
- Low cost
- High reliability
- 2 years warranty



MODEL		NSD10-12S3	NSD10-12S5	NSD10-12S9	NSD10-12S12	NSD10-12S15	NSD10-48S3	NSD10-48S5	NSD10-48S9	NSD10-48S12	NSD10-48S15
	DC VOLTAGE	3.3V	5V	9V	12V	15V	3.3V	5V	9V	12V	15V
OUTPUT	RATED CURRENT	2.5A	2A	1.1A	0.83A	0.67A	2.5A	2A	1.1A	0.83A	0.67A
	CURRENT RANGE	0.12~2.5A	0.1~2A	0.05 ~ 1.1A	0.04 ~ 0.83A	0.03 ~ 0.67A	0.12~2.5A	0.1~2A	0.05 ~ 1.1A	0.04 ~ 0.83A	0.03 ~ 0.67A
	RATED POWER	8.25W	10W	9.9W	9.96W	10.05W	8.25W	10W	9.9W	9.96W	10.05W
	CAPACITIVE LOAD (max.)	3300uF									
	RIPPLE & NOISE (max.) Note.2										
	VOLTAGE TOLERANCE Note.3										
	LINE REGULATION	±1.0%									
	LOAD REGULATION	±2.0% ±1.0% ±1.0% ±1.0%					±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP TIME										
INPUT	RATED DC INPUT	100ms/RATED DC INPUT at full Load 12VDC 48VDC									
	VOLTAGE RANGE	9.8 ~ 36VDC					22 ~ 72VDC				
	EFFICIENCY (Typ.)	72%	75%	78%	79%	80%	74%	77%	78%	79%	80%
	DC CURRENT	1.4A/12VDC				0070	0.4A/48VD0		1.070		00,0
	SHUTDOWN IDLE CURRENT	20mA/12VDC									
	UND ID UNIT DEL UURICENT										
PROTECTION	OVERLOAD	Above 105% rated output power Protection type : Over power limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE(CLAMP)		· ·	U .		17.3 ~ 22.5V			1	12.0~10\/	17.3 ~ 22.5V
				fter fault cond			3.0~4.95V	5.75~7.50	10.4~15.50	13.0~100	11.5~22.50
FUNCTION	ON/OFF CONTROL					/eu					
ENVIRONMENT		Logic "1" OPEN: ON logic "0" GND: OFF -25 ~ +70°C									
	WORKING TEMP. WORKING HUMIDITY	-25~+700 0%~95% RH max.									
		-40 ~ +85°C. 0 ~ 95% RH									
	STORAGE TEMP., HUMIDITY										
SAFETY & EMC (Note 5)	TEMP. COEFFICIENT	±0.03%/C (0~60°C)									
	SAFETY STANDARDS	UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1 I/P-O/P:1KVDC									
	ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMC IMMUNITY	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020									
	MTBF	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020									
OTHERS		12058.3K hrs min. Telcordia SR-332 (Bellcore) ; 2138.0K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	50.8*25.4*10mm (2"*1"*0.394") (L*W*H)									
	PACKING	0.02Kg; 300pcs/7Kg/0.94CUFT ers NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature.									
NOTE	 Ripple & noise are measure Tolerance : includes set up Short circuit not more than 0 The power supply is considing a 230mm*230mm metal plate perform these EMC tests, p (as available on https://www To insure proper operation, EMC filter suggestion: 	ed at 20MHz tolerance, lin 60 seconds. ered a comp the with 1mm lease refer to meanwell.cc a 220uF/100 + vo - erating of 3.5	of bandwidth e regulation onent which of thickness o "EMI testing om//Upload/F V electrolytic	 by using a 'and load reg will be install The final ecg of compone 'DF/EMI_stat capacitor wi 	12" twisted p: ulation. ed into a fina juipment mus ent power suj tement_en.pc ith Esr <1 Ω	air-wire termin I equipment. to be re-confir oplies." If) must be adde 5°C/1000m v	All the EMC rmed that it s ed to the inpu	0.1 μ F & 47 tests are be- ttill meets EN ut line.	μ F parallel of en executed IC directives.	by mounting For guidance	e on how to



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