

10W DC-DC Regulated Single Output

NSD10-S series



- 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

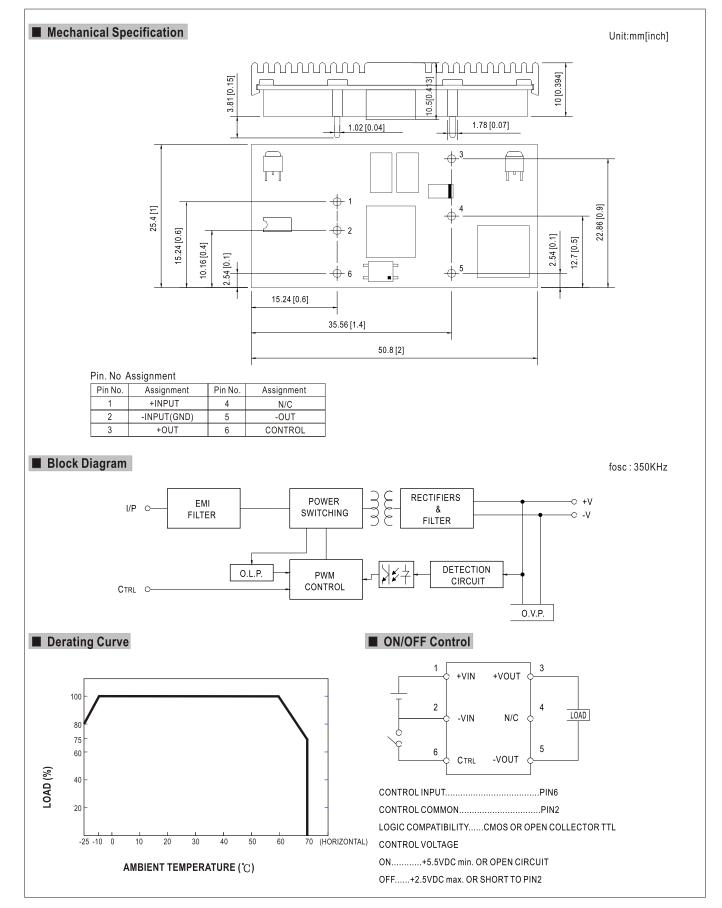


SPECIFICATION

MODEL		NSD10-12S3	NSD10-12S5	NSD10-12S9	NSD10-12S12	NSD10-12S15	NSD10-48S3	NSD10-48S5	NSD10-48S9	NSD10-48S12	NSD10-48S1
OUTPUT	DC VOLTAGE	3.3V	5V	9V	12V	15V	3.3V	5V	9V	12V	15V
	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 ~ 0.67
	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	75mVp-p									
	VOLTAGE TOLERANCE Note.3										
	LINE REGULATION	±1.0%									
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
INPUT	RATED DC INPUT	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 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)	3.8~4.95V	5.75 ~ 7.5V	10.4 ~ 13.5V	13.8 ~ 18V	17.3 ~ 22.5V	3.8~4.95V	5.75~7.5V	10.4 ~ 13.5V	13.8 ~ 18V	17.3 ~ 22.5
	SHORT CIRCUIT Note.4	Recovers au	utomatically a	fter fault cond	lition is remo	/ed					
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 UL60950-1 approved, Design refer to TUV EN60950-1										
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC									
EMC (Note 5)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
	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									
OTHERS	MTBF	2138.2K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION		0mm (2"*1"*0	/ \	H)						
	PACKING		pcs/7Kg/0.97								
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up Short circuit not more than The power supply is consid EMC directives. For guidan (as available on http://www To insure proper operation, EMC filter suggestion: 80uH * * * * * * * * * * * * * * * * * * *	ed at 20MHz tolerance, lin 60 seconds. lered a comp ce on how to .meanwell.co	of bandwidth e regulation onent which perform the m) V electrolytic	and load reg will be install se EMC tests	2" twisted pulation. ed into a fina , please refe	air-wire termii I equipment. r to "EMI tes	nated with a The final equ ting of comp	0.1uf & 47uf uipment must	parallel capa t be re-confir		ill meets



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File Name:NSD10-S-SPEC 2014-07-11