





## Features:

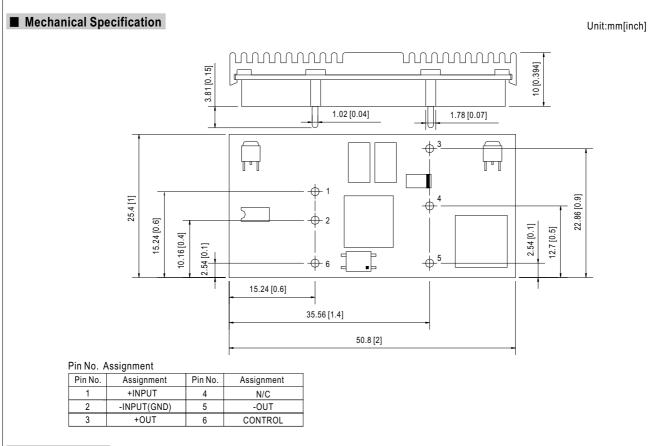
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability

## **SPECIFICATION**

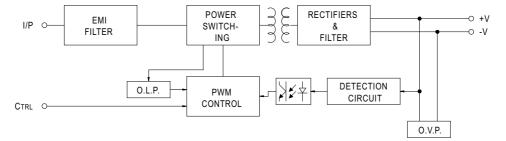
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MODEL		NSD10-12S3	NSD10-12S5	NSD10-12S9	NSD10-12S12	NSD10-12S15	NSD10-48S3	NSD10-48S5	NSD10-48S9	NSD10-48S12	NSD10-48S1
ОИТРИТ	DC VOLTAGE	3.3V	5V	9V	12V	15V	3.3V	5V	9V	12V	15V
	RATED CURRENT	2.5A	2A	1.1A	0.83A	0.67A	2.5A	2A	1.1A	0.83A	0.67A
	CURRENT 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
	RIPPLE & NOISE (max.) Note.2									1	
	VOLTAGE TOLERANCE Note.3										
	LINE REGULATION	±1.0%									
	LOAD REGULATION Note.4	±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 ~ 22.5V   10.4 ~ 13.5V   10.4 ~ 13.5V									
	SHORT CIRCUIT						0.0	00	1011 10101	10.0	11.0 22.0
FUNCTION	ON/OFF CONTROL	Recovers automatically after fault condition is removed  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	Design refer to UL60950-1, TUV EN60950-1									
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC									
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC 25°C 70%RH									
(Note 5)		Compliance to EN55022 (CISPR22) Class B									
	EMS 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	25.4*50.8*10mm (1"*2"*0.394") (L*W*H)									
	PACKING	0.02Kg; 300pcs/7Kg/0.97CUFT									
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 the input line, a 47uF/11     7.EMC filter suggestion:	ed at 20MHz tolerance, lir 60 second. ered a comp	of bandwidtl ne regulation onent which	n by using a and load reg	12" twisted paulation. ed into a fina	air-wire termir I equipment.	nated with a	0.1uf & 47uf	parallel capa		ill meets

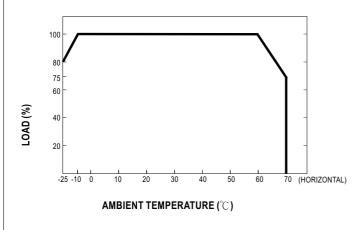




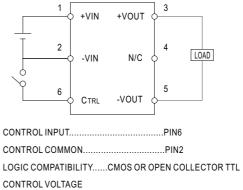
■ Block Diagram



## **■** Derating Curve



## ■ ON/OFF Control



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

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