



## Features:

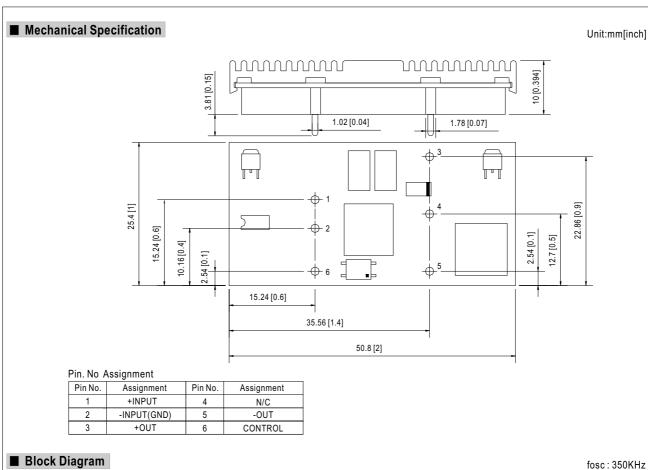
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

## **SPECIFICATION**

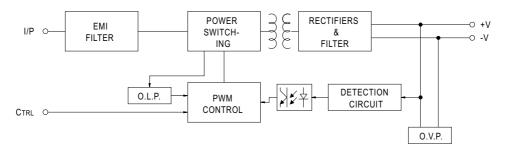


MODEL		NSD10-12S3	NSD10-12S5	NSD10-12S9	NSD10-12S12	NSD10-12S15	NSD10-48S3	NSD10-48S5	NSD10-48S9	NSD10-48S12	NSD10-48S15
OUTPUT	DC VOLTAGE	3.3V	5V	9V	12V	15V	3.3V	5V	9V	12V	15V
	RATED CURRENT	2.5A	2A	1.1A	0.83A	0.67A	2.5A	2A	1.1A	0.83A	0.67A
	CURRENT RANGE	0.12 ~ 2.5A	0.1 ~ 2A	0.05 ~ 1.1A	0.04 ~ 0.83A	0.03 ~ 0.67A	0.12 ~ 2.5A	0.1 ~ 2A	0.05 ~ 1.1A	0.04 ~ 0.83A	0.03 ~ 0.67A
	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	75mVp-p									
	VOLTAGE TOLERANCE Note.3	±2.0% max.									
	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/12VD0	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
	SHORT CIRCUIT Note.4	Recovers at	utomatically a	fter fault cond	dition is remov	/ed			•		·
FUNCTION	ON/OFF CONTROL	Logic "1" OPEN: ON logic "0" GND: OFF									
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°℃									
	WORKING HUMIDITY	0% ~ 95% RH max.									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0~60℃)									
	SAFETY STANDARDS	NDARDS UL60950-1 approved, Design refer to TUV EN60950-1									
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									
	EMI CONDUCTION & RADIATION	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	50.8*25.4*1	0mm (2"*1"*0	.394") (L*W*I	H)						
	PACKING	0.02Kg; 300	pcs/7Kg/0.97	CUFT							
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Short circuit not more than 60 seconds.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> <li>For the input line, a 220uF/100V electrolytic capacitor with Esr&lt;1 Ω is used in the test.</li> <li>EMC filter suggestion:</li> </ol>										

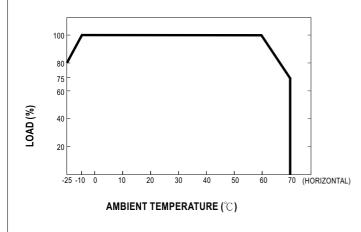








## **■** Derating Curve



## ■ ON/OFF Control

