



■ Features :

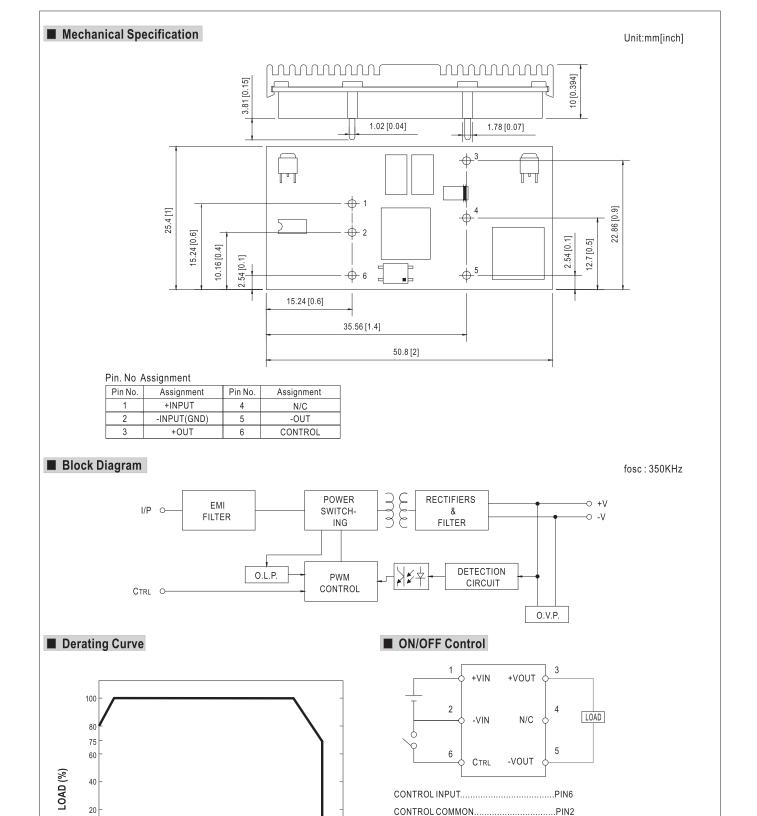
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

SPECIFICATION



MODEL		NSD10-12S3	NSD10-12S5	NSD10-12S9	NSD10-12S12	NSD10-12S15	NSD10-48S3	NSD10-48S5	NSD10-48S9	NSD10-48S12	NSD10-48S15	
	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	
OUTPUT	CAPACITIVE LOAD (max.)	3300uF								·		
	RIPPLE & NOISE (max.) Note.2	75mVp-p										
	VOLTAGE TOLERANCE Note.3	±12.0% max.										
	LINE REGULATION	+11.0%										
	LOAD REGULATION	+12.0%	+11.0%	+11.0%	+11.0%	+11.0%	+12.0%	+11.0%	+11.0%	+11.0%	+11.0%	
	RATED DC INPUT							48VDC				
INPUT	VOLTAGE RANGE	9.8 ~ 36VDC	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										
		Above 105% rated output power										
PROTECTION	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%/°C (0~60°C)										
	SAFETY STANDARDS	UL60950-1 approved, Design refer to TUV EN60950-1										
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC										
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC 25°C 70%RH										
(Note 5)	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										
	MTBF	2138.2K hrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	50.8*25.4*1	0mm (2"*1"*0).394") (L*W*	H)							
	PACKING	0.	pcs/7Kg/0.97									
NOTE	 All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Short circuit not more than 60 seconds. 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. For the input line, a 220uF/100V electrolytic capacitor with Esr<1 Ω is used in the test. EMC filter suggestion: 											





70 (HORIZONTAL)

CONTROL VOLTAGE

60

AMBIENT TEMPERATURE (°C)

LOGIC COMPATIBILITY......CMOS OR OPEN COLLECTOR TTL

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

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