



Features:

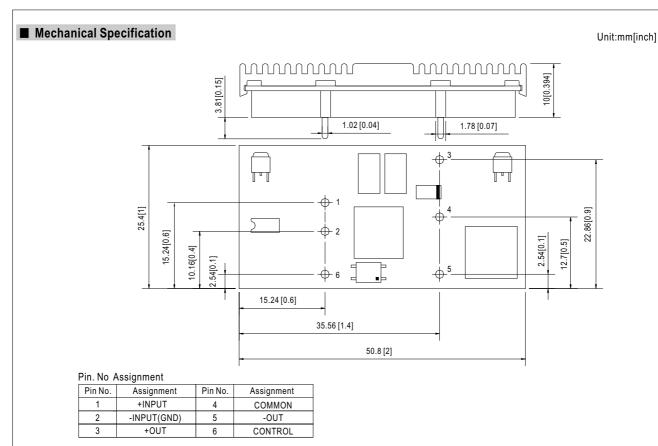
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

SPECIFICATION



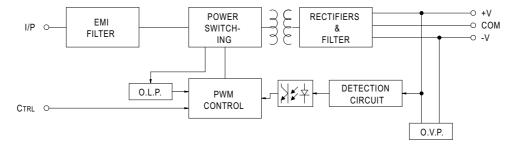
MODEL		NSD10-12D5		NSD10-12D12		NSD10-12D15		NSD10-48D5		NSD10-48D12		NSD10-48D15		
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V	
ОИТРИТ	RATED CURRENT	1A	1A	0.42A	0.42A	0.33A	0.33A	1A	1A	0.42A	0.42A	0.33A	0.33A	
	CURRENT RANGE	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.33A	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.33/	
	RATED POWER	10W												
	CAPACITIVE LOAD (max.)	±1000uF												
	RIPPLE & NOISE (max.) Note.2	75mVp-p(10% ~ 100% load)												
	VOLTAGE TOLERANCE Note.3	±4.0%		±2.0%		±2.0%		±3.0%		±2.0%		±2.0%		
	LINE REGULATION	±1.0%												
	LOAD REGULATION	±3.0%		±2.0%		±1.0%		±2.0%		±2.0%		±1.0%		
INPUT	RATED DC INPUT	12VDC						48VDC						
	VOLTAGE RANGE	9.8 ~ 36VDC						22 ~ 72VDC						
	EFFICIENCY (Typ.)	76%		77%		77%		78%		77%		77%		
	DC CURRENT	1.4A/12VE	C	-				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)	5.75 ~ 7.5V -5.75 ~ -7.5V 13.8 ~ 18V -13.8 ~ -18V 17.3 ~ 22.5V -17.3 ~ -22.5V 5.75 ~ 7.5V -5.75 ~ -7.5V 13.8 ~ 18V -13.8 ~ -18V 17.3 ~ 22.5V -17.3 ~ -22.5V												
	SHORT CIRCUIT Note.4	·												
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												
	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	1878.5K 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/0.97CUFT												
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. To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1 Ω must be added to the input line. EMC filter suggestion: 												meets	



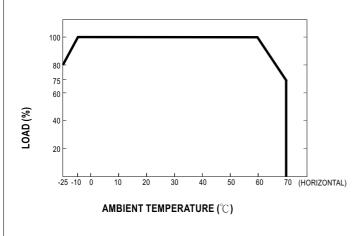


■ Block Diagram

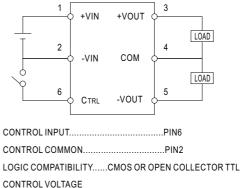
fosc: 350KHz



■ Derating Curve



■ ON/OFF Control



ON.....+5.5VDC min. OR OPEN CIRCUIT OFF.....+2.5VDC max. OR SHORT TO PIN2