

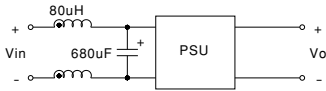


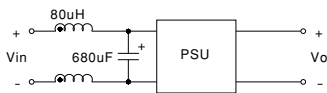
Features :

- 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



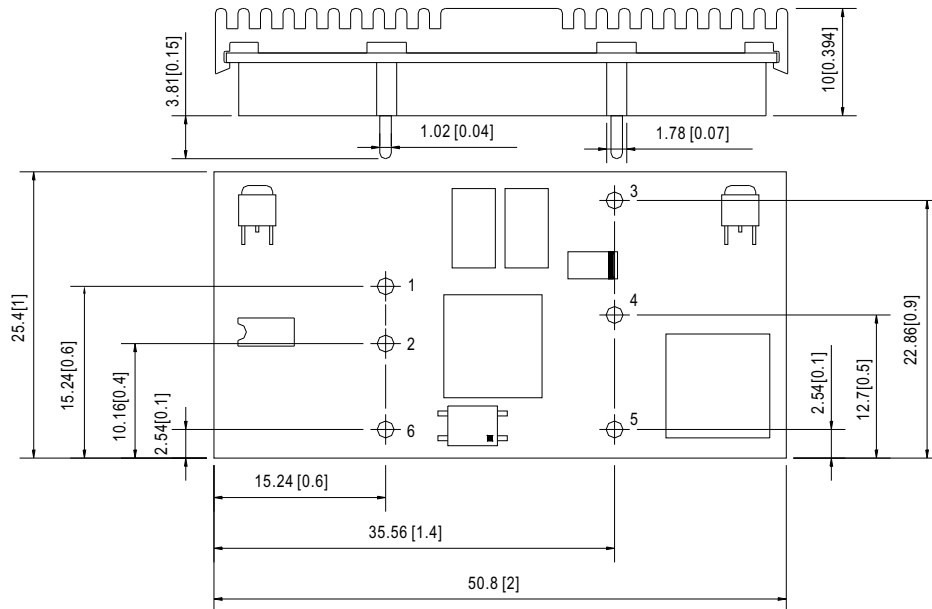
SPECIFICATION

MODEL		NSD10-12D5		NSD10-12D12		NSD10-12D15		NSD10-48D5		NSD10-48D12		NSD10-48D15			
OUTPUT	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V		
	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 ~ 0.33A		
	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%													
INPUT	LOAD REGULATION	±3.0%		±2.0%		±1.0%		±2.0%		±2.0%		±1.0%			
	RATED DC INPUT	12VDC							48VDC						
	VOLTAGE RANGE	9.8 ~ 36VDC							22 ~ 72VDC						
	EFFICIENCY (Typ.)	76%		77%		77%		78%		77%		77%			
	DC CURRENT	1.4A/12VDC							0.4A/48VDC						
SHUTDOWN IDLE CURRENT		20mA/12VDC													
PROTECTION	OVERLOAD	Above 105% rated output power 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	Recovers automatically after fault condition is removed													
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℃, 0 ~ 95% RH													
	TEMP. COEFFICIENT	±0.03%/℃ (0~60℃)													
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL60950-1 approved, Design refer to TUV EN60950-1													
	ISOLATION VOLTAGE	I/P-O/P:1KVDC													
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 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℃)													
	DIMENSION	50.8*25.4*10mm (2**1**0.394") (L*W*H)													
	PACKING	0.02Kg; 300pcs/7Kg/0.97CUFT													
NOTE		1. All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Short circuit not more than 60 seconds. 5. 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. 6. To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1Ω must be added to the input line. 7. EMC filter suggestion: 													



Mechanical Specification

Unit:mm[inch]

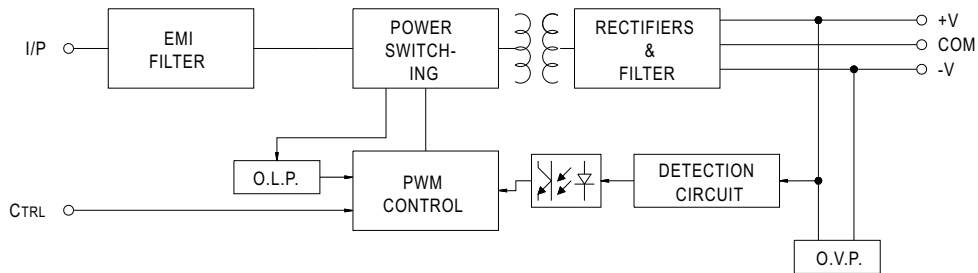


Pin. No Assignment

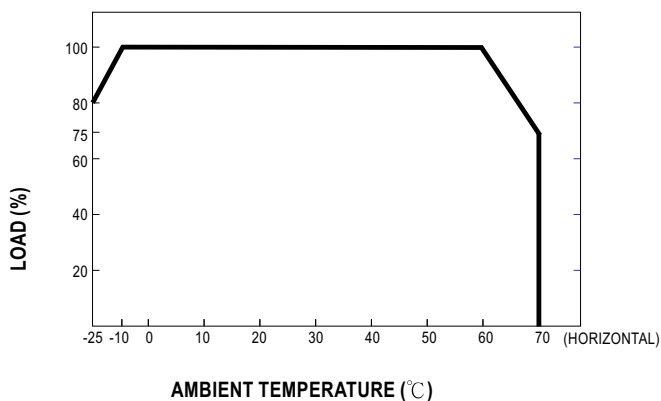
Pin No.	Assignment	Pin No.	Assignment
1	+INPUT	4	COMMON
2	-INPUT(GND)	5	-OUT
3	+OUT	6	CONTROL

Block Diagram

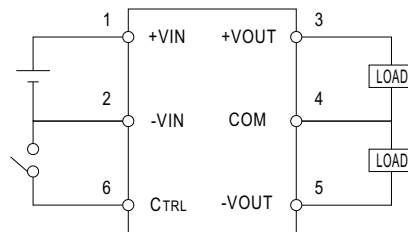
fosc : 350KHz



Derating Curve



ON/OFF Control



CONTROL INPUT.....PIN6
CONTROL COMMON.....PIN2
LOGIC COMPATIBILITY.....CMOS OR OPEN COLLECTOR TTL
CONTROL VOLTAGE
ON.....+5.5VDC min. OR OPEN CIRCUIT
OFF.....+2.5VDC max. OR SHORT TO PIN2