



At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. <u>HERE</u>





Features:

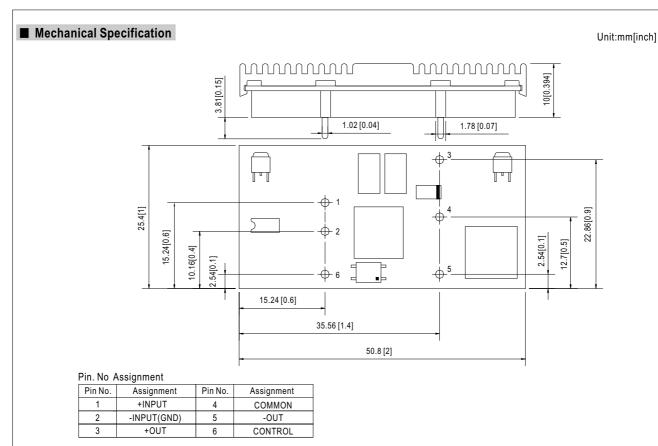
- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

SPECIFICATION



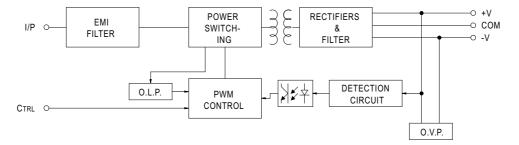
MODEL		NSD10-12	D5	NSD10-12	D12	NSD10-12	D15	NSD10-48	D5	NSD10-48	BD12	NSD10-48	D15
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V
ОИТРИТ	RATED CURRENT	1A	1A	0.42A	0.42A	0.33A	0.33A	1A	1A	0.42A	0.42A	0.33A	0.33A
	CURRENT RANGE	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	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)	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%	
	RATED DC INPUT	12VDC					48VDC						
INPUT	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/12V	/DC							12V -12V 19			
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°℃											
	WORKING HUMIDITY	0% ~ 95% RH max.											
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C	(0~60℃)					±2.0% ±2.0% ±1.0% 48VDC 22 ~ 72VDC 78% 77% 78% 77% 77% 77% 0.4A/48VDC 3.75 ~ 7.5V 13.8 ~ 18V -13.8 ~ -18V 17.3 ~ 2 48 ctropy of the state					
	SAFETY STANDARDS		- ' '	l, Design re	fer 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: 												



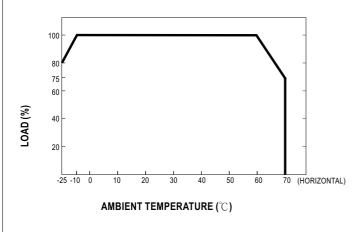


■ Block Diagram

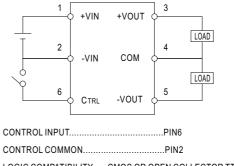
fosc: 350KHz



■ Derating Curve



■ ON/OFF Control



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

CONTROL VOLTAGE

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





Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, click on the green button.

Product	Code	Reference	Product link
DC-DC Regulated Dual Output	NSD1012D12	NSD10-12D12	Buy on EAN
DC-DC Regulated Dual Output	NSD1012D15	NSD10-12D15	Buy on EAN
DC-DC Regulated Dual Output	NSD1012D5	NSD10-12D5	Buy on EAN