



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
- Output voltage trimming function
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability

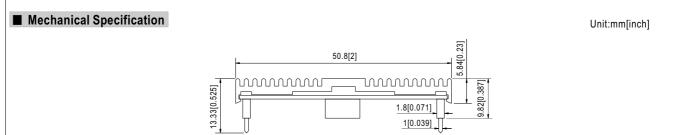
SPECIFICATION

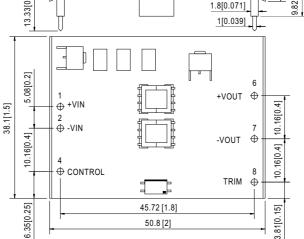
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MODEL	MODEL		NSD15-12S5	NSD15-12S12	NSD15-12S15	NSD15-48S3	NSD15-48S5	NSD15-48S12	NSD15-48S15	
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	3.3V	5V	12V	15V	
	RATED CURRENT	3.75A	3A	1.25A	1A	3.75A	3A	1.25A	1A	
	CURRENT RANGE	0.18 ~ 3.75A	0.15 ~ 3A	0.06 ~ 1.25A	0.05 ~ 1A	0.18 ~ 3.75A	0.15 ~ 3A	0.06 ~ 1.25A	0.05 ~ 1A	
	RATED POWER	12.37W	15W	15W	15W	12.37W	15W	15W	15W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p(25% ~ 100% load) for 3.3V only 75mVp-p(25% ~ 100% load)								
	VOLTAGE TOLERANCE Note.3									
	LINE REGULATION	±1.0% at 10% ~ 100% load								
	LOAD REGULATION	±1.0% at 10% ~ 100% load								
INPUT	RATED DC INPUT	12VDC				48VDC				
	VOLTAGE RANGE	9.4 ~ 36VDC				18 ~ 72VDC				
	EFFICIENCY (Typ.)	73%	77%	81%	81%	77%	81%	84%	85%	
	DC CURRENT	1.8A/12VDC 0.4A/48VDC								
	SHUTDOWN IDLE CURRENT	20mA								
PROTECTION	OVERLOAD	Above 105% rated output power								
		Protection type: Over power limiting, recovers automatically after fault condition is removed								
	OVER VOLTAGE(CLAMP)	5.8 ~ 6.93V	5.8 ~ 7.5V	13.8 ~ 18V	17.25 ~ 22.5V	5.61 ~ 6.93V	5.5 ~ 7.5V	13.8 ~ 18V	17.25 ~ 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°C								
	WORKING HUMIDITY	0% ~ 95% RH max.								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)								
	SAFETY STANDARDS	Design refer to UL60950-1, TUV EN60950-1								
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC								
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC 25℃ 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								
OTHERS	MTBF	1734K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	38.1*50.8*9.82	mm (1.5"*2"*0.3	87") (L*W*H)						
	PACKING		s/6.4Kg/0.97CUF							
NOTE	 All parameters NOT specially mentioned are measured at 12,48VDC input, rated load and 25℃ 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 second. 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. EMC filter suggestion: 									

fosc: 400KHz



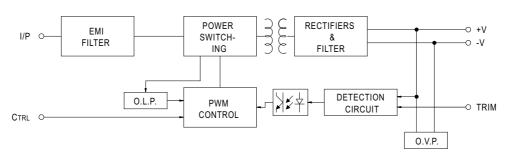




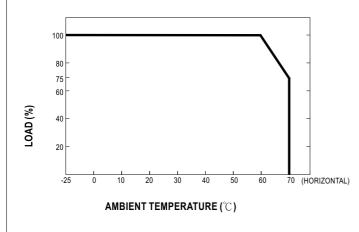
Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	+VIN	6	+VOUT
2	-VIN	7	-VOUT
3,5	No Pin	8	TRIM
4	CONTROL		

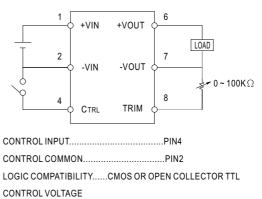
■ Block Diagram



■ Derating Curve



■ ON/OFF Control & Output Trim



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

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