

**SPECIFICATION** 



## ■ 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
- Low cost
- High reliability
- 2 years warranty



MODEL		NSD15-12S3	NSD15-12S5	NSD15-12S12	NSD15-12S15	NSD15-48S3	NSD15-48S5	NSD15-48S12	NSD15-48S15
	DC VOLTAGE	3.3V	5V	12V	15V	3.3V	5V	12V	15V
ОИТРИТ	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	12.375W	15W	15W	15W	12.375W	15W	15W	15W
	CAPACITIVE LOAD (max.)	3300uF							
	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							
	TRIM OUTPUT (Typ.)	+10%	±5.0%	±5.0%	±3.0%	+10%	±5.0%	±5.0%	±3.0%
	SETUP TIME	100ms/RATED	DC INPUT at fu	II 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	II.	I .	1	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 ~ 22.5							
	SHORT CIRCUIT Note.4								
FUNCTION	ON/OFF CONTROL	Logic "1" or open circuit : ON Logic "0" or short to PIN2 : 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 (0~50°C)							
	SAFETY STANDARDS	UL60950-1 approved, Design refer to TUV EN60950-1							
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1.5KVDC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
(Note 5)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B							
	EMC 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°C)							
	DIMENSION	50.8*38.1*9.82mm (2"*1.5"*0.387") (L*W*H)							
	PACKING	0.03Kg; 180pcs/6.4Kg/0.97CUFT							
NOTE	All parameters NOT specially Ripple & noise are measurer Tolerance: includes set up t Short circuit no more than 66 The power supply is conside EMC directives. For guidanc (as available on http://www.n6. Derating to 80% load is need? EMC filter suggestion:	d at 20MHz of ba olerance, line reg o seconds. Fred a componer e on how to per neanwell.com)	andwidth by using julation and load t which will be in form these EMC	g a 12" twisted p regulation. stalled into a fina tests, please refe	air-wire terminate al equipment. The er to "EMI testing	ed with a 0.1uf & e final equipment of component po	47uf parallel cap must be re-confi ower supplies."	rmed that it still r	



