

15W DC-DC Regulated Single Output

NSD15-S series



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



SPECIFICATION

MODEL		NSD15-12S3	NSD15-12S5	NSD15-12S12	NSD15-12S15	NSD15-48S3	NSD15-48S5	NSD15-48S12	NSD15-48S15	
OUTPUT	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	
	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	±2.0%								
	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%	
INPUT	RATED DC INPUT	12VDC	1	1	1	48VDC				
	VOLTAGE RANGE	9.4 ~ 36VDC				18 ~ 72VDC				
	EFFICIENCY (Typ.)	73%	77%	81%	81%	77%	81%	84%	85%	
	DC CURRENT	1.8A/12VDC		1	1	0.4A/48VDC				
	SHUTDOWN IDLE CURRENT	20mA				1				
PROTECTION		Above 105% rated output power								
	OVERLOAD	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 auto	matically after fa	ult condition is re	moved	1	1			
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℃, 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 (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	1734K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	50.8*38.1*9.82mm (2"*1"*0.387") (L*W*H)								
	PACKING	0.03Kg; 180pc	s/6.4Kg/0.97CU	=T						
NOTE	 All parameters NOT specially Ripple & noise are measured Tolerance : includes set up t Short circuit no more than 60 The power supply is considered EMC directives. Derating to 80% load is need EMC filter suggestion: 	d at 20MHz of b olerance, line reg) seconds. red a componer	andwidth by usin gulation and load It which will be in	g a 12" twisted p regulation. Istalled into a fina	air-wire terminate	ed with a 0.1uf & e final equipment	47uf parallel cap must be re-confi	irmed that it still r		



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