

5W DC-DC Regulated Single Output

NSD05-S series



Features :

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



GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

SPECIFICATION		BS EN/EN62368-1 TPTC004 IEC62368-1							
MODEL		NSD05-12S3	NSD05-12S5	NSD05-12S12	NSD05-12S15	NSD05-48S3	NSD05-48S5	NSD05-48S12	NSD05-48S15
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	3.3V	5V	12V	15V
	RATED CURRENT	1.2A	1A	0.42A	0.33A	1.2A	1A	0.42A	0.33A
	CURRENT RANGE	0~1.2A	0~1A	0~0.42A	0~0.33A	0~1.2A	0~1A	0~0.42A	0~0.33A
	RATED POWER	3.96W	5W	5.04W	4.95W	3.96W	5W	5.04W	4.95W
	CAPACITIVE LOAD (max.)	1000uF	1000uF	120uF	120uF	1000uF	1000uF	120uF	120uF
	RIPPLE & NOISE (max.) Note.2	.2 75mVp-p							
	VOLTAGE TOLERANCE Note.3	3 ±2.0% max.							
	LINE REGULATION	土1.0%							
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%
	SETUP TIME	80ms/RATED	DC INPUT at ful	Load					
INPUT	RATED DC INPUT	12VDC				48VDC			
	VOLTAGE RANGE	9.2 ~ 36VDC				18 ~ 72VDC			
	EFFICIENCY (Typ.)	72%	76%	82%	83%	75%	78%	83%	85%
	DC CURRENT	0.7A/12VDC		1		0.2A/48VDC			
	SHUTDOWN IDLE CURRENT	5mA/12VDC				5mA/48VDC			
		Above 105% rated output power							
PROTECTION	OVERLOAD	Protection type : Over power limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE(CLAMP)	3.8~4.6V	5.6 ~ 6.8V	13.5 ~ 16.5V	16.2 ~ 19.8V	3.8 ~ 4.6V	5.6 ~ 6.8V	13.5 ~ 16.5V	16.2 ~ 19.8V
	SHORT CIRCUIT					0.0 1.00	0.0 0.01	10.0	10.2 10.01
FUNCTION	ON/OFF CONTROL	Recovers automatically after fault condition is removed 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 (0~60°C)							
SAFETY & EMC (Note 4) OTHERS	SAFETY STANDARDS	TUV BS EN/EN62368-1,IEC62368-1 CB approved by TUV, EAC TP TC 004 approved							
	ISOLATION VOLTAGE								
	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC / 25°C/ 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8; BS EN/EN55035, light industry level, EAC TP TC 020							
	MTBF	11455.9K hrs min. Telcordia SR-332 (Bellcore) ; 1734.0K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	40.6*25.4*8.3mm (1.6"*1"*0.327") (L*W*H)							
	PACKING	0.007Kg; 700pcs/5.9Kg/1.23CUFT							
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up The power supply is consid a 230mm*230mm metal pla perform these EMC tests, p To insure proper operation, EMC filter suggestion(TBD): 5.5uH PSU The ambient temperature d 	ed at 20MHz of tolerance, line i lered a compon ate with 1mm of please refer to "I a 47uF/100V e	bandwidth by u regulation and k ent which will be thickness. The EMI testing of co lectrolytic capac	sing a 12" twiste bad regulation. a installed into a final equipment i omponent power itor with Esr <1 \$	d pair-wire termi final equipment. nust be re-confii supplies." (as a 2 must be added	nated with a 0.1 All the EMC tes rmed that it still i vailable on http: d to the input lin	uf & 47uf paralle ts are been exe meets EMC dire //www.meanwell e.	cuted by mount ctives. For guida .com)	ance on how t



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