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

## **SPECIFICATION**

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MODEL		NSD05-12S3	NSD05-12S5	NSD05-12S12	NSD05-12S15	NSD05-48S3	NSD05-48S5	NSD05-48S12	NSD05-48S15
ОИТРИТ	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	75mVp-p							
	VOLTAGE TOLERANCE Note.3								
	LINE REGULATION	±1.0%							
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%
	SETUP TIME	80ms/RATED I	DC INPUT at full	l 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				0.2A/48VDC			
	SHUTDOWN IDLE CURRENT	5mA/12VDC	5mA/12VDC 5mA/48VDC						
PROTECTION	OVERLOAR	Above 105% rated output power							
	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	Recovers automatically after fault condition is removed							
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 (0~60°C)							
SAFETY & EMC (Note 4)	SAFETY STANDARDS	IEC60950-1 CB approved by TUV							
	ISOLATION VOLTAGE	I/P-O/P:1KVDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8; EN55024, light industry level, criteria A							
OTHERS	MTBF	914.4K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	40.6*25.4*8.3mm (1.6"*1"*0.327") (L*W*H)							
	PACKING		cs/5.9Kg/0.97Cl						
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</li> <li>To insure proper operation, a 47uF/100V electrolytic capacitor with Esr &lt;1 Ω must be added to the input line.</li> </ol>								





## 5W DC-DC Regulated Single Output

## NSD05-S series



