



## MEAN WELL SD-25 Series 25W Single Output DC-DC Converter Datasheet

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25W Single Output DC-DC Converter  
SD – 25 series



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- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage
- 1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 83KHz
- Low cost
- High reliability
- 2 years warranty



MODEL		SD-25 A-5	SD-25 B-5	SD-25 C-5	SD-25 A-12	SD-25 B-12	SD-25 C-12	SD-25 A-24	SD-25 B-24	SD-25 C-24
	DC VOLTAGE	5V			12V			24V		
	RATED CURRENT	5A			2.1A			1.1A		
	CURRENT RANGE	0 ~ 5A			0 ~ 2.1A			0 ~ 1.1A		
	RATED POWER	25W			25.2W			26.4W		


OUTP UT	RIPPLE & NOISE (max.) Note.2	100mVp-p			120mVp-p			150mVp-p		
	VOLTAGE ADJ. R ANGE	4.5 ~ 5.5VDC			11 ~ 16VDC			23 ~ 30VDC		
	VOLTAGE TOLERANCE Not e.3	±2.0%			±1.0%			±1.0%		
	LINE REGULATI ON	±0.5%			±0.3%			±0.2%		
	LOAD REGULATI ON	±0.5%			±0.3%			±0.2%		
	SETUP, RISE, HO LD UP TIME	2.5s, 50ms,—— at full load								
INPU T	VOLTAGE RANG E	A:9.2 ~ 18VDC B:19 ~ 36VDC C:36 ~ 72VDC								
	EFFICIENCY (Ty p.)	71%	72%	74%	72%	75%	78%	75%	78%	81%
	DC CURRENT	3.2A/1 2V	1.6A/2 4V	0.8A/4 8V	3.2A/1 2V	1.6A/2 4V	0.8A/4 8V	3.2A/1 2V	1.6A/2 4V	0.8A/4 8V
	OVERLOAD	105 ~ 150% rated output power								

<b>PROTECTION</b>		Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	<b>OVER VOLTAGE</b>	5.75 ~ 6.75V/10% load	16.8 ~ 20V/10% load	31.5 ~ 37.5V/10% load
		Protection type : Hiccup mode, recovers automatically after fault condition is removed		
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-10 ~ +60°C (Refer to “Derating Curve”)		
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing		
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH		
	<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0 ~ 50°C)		
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
<b>SAFETY &amp; EMC (Note 4)</b>	<b>SAFETY STANDARDS</b>	Design refer to LVD, EAC TP TC 004 approved		
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH		

	<b>EMC EMISSION</b>	Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020
	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,6,8, EN55024, heavy industry level, criteria A, EAC TP TC 020
<b>OTHERS</b>	<b>MTBF</b>	374.3K hrs min.(SD-25A) 365.9K hrs min.(SD-25B) 377.5K Hrs min.(SD-25C) MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	99*97*36mm (L*W*H)
	<b>PACKING</b>	0.38Kg; 45pcs/17.8Kg/0.9CUFT
<b>NOTE</b>	<p>1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature.</p> <p>2. 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.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. 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 360mm*360mm 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p>	

File Name:SD-25-SPEC 2018-01-12

## Documents / Resources

	<p><a href="#">MEAN WELL SD-25 Series 25W Single Output DC-DC Converter</a> [pdf] Datasheet</p> <p>SD-25 Series 25W Single Output DC-DC Converter, SD-25 Series, 25W Single Output DC-DC Converter, DC-DC Converter, Converter</p>
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