



25W Enclosed Type DC to DC Power Supply < SD-25



- Features :
- 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



SPECIFICATION

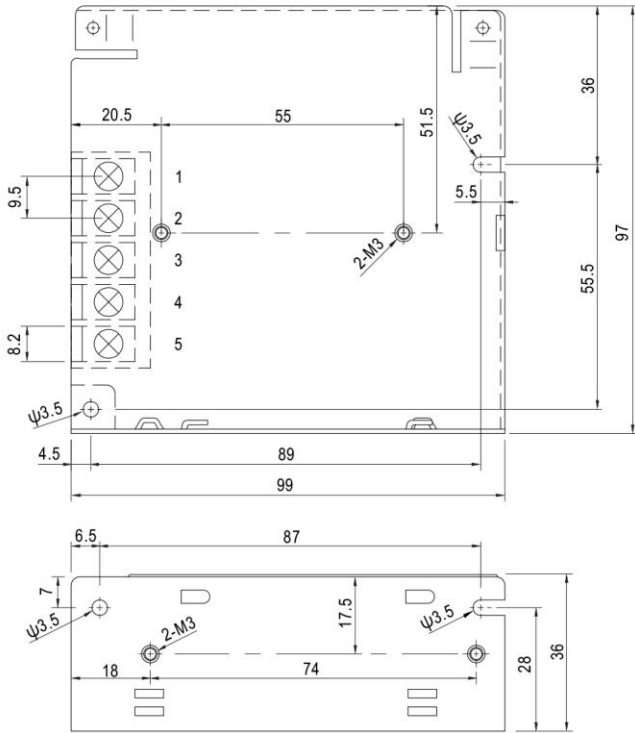
MODEL	SD-25A-5	SD-25B-5	SD-25C-5	SD-25A-12	SD-25B-12	SD-25C-12	SD-25A-24	SD-25B-24	SD-25C-24			
OUTPUT	DC VOLTAGE			12V			24V					
	RATED CURRENT			2.1A			1.1A					
	CURRENT RANGE			0 ~ 2.1A			0 ~ 1.1A					
	RATED POWER			25W			26.4W					
	RIPPLE & NOISE (max.) Note.2			100mVp-p			120mVp-p					
	VOLTAGE ADJ. RANGE			4.5 ~ 5.5VDC			11 ~ 16VDC					
	VOLTAGE TOLERANCE Note.3			±2.0%			±1.0%					
	LINE REGULATION			±0.5%			±0.3%					
	LOAD REGULATION			±0.5%			±0.3%					
	SETUP, RISE, HOLD UP TIME			2.5s, 50ms, ----- at full load								
INPUT	VOLTAGE RANGE											
	A:9.2 ~ 18VDC			B:19 ~ 36VDC			C:36 ~ 72VDC					
	EFFICIENCY (Typ.)			71%	72%	74%	72%	75%	78%	75%	78%	81%
DC CURRENT			3.2A/12V	1.6A/24V	0.8A/48V	3.2A/12V	1.6A/24V	0.8A/48V	3.2A/12V	1.6A/24V	0.8A/48V	
PROTECTION	OVERLOAD											
	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	OVER VOLTAGE			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											
ENVIRONMENT	WORKING TEMP.											
	-10 ~ +60°C (Refer to "Derating Curve")											
	WORKING HUMIDITY											
	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY											
-20 ~ +85°C, 10 ~ 95% RH												
SAFETY & EMC (Note 4)	TEMP. COEFFICIENT											
	±0.03%/°C (0 ~ 50°C)											
	VIBRATION											
	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
	SAFETY STANDARDS											
Design refer to LVD, EAC TP TC 004 approved												
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE											
	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
	ISOLATION RESISTANCE											
	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH											
SAFETY & EMC (Note 4)	EMC EMISSION											
	Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020											
	EMC IMMUNITY											
Compliance to EN61000-4-2,3,4,6,8, EN55024, heavy industry level, criteria A, EAC TP TC 020												
OTHERS	MTBF											
	374.3K hrs min.(SD-25A)			365.9K hrs min.(SD-25B)			377.5K Hrs min.(SD-25C)			MIL-HDBK-217F (25°C)		
	DIMENSION											
99*97*36mm (L*W*H)												
OTHERS	PACKING											
	0.38Kg; 45pcs/17.8Kg/0.9CUFT											
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 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." 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). 											



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Mechanical Specification

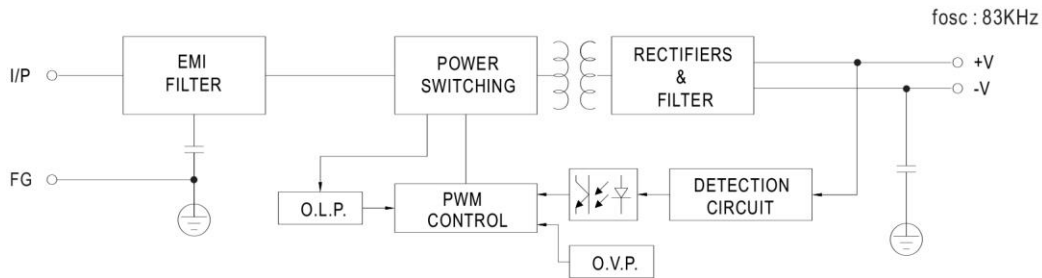
Case No. 905 Unit:mm



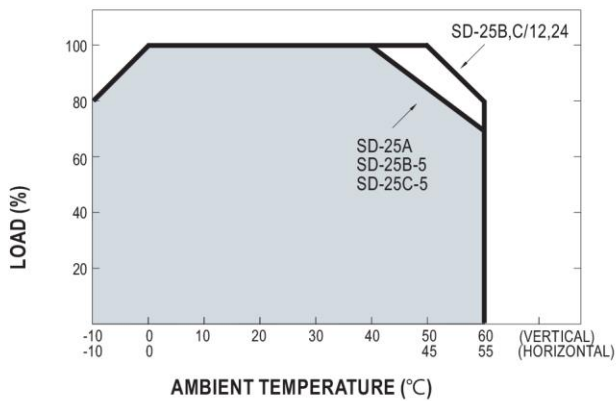
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC INPUT V-	4	DC OUTPUT +V
2	DC INPUT V+	5	DC OUTPUT -V
3	FG \pm		

Block Diagram



Derating Curve



Static Characteristics(SD-25C-24V)

