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■ Features :

- ·2:1 wide input range
- ·Protections: Short circuit / Overload / Over voltage
- ·1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- ·Low cost
- ·High reliability
- ·2 years warranty





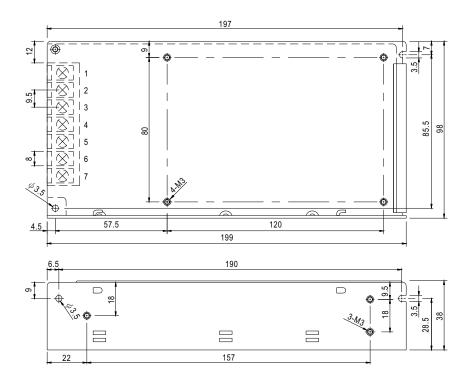


SPECIFIC	ATION					,			(for D type	368-1 TPT only)		62368-1 type only)	
MODEL		SD-100A-5	SD-100B-5	SD-100C-5	SD-100D-5	SD-100A-12	SD-100B-12	SD-100C-12	SD-100D-12	SD-100A-24	SD-100B-24	SD-100C-24	SD-100D-24
ОИТРИТ	DC VOLTAGE	5V	•		•	12V				24V			
	RATED CURRENT	18A	20A		8.5A	8.5A		4.2A					
	CURRENT RANGE	0 ~ 18A	0~20A		0 ~ 8.5A			0 ~ 4.2A					
	RATED POWER	90W	100W			102W			100.8W				
	RIPPLE & NOISE (max.) Note.2	100mVp-p			120mVp-p			150mVp-p					
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC			11 ~ 16VDC			23 ~ 30VDC					
	VOLTAGE TOLERANCE Note.3	±2.0%			±1.0%			±1.0%					
	LINE REGULATION	±0.5%			±0.3%			±0.2%					
	LOAD REGULATION	±0.5%			±0.3%			±0.2%					
	SETUP, RISE TIME	2s, 50ms(only D mode) at full load											
	HOLD UP TIME (Typ.)	20ms(only D mode) at full load											
	VOLTAGE RANGE	A:9.5 ~ 18VDC B:19 ~ 36VDC C:36 ~ 72VDC D:72 ~ 144VDC or 85 ~ 132VAC											
	EFFICIENCY (Typ.)	78%	74%	75%	76%	82%	75%	77%	80%	84%	78%	81%	83%
INPUT	DC CURRENT (Typ.)	9.7A/12V	4.8A/24V	2.4A/48V	1.8A/96V	10.4A/12V	4.8A/24V	2.4A/48V	1.8A/96V	10A/12V	4.8A/24V	2.4A/48V	1.8A/96V
	INRUSH CURRENT (Typ.)	D:18A/96VDC											
	LEAKAGE CURRENT	<0.75mA/120VAC(SD-100D)											
PROTECTION		105 ~ 135% rated output power											
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	OVED VOLTAGE	5.75 ~ 6.75V/10% load 16.8 ~ 20V/10% load 31.5 ~ 37.5V 31.5 ~ 37.5V/10% load											
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	WORKING TEMP.	-15 ~ +60°C(SD-100A), -10 ~ +60°C(SD-100B/C/D) (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
	SAFETY STANDARDS	IEC/BS EN/EN 62368-1(for D type only), EAC TP TC 004 approved, design refer to AS/NZS 62368.1											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH											
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020											
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, EAC TP TC 020											
	MTBF	2600.2K hrs min. Telcordia SR-332 (Bellcore) ; 399.9K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	199*98*3	8mm (L*W*	'H)									
	PACKING			(g/0.85CUF									
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is consided a 360mm*360mm metal plate perform these EMC tests, power supply included the set of the set	All parameters NOT specially mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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 http://www.meanwell.com) 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). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx											



■ Mechanical Specification

Case No. 902 Unit:mm



Terminal Pin No. Assignment

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Pin No.	Assignment	Pin No.	Assignment			
1,2	INPUT ※	4,5	DC OUTPUT -V			
3	FG ≟	6,7	DC OUTPUT +V			

※ SD-100A,B,C

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Pin No.	Assignment				
1	DC INPUT V+				
2	DC INPUT V-				

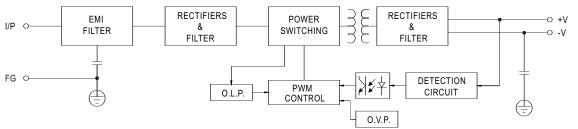
※ SD-100D

Pin No.	Assignment		
1,2	AC/DC INPUT		

■ Block Diagram

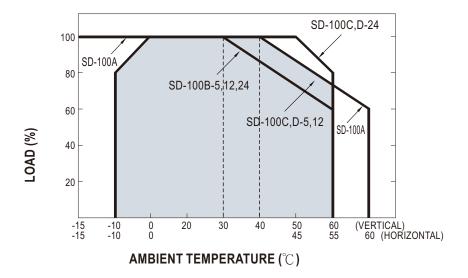
fosc:83KHz

A-type: 65KHz





■ Derating Curve



■ Output Derating VS Input Voltage

