



■ 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



■ GTIN CODE







SPECIFICATION

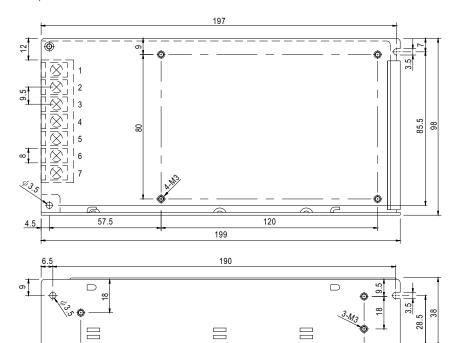
SPECIFIC	ATION						AS/NZS62368-1 BS EN/EN623 (for D type o						
MODEL		SD-100A-5	SD-100B-5	SD-100C-5	SD-100D-5	SD-100A-12	SD-100B-12	SD-100C-12	SD-100D-12	SD-100A-24	SD-100B-24	SD-100C-24	SD-100D-24
	DC VOLTAGE	5V				12V				24V			
	RATED CURRENT	18A 20A		8.5A			4.2A						
	CURRENT RANGE	0 ~ 18A 0 ~ 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					
OUTPUT	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%	±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 ~ 18	VDC	B:19 ~ 36V	DC C	:36 ~ 72VD	C D:7	2 ~ 144VD0	C or 85 ~ 1	32VAC			
	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)											
	OVER OAR	105 ~ 135% rated output power											
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION		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										
	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											
ENVIRONMENT	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												
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 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, BS EN/EN55035, 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*38mm (L*W*H)											
	PACKING	0.65Kg; 20pcs/13.8Kg/0.85CUFT											
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal plat perform these EMC tests, p (as available on https://www The ambient temperature d	parameters NOT specially mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. ple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. erance: includes set up tolerance, line regulation and load regulation. e 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 50mm*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 form these EMC tests, please refer to "EMI testing of component power supplies." available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) e 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). be about 12,44,896VDC input, rated load and 25°C of ambient temperature.											



■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

Case No. 902



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					

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

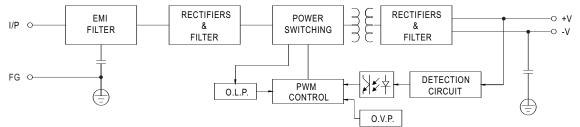
※ SD-100D

Pin No.	Assignment			
1,2	AC/DC INPUT			

■ Block Diagram

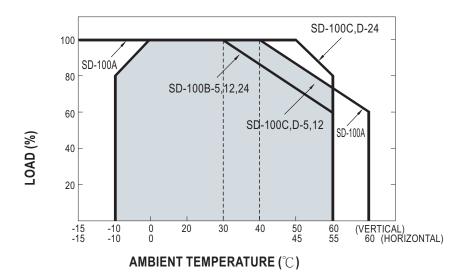
fosc:83KHz







■ Derating Curve



■ Output Derating VS Input Voltage

