



■ 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(A-type 65KHz)
- 24V and 48V input voltage design refer to LVD
- Low cost
- High reliability
- 2 years warranty

SPECIFICATION

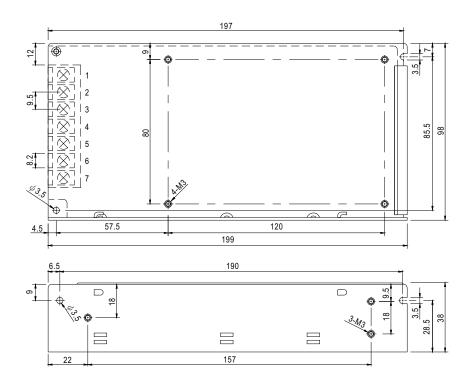
CB(for D type only) (E

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	12V			24V				
	RATED CURRENT	18A 20A			8.5A			4.2A					
	CURRENT RANGE	0 ~ 18A	~ 18A 0 ~ 20A			0 ~ 8.5A			0 ~ 4.2A				
	RATED POWER	90W	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											
INPUT	EFFICIENCY (Typ.)	78%	74%	75%	76%	82%	75%	77%	80%	84%	78%	81%	83%
	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	01/501 040	105 ~ 135% rated output power											
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	5.75 ~ 6.75V/10% load 16.8 ~ 20V/10% load 31.5 ~ 37.5V 31.5 ~ 37.5V/10% load											
	OVER VOLIAGE	Protection type : Hiccup mode, recovers at				utomatically 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	$-20 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ 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	IEC60950-1 CB approved by TUV (for D type only) I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
SAFETY &	WITHSTAND VOLTAGE												
EMC	ISOLATION RESISTANCE	/P-O/P, /P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B											
EMC IMMUNITY Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A													
OTHERS	MTBF	399.9K hrs min.(SD-100A) 356.7K hrs min.(SD-100B) 355.5K hrs min.(SD-100C) 341.9K Hrs min.(SD-100D) MIL-HDBK-217F (25°C)											
	DIMENSION	199*98*38mm (L*W*H)											
	PACKING	0.65Kg; 20pcs/13.8Kg/0.8CUFT											
NOTE	 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) 												

MEAN WELL

■ Mechanical Specification

Case No. 902 Unit:mm



Terminal Pin No. Assignment

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

/• (
Pin No.	Assignment			
1	DC INPUT V+			
2	DC INPUT V-			

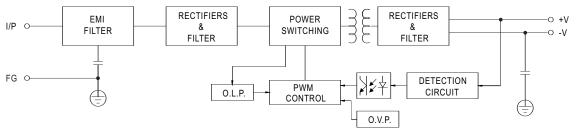
% SD-100D

Pin No.	Assignment		
1,2	AC/DC INPUT		

■ Block Diagram

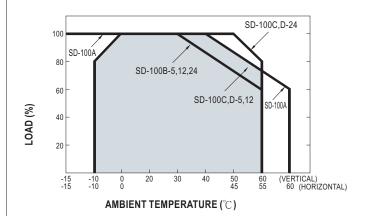
fosc:83KHz

A-type : 65KHz





■ Derating Curve



■ Output Derating VS Input Voltage

