

■ Features :

- 2:1 wide input range
- Protections: Short circuit/Over load/Over voltage
- 1500VDC 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
- 1 year warranty

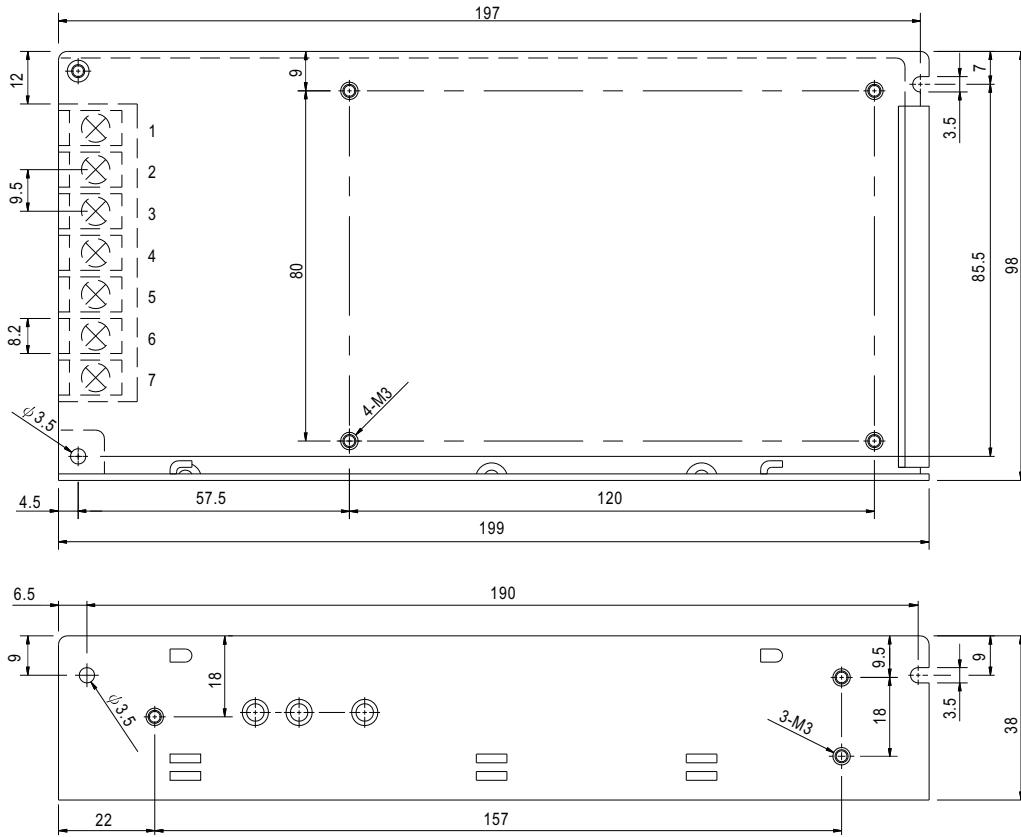


SPECIFICATION

MODEL		SD-100B-5	SD-100C-5	SD-100D-5	SD-100B-12	SD-100C-12	SD-100D-12	SD-100B-24	SD-100C-24	SD-100D-24	
OUTPUT	DC VOLTAGE	5V			12V			24V			
	RATED CURRENT	20A			8.5A			4.2A			
	CURRENT RANGE	0 ~ 20A			0 ~ 8.5A			0 ~ 4.2A			
	RATED POWER	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, HOLD TIME	2s, 50ms, 20ms(only D mode) at full load										
INPUT	VOLTAGE RANGE	B:19 ~ 36VDC		C:36 ~ 72VDC	D:72 ~ 144VDC or 85 ~ 132VAC						
	EFFICIENCY (Typ.)	74%	75%	76%	75%	77%	80%	78%	81%	83%	
	DC CURRENT	6A/24V			3A/48V			1.5A/96V			
	INRUSH CURRENT (max.)	D:20A/96VDC									
	LEAKAGE CURRENT	<0.75mA/120VAC(SD-100D)									
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Fold back current limiting, recovers automatically after fault condition is removed									
	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 output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
SAFETY & EMC (Note 4)	SAFETY STANDARDS	24V and 48V input design refer to LVD									
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204 heavy industry level, criteria A									
	MTBF	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	0.6Kg; 20pcs/12.5Kg/0.89CUFT									
NOTE	<p>1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 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. The final equipment must be re-confirmed that it still meets EMC directives.</p>										

Mechanical Specification

Case No. 902 Unit:mm



Terminal Pin. No Assignment

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

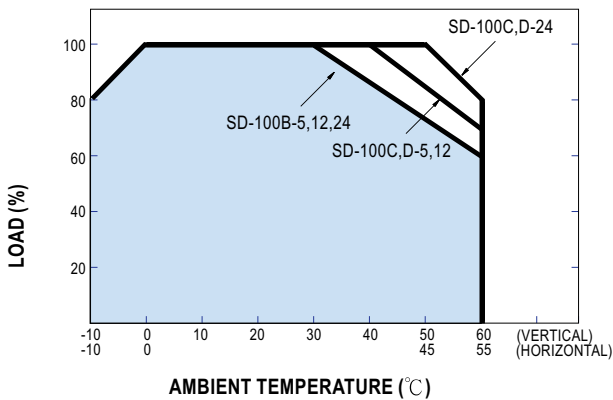
※ SD-100B,C

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

※ SD-100D

Pin No.	Assignment
1,2	AC/DC INPUT

Derating Curve



Static Characteristics(SD-100D-24V)

