

■ 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
- 24V and 48V input voltage design refer to LVD
- Low cost
- High reliability
- 2 years warranty

SPECIFICATION

CB(for D type only) (€

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	
ОИТРИТ	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 TIME	2s, 50ms(only	/ D mode) at fu	ıll load							
	HOLD UP TIME (Typ.)	20ms(only D mode) at full load									
INPUT	VOLTAGE RANGE	B:19 ~ 36VD0	C C:36 ~	72VDC D	:72 ~ 144VDC	72 ~ 144VDC or 85 ~ 132VAC					
	EFFICIENCY (Typ.)	74%	75%	76%	75%	77%	80%	78%	81%	83%	
	DC CURRENT (Typ.)	4.8A/24V	2.4A/48V	1.8A/96V	4.8A/24V	2.4A/48V	1.8A/96V	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									
	OVER VOLTAGE	5.75 ~ 6.75V/10% load 16.8 ~ 20V/10% load 31.5 ~ 37.5V/10% load									
	OVER VOLIAGE	Protection typ	e : Hiccup mo	Hiccup mode, recovers automatically after fault condition is removed							
ENVIRONMENT	WORKING TEMP.	$-10 \sim +60^{\circ}$ 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 STANDARDS	IEC60950-1 CB approved by TUV (for D type only)									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, light industry level, criteria A									
OTHERS	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, 1	s/13.8Kg/0.8C								
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla	parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. sple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. lerance: 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 160mm*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 17 from these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)									



