



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

CB (for D type only)	(ϵ
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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	05 1000 0	05 1005 0	12V	05 1000 12	05 1005 12	24V	05 1000 24	05 1005 21	
	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	*****			120mVp-p			150mVp-p			
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC			11 ~ 16VDC			23 ~ 30VDC			
	VOLTAGE TOLERANCE Note.3				±1.0%			±1.0%			
	LINE REGULATION	±0.5%			±0.3%			±0.2%			
	LOAD REGULATION	±0.5%			±0.3%			±0.2%			
	SETUP, RISE TIME		v D modo) at fu	II load	10.3%			10.276			
	HOLD UP TIME (Typ.)	2s, 50ms(only D mode) at full load									
	VOLTAGE RANGE	20ms(only D mode) at full load B:19 ~ 36VDC									
		74%	75%	76%	75%	77%	80%	78%	81%	83%	
	EFFICIENCY (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	
INPUT	DC CURRENT (Typ.) INRUSH CURRENT (Typ.)			1.0A/90V	4.0A/24V	2.4A/40V	1.0A/90V	4.0A/24V	2.4A/40V	1.0A/90V	
	LEAKAGE CURRENT	D:18A/96VDC									
PROTECTION	LEARAGE CURRENT	<0.75mA/120VAC(SD-100D)									
	OVERLOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed									
			75 ~ 6.75V/10% load 16.8 ~ 20V/10% load 31.5 ~ 37.5V/10% load								
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)									
ENVIRONMENT	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									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:100	OM Ohms / 500	VDC / 25°C / 70)% RH					
(Note 4)	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									
	MTBF	356.7K hrs min.(SD-100B) 355.5K hrs min.(SD-100C) 341.9K Hrs min.(SD-100D) MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	199*98*38mm (L*W*H)									
	PACKING	0.65Kg; 20pc	s/13.8Kg/0.8C	UFT							
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is considered in the considered in t	All parameters NOT specially mentioned are measured at 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. Tolerance 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. 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)									



