

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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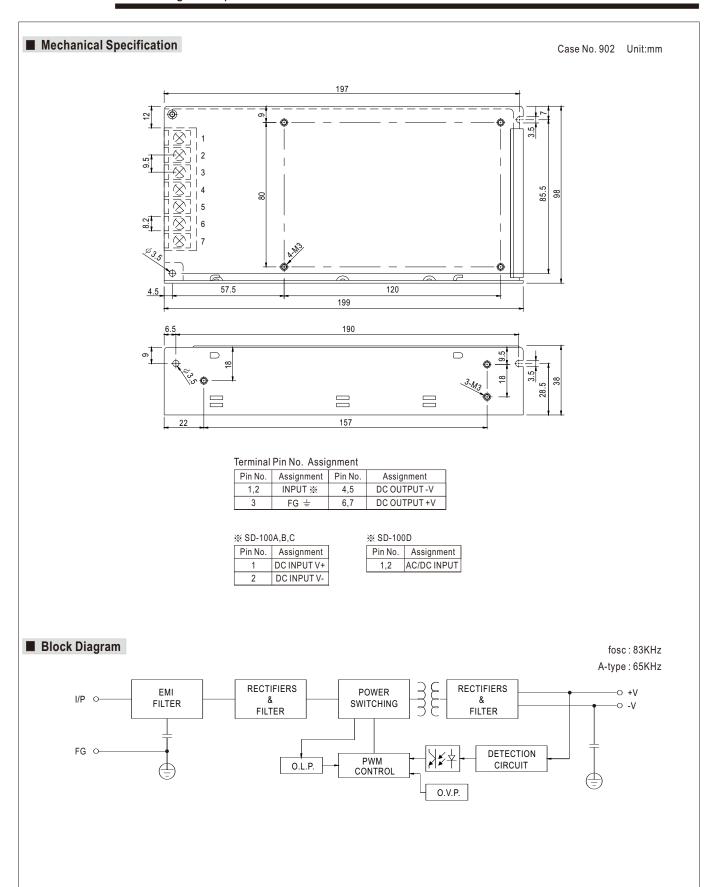
■ Features :

- •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

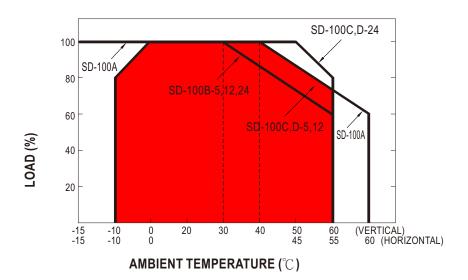
SPECIFICATION

Effi CB(for D type only) **C**€

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				24V				
	RATED CURRENT	18A 20A								4.2A				
	CURRENT RANGE	0 ~ 18A	~ 18A 0 ~ 20A			0 ~ 8.5A				0 ~ 4.2A				
	RATED POWER	90W	100W 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	20ms(only D mode) at full load											
INPUT	VOLTAGE RANGE	A:9.5 ~ 18	VDC	B:19 ~ 36V	DC C	D:72 ~ 144VDC or 85 ~ 13				32VAC				
	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/96	
	INRUSH CURRENT (Typ.)	D:18A/96VDC												
	LEAKAGE CURRENT	<0.75mA/120VAC(SD-100D)												
PROTECTION	OVERLOAR	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 31.5 ~ 37.5V/10% load												
	OVER VOLINGE	Protection type: Hiccup mode, recovers automatically 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 ~ +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 & EMC (Note 4)	SAFETY STANDARDS	IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved												
	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 / 25°C / 70% RH												
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020												
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 (2 199*98*38mm (L*W*H)										17F (25°C		
	DIMENSION	0.65Kg; 20pcs/13.8Kg/0.8CUFT												
NOTE	Ripple & noise are measure Tolerance: includes set up The power supply is consid a 360mm*360mm metal plat perform these EMC tests, p	ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In the second se												



■ Derating Curve



■ Output Derating VS Input Voltage

