





■ 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



EH CB CE CK

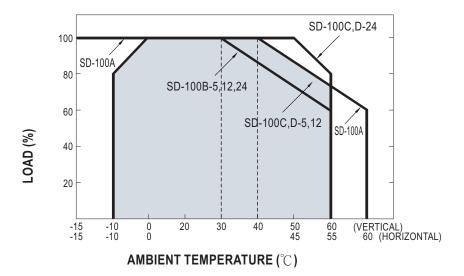
SPECIFICATION

PECIFIC	ATION								(for D type	offiny)	(101 D	type only)	
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-2
ОИТРИТ	DC VOLTAGE	5V		'	•	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 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				<u>'</u>							
	HOLD UP TIME (Typ.)	20ms(only	20ms(only D mode) at full load										
INPUT	VOLTAGE RANGE	A:9.5 ~ 18VDC B:19 ~ 36VDC C:36 ~ 72VDC D:72 ~ 144VDC or 85 ~ 132VAC											
	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	OVERLOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	5.75 × 6.75V/409/ load 16.9 × 20V/409/ load 31.5 - 37.5V 24.5 × 27.5V/409/ load											
		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 STANDARDS	IEC/BS EN/EN 62368-1 (for D type only), EAC TP TC 004 approved, design refer to AS/NZS 62368.1											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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											
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020											
	EMC IMMUNITY	Compliance to BS EN/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										17F (25°C	
	DIMENSION		Bmm (L*W*	,	- (,		(,	. (,		
	PACKING	0.65Kg; 20pcs/13.8Kg/0.85CUFT											
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In ally mentioned are measured at 12,24,48,96VDC input, rated load and 25°C of ambient temperature. In all the structure in all the structure in all the structure in all the structure in all the structure. In all the structure in all the structure in all the structure in all the structure in all the structure. In all the structure in all the structure. In all the structure in all the structure in all the structure in all the structure in all the structure. In all the structure in all the											

■ Mechanical Specification Case No. 902 Unit:mm 197 85.5 86 57.5 120 199 190 157 Terminal Pin No. Assignment Pin No. Assignment Pin No. Assignment 1,2 INPUT ※ 4,5 DC OUTPUT -V FG ± 6,7 DC OUTPUT +V 3 ※ SD-100A,B,C **%** SD-100D Pin No. Assignment Pin No. Assignment DC INPUT V+ 1,2 AC/DC INPUT DC INPUT V-■ Block Diagram fosc: 83KHz A-type: 65KHz RECTIFIERS RECTIFIERS POWER EMI -O +V I/P O & FILTER FILTER & FILTER SWITCHING FG O DETECTION PWM CONTROL CIRCUIT O.L.P. 0.V.P.



■ Derating Curve



■ Output Derating VS Input Voltage

