



Features:

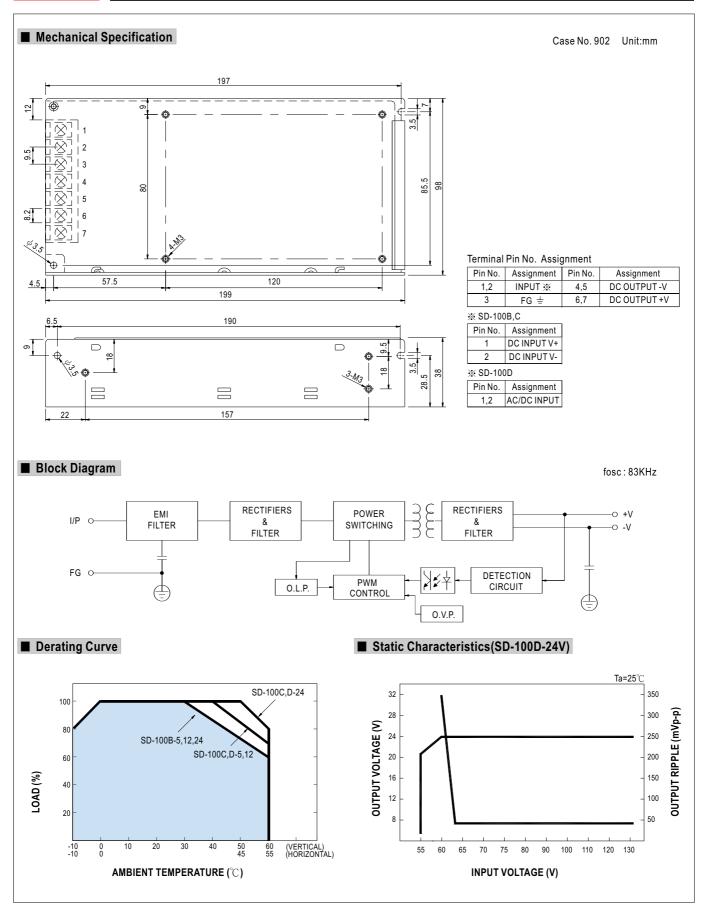
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage
- 1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 83KHz
- 24V and 48V input voltage design refer to LVD
- Low cost
- High reliability
- 2 years warranty

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 full load									
	HOLD UP TIME (Typ.)	20ms(only D mode) at full load									
INPUT	VOLTAGE RANGE	B:19 ~ 36VDC									
	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	OVERLOAD	105 ~ 135% rated output power									
		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			
		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 STANDARDS	IEC60950-1 CB approved by TUV (for D type only)									
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									
	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℃)									
	DIMENSION	199*98*38mr	, ,								
	PACKING	0.65Kg; 20pcs/13.8Kg/0.8CUFT									
NOTE	Ripple & noise are measure Tolerance : includes set up	ally mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. p tolerance, line regulation and load regulation. idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets									









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

${f CB}$ (for D type only) ${f CE}$

MODEL		SD-150B-12	SD-150C-12	SD-150D-12	SD-150B-24	SD-150C-24	SD-150D-24			
	DC VOLTAGE	12V			24V					
ОИТРИТ	RATED CURRENT	12.5A			6.3A					
	CURRENT RANGE	0 ~ 12.5A			0 ~ 6.3A					
	RATED POWER	150W			151.2W					
	RIPPLE & NOISE (max.) Note.2	120mVp-p			150mVp-p					
	VOLTAGE ADJ. RANGE	11 ~ 16VDC			23 ~ 30VDC					
	VOLTAGE TOLERANCE Note.3	±1.0%			±1.0%					
	LINE REGULATION	±0.5%			±0.3%					
	LOAD REGULATION	±0.5%			±0.3%					
	SETUP, RISE TIME	2s, 50ms(only D mode) at full load								
	HOLD UP TIME (Typ.)	24ms(only D mode) at full load								
	VOLTAGE RANGE	B:19 ~ 36VDC								
	EFFICIENCY (Typ.)	75%	77%	79%	77%	80%	82%			
INPUT	DC CURRENT (Typ.)	6.8A/24V	3.4A/48V	2.7A/96V	6.8A/24V	3.4A/48V	2.7A/96V			
	INRUSH CURRENT (Typ.)	D:22.5A/96VDC								
	LEAKAGE CURRENT	<0.75mA / 120VAC (SD-150D)								
PROTECTION	OVERLOAD	105 ~ 135% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVED VOLTAGE	16.8V ~ 20V/10% LOAD 31.5 ~ 37.5V/10% LOAD								
	OVER VOLTAGE	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 1	0min./1cycle, 60min.	each along X, Y, Z axe	s					
SAFETY &	SAFETY STANDARDS	IEC60950-1 CB approved by TUV (for D type only)								
	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								
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								
OTHERS	MTBF	296.2K hrs min.(SD-150B) 289.9K hrs min.(SD-150C) 289K Hrs min.(SD-150D) MIL-HDBK-217F (25°C)								
	DIMENSION	199*110*50mm (l	_*W*H)							
	PACKING	0.86Kg; 16pcs/14	.5Kg/0.95CUFT							
NOTE	Ripple & noise are measure Tolerance : includes set up	ecially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tup tolerance, line regulation and load regulation. nsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meet								



