



Features:

- 2:1 wide input range
- Protections:Short circuit/Over load/Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 83KHz
- Low cost
- High reliability
- 1 year warranty

SPECIFICATION

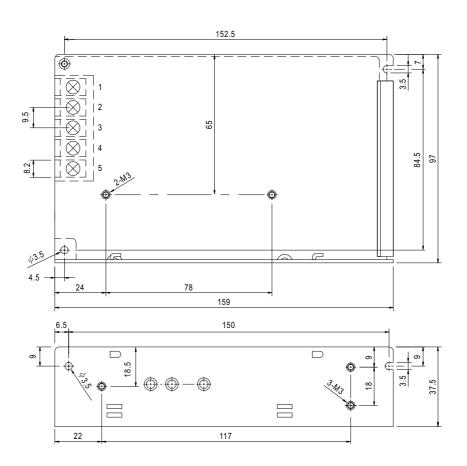
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MODEL		SD-50A-5	SD-50B-5	SD-50C-5	SD-50A-12	SD-50B-12	SD-50C-12	SD-50A-24	SD-50B-24	SD-50C-24	
ОИТРИТ	DC VOLTAGE	5V			12V			24V			
	RATED CURRENT	10A			4.2A		2.1A				
	CURRENT RANGE	0 ~ 10A			0 ~ 4.2A		0 ~ 2.1A				
	RATED POWER	50W			50.4W		50.4W				
	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, HOLD TIME	2.5s, 50ms, -	2.5s, 50ms, at full load								
INPUT	VOLTAGE RANGE	A:9.2 ~ 18VDC B:19 ~ 36VDC C:36 ~ 72VDC									
	EFFICIENCY (Typ.)	70%	73%	76%	72%	75%	78%	74%	80%	83%	
	DC CURRENT	7A/12V	7A/12V			3A/24V			1.5A/48V		
		105 ~ 150% rated output power									
	OVER LOAD	Protection type: Fold back current limiting, recovers automatically after fault condition is removed									
PROTECTION	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									
	WORKING TEMP.	-10 ~ +60 °C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	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	Design refer to LVD									
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									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, EN55024, heavy industry level, criteria A									
OTHERS	MTBF	365.6K hrs min.(SD-50A) 357.5K hrs min.(SD-50B) 368.5K Hrs min.(SD-50C) MIL-HDBK-217F (25℃)									
	DIMENSION	159*97*38mm (L*W*H)									
	PACKING		s/12.7Kg/0.75								
NOTE	 All parameters NOT specially mentioned are measured at 12,24,48VDC 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. The power 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. 										



■ Mechanical Specification

Case No. 901 Unit:mm



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC INPUT V+	4	DC OUTPUT -V
2	DC INPUT V-	5	DC OUTPUT +V
3	FG ±		

■ Derating Curve

SD-50B,C SD-50B,C SD-50B,C SD-50B,C SD-50B,C SD-50B,C SD-50B,C SD-50B,C SD-50B,C AMBIENT TEMPERATURE (°C)

■ Static Characteristics(SD-50C-24V)

