



150W Single Output DC-DC Converter

SD-150 series



■ 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







ENVENGESSESS TYPICODA JECGESSESS

MODEL		SD-150B-12	SD-150C-12	SD-150D-12	SD-150B-24	SD-150C-24	SD-150D-24	
	DC VOLTAGE	12V	05 1000 12	05 1005 12	24V	05 1000 21	05 1005 21	
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				150nVp-p			
	VOLTAGE ADJ. RANGE	11 ~ 16VDC				23 ~ 30VDC		
	VOLTAGE TOLERANCE Note.3					±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			10.570	±0.5/0		
	HOLD UP TIME (Typ.)	24ms(only D mode) at full load						
INPUT	VOLTAGE RANGE	B:19 ~ 36VDC						
	EFFICIENCY (Typ.)	75%	77%	79%	77%	80%	82%	
	() ()	8.5A/24V	4.2A/48V	2.1A/96V	8.5A/24V	4.2A/48V	2.1A/96V	
	DC CURRENT (Typ.) INRUSH CURRENT (Typ.)	D:22.5A/96VDC	4.2A/40V	2.1A/96V	0.3A/24V	4.2A/40V	2.1A/90V	
	LEAKAGE CURRENT							
	LEARAGE CURRENT	<0.75mA / 120VAC (SD-150D)						
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed						
				rs automatically after i				
	OVER VOLTAGE	16.8V ~ 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	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						
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							
	EMS IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/ENV50204, light industry level, EAC TP TC 020						
OTHERS	MTBF	2897.06K hrs min		2 (Bellcore) ; 419.6K h	rs min. MIL-HDBK	-217F (25°C)		
	DIMENSION	199*110*50mm (L						
	PACKING	0.86Kg; 16pcs/14						
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p The ambient temperature d	Illy mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. lered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit of the with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on howolease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(650). The imperation of the						



