



6.3A
samlexamerica



Fully Isolated
Converters
Industrial OEM

Model
SD-150B-24
6.3 Amps

Design Features

- 2:1 wide input range
- Protections: short circuit, overload / over voltage
- 1500 VDC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% Full load burn-in test
- 24 V and 48 V input voltage design refer to LVD
- Low cost
- High reliability

2 YEAR WARRANTY

	MODEL NO.	SD-150B-24
OUTPUT	DC VOLTAGE	24 V
	RATED CURRENT	6.3 A
	CURRENT RANGE	0 ~ 6.3 A
	RATED POWER	151.2 W
	RIPPLE & NOISE (maximum), note 2	150 mVp-p
	VOLTAGE ADJUSTMENT RANGE	23 ~ 30 VDC
	VOLTAGE TOLERANCE, note 3	± 1.0 %
	LINE REGULATION	± 0.3 %
INPUT	LOAD REGULATION	± 0.3 %
	VOLTAGE RANGE	19 ~ 36 VDC
	EFFICIENCY (Typ.)	77%
	DC CURRENT (Typ.)	6.8 A / 24 VAC
PROTECTION	INRUSH CURRENT (Typ.)	D:22.5 A / 96 VDC
	OVER LOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
ENVIRONMENT	OVER VOLTAGE	31.5 V ~ 37.5 V / 10% LOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed
	WORKING TEMPERATURE	-10 ~ +60°C (refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMPERATURE HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH
	TEMPERATURE COEFFICIENT	± 0.03 % / °C (0 ~ 50°C)
SAFETY & EMC (note 4)	VIBRATION	10 ~ 500 Hz, 2G 10 minutes / 1 cycle, period for 60 minutes each along X, Y, Z axes
	SAFETY STANDARDS	IEC60950-1 CB approved by TUV
	WITHSTAND VOLTAGE	I / P - O / P: 1.5K VAC I / P - FG: 1.5K VAC O / P - FG: 0.5K VAC
	ISOLATION RESISTANCE	I / P - O / P: I / P - FG, O / P - FG: 100M Ohms / 500 VDC / 25°C / 70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2, -3
GENERAL	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, ENV55024, Light industry level, criteria A
	MTBF	296.2K hours minutes MIL-HDBK-217F (25°C)
	DIMENSIONS, MM (L x W x H)	199 x 110 x 50
	DIMENSIONS, INCHES (L x W x H)	7.8 x 4.3 x 2
	WEIGHT, KG	0.86 Kg; 16 pcs / 14.5 Kg / 0.95 CUFT
	WEIGHT, LB	1.9

NOTE: Specifications are subject to change without notice

1. All parameters NOT specially mentioned are measured at 24,48,96 VDC input, rate load and 25°C of ambient temperature.

2. Ripple & noise are measured at 20 MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.

3. Tolerance: includes set up tolerance, line regulation and load regulation.

4. 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.