



samlexamerica®

12.5A



**Fully Isolated
Converters
Industrial OEM**

Model
SD-150D-12
12.5 Amps

2 YEAR WARRANTY

Design Features

- Dual Input: 96 VDC or 120 VAC
- Protections: Short Circuit, Overload / Over voltage
- 1500 VAC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost
- High reliability

	MODEL NO.	SD-150D-12
OUTPUT	DC VOLTAGE	12V
	RATED CURRENT	12.5A
	CURRENT RANGE	0 ~ 12.5A
	RATED POWER	150W
	RIPPLE & NOISE (maximum), Note 2	120 mVp-p
	VOLTAGE ADJUSTMENT RANGE	11 ~ 16 VDC
	VOLTAGE TOLERANCE, Note 3	± 1.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 0.5%
	SETUP, RISE TIME:	2s, 50 ms at full load
HOLD TIME (Typ.):	24 ms at full load	
INPUT	VOLTAGE	96 VDC (72 ~ 144 VDC) or 120 VAC (85 ~ 132 VAC)
	EFFICIENCY (Typ.)	79%
	DC CURRENT (Typ.)	2.7A / 96 VAC
	INRUSH CURRENT (Typ.)	22.5A / 96 VDC
	LEAKAGE CURRENT	< 0.75 mA / 120 VAC
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	16.8V ~ 20V / 10% LOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMPERATURE	-10°C ~ +60°C (refer to "De-rating Curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMPERATURE HUMIDITY	-20°C ~ +85°C, 10 ~ 95% RH
	TEMPERATURE COEFFICIENT	± 0.03 % / °C (0 ~50°C)
	VIBRATION	10 ~ 500 Hz, 2G 10 minutes / 1 cycle, period for 60 minutes each along X, Y, Z axes
SAFETY & EMC (note 4)	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
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8. Light industry level, Criteria A
GENERAL	MTBF	289K hours MIL-HDBK-217F (25°C)
	DIMENSIONS, MM (W x D x H), MM/INCH	110 x 199 x 50 / 4.3 x 7.8 x 2.0
	WEIGHT, KG/LB	0.86 / 1.9

NOTES:

1. All parameters NOT specially mentioned are measured at 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.

NOTE: Specifications are subject to change without notice

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