

150W Single Output DC-DC Converter

SD-150 series

EAE

A. in the



- 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

B

- ·Low cost
- ·High reliability
- ·2 years warranty



MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

| MODEL | | SD-150B-12 | SD-150C-12 | SD-150D-12 | SD-150B-24 | SD-150C-24 | SD-150D-24 | | |
|-----------------|---|---|--------------|--------------------|------------|------------|------------|--|--|
| OUTPUT | DC VOLTAGE | 12V | | | 24V | | | | |
| | RATED CURRENT | 12.5A | | | 6.3A | 6.3A | | | |
| | CURRENT RANGE | 0~12.5A | | | 0~6.3A | 0~6.3A | | | |
| | RATED POWER | 150W | | | 151.2W | 151.2W | | | |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | | | 150mVp-p | 150mVp-p | | | |
| | VOLTAGE ADJ. RANGE | 11~16VDC | | | 23 ~ 30VDC | 23 ~ 30VDC | | | |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% | | | ±1.0% | ±1.0% | | | |
| | LINE REGULATION | ±0.5% | | | ±0.3% | ±0.3% | | | |
| | LOAD REGULATION | ±0.5% | | | ±0.3% | ±0.3% | | | |
| | SETUP, RISE TIME | 2s, 50ms(only D mode) at full load | | | | | | | |
| | HOLD UP TIME (Typ.) | 24ms(only D mode) at full load | | | | | | | |
| INPUT | VOLTAGE RANGE | B:19 ~ 36VDC | C:36 ~ 72VDC | D:72 ~144VDC or 85 | 5 ~ 132VAC | - 132VAC | | | |
| | EFFICIENCY (Typ.) | 75% | 77% | 79% | 77% | 80% | 82% | | |
| | DC CURRENT (Typ.) | 8.5A/24V | 4.2A/48V | 2.1A/96V | 8.5A/24V | 4.2A/48V | 2.1A/96V | | |
| | INRUSH CURRENT (Typ.) | D:22.5A/96VDC | | | | | | | |
| | LEAKAGE CURRENT | <pre></pre> | | | | | | | |
| PROTECTION | | 105 ~ 135% rated output power | | | | | | | |
| | OVERLOAD | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| | | 16.8V ~ 20V/10% LOAD 31.5 ~ 37.5V/10% LOAD | | | | | | | |
| | OVER VOLTAGE | Protection type : Hiccup mode, recovers automatically after fault | | | | 1 | | | |
| 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 I/P-FG:2KVAC 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 | | | | | | | | |
| | 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. Telcordia SR-332 (Bellcore) ; 419.6K hrs min. MIL-HDBK-217F (25℃) | | | | | | | |
| | DIMENSION | 199*110*50mm (L*W*H) | | | | | | | |
| | PACKING | 0.86Kg; 16pcs/14.5Kg/0.95CUFT | | | | | | | |
| 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 | Ity mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. Ity and the ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. To tolerance, line regulation and load regulation. Jered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on the with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Jerating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500) r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | |



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