

150W Single Output DC-DC Converter

SD-150 series



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

■ Features :

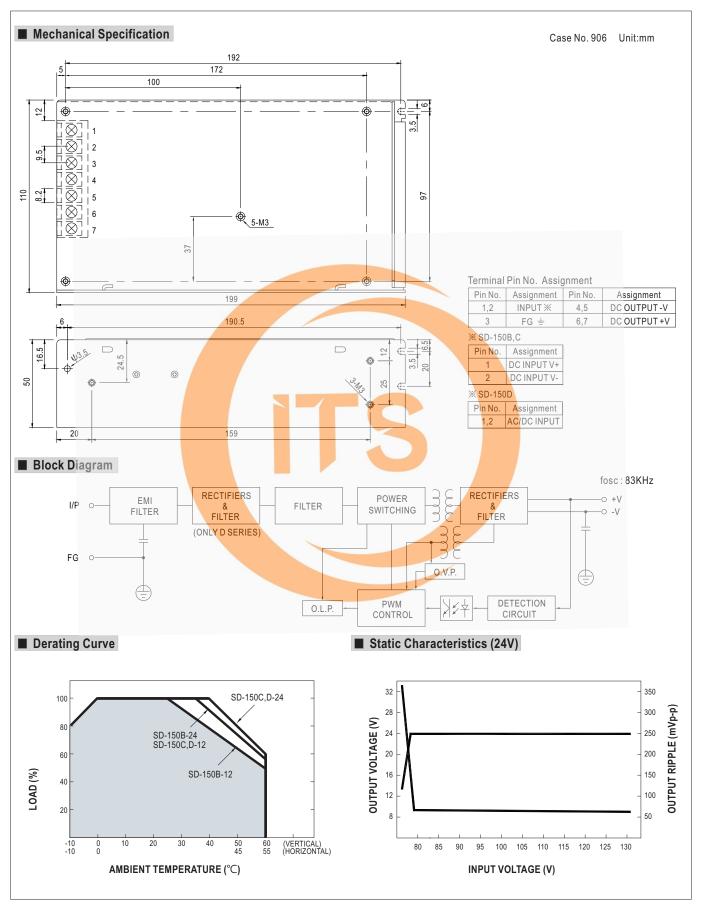
- ·2:1 wide input range
- ·Protections: Short circuit / Overload / Over voltage
- *1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- •24V and 48V input voltage design refer to LVD
- ·Low cost
- ·High reliability
- ·2 years warranty





SPECIFICATION (for D type only) MODEL SD-150B-12 SD-150C-12 SD-150D-12 SD-150B-24 SD-150C-24 SD-150D-24 DC VOLTAGE 12V RATED CURRENT **CURRENT RANGE** 0 ~ 12.5A 0 ~ 6.3A RATED POWER 151.2W RIPPLE & NOISE (max.) Note.2 120mVp-p 150mVp-p OUTPUT VOLTAGE ADJ. RANGE 11 ~ 16VDC 23 ~ 30VDC VOLTAGE TOLERANCE Note.3 ±1.0% $\pm 1.0\%$ LINE REGULATION +0.5% $\pm 0.3\%$ LOAD REGULATION ±0.3% +0.5% SETUP. RISE TIME 2s, 50ms(only D mode) at full load HOLD UP TIME (Typ.) 24ms(only D mode) at full load C:36 ~ 72VDC **VOLTAGE RANGE** B:19 ~ 36 VDC D:72 ~144VDC or 85 ~ 132VAC EFFICIENCY (Typ.) 75% 77% 79% 77% 80% 82% INPUT 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** <0.75mA/120VAC (SD-150D) 105 ~ 135% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 16.8V ~ 20V/10% LOAD 31.5 ~ 37.5V/10% LOAD **OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed -10 ~ +60°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -20 ~ +85°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY ENVIRONMENT TEMP. COEFFICIENT +0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes IEC/BS EN/EN 62368-1(for D type only), EAC TP TC 004 approved, design refer to AS/NZS 62368.1 SAFETY STANDARDS WITHSTAND VOLTAGE I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SAFFTY & ISOLATION RESISTANCE I/P-O/P. I/P-FG. O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH EMC (Note 4) **EMI CONDUCTION & RADIATION** Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020 **FMS IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, BS EN/ENV50204, light industry level, EAC TP TC 020 Telcordia SR-332 (Bellcore) ; 419.6K hrs min. MIL-HDBK-217F (25°C) MTRE 2897.06K hrs min. **OTHERS DIMENSION** 199*110*50mm (L*W*H) 0.86Kg; 16pcs/14.5Kg/0.95CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F 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. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





File Name:SD-150-SPEC 2024-02-23

