



15W Single Output DC-DC Converter



■ Features :

- 2:1 wide input range
- · Protections:Short circuit/Over load /voltage
- · Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost
- · High reliability
- · 2 years warranty



SPECIFICATION MODEL SD-15A-05 SD-15B-05 SD-15C-05 SD-15A-12 SD-15B-12 SD-15C-12 SD-15A-24 SD-15B-24 SD-15C-24 12V 24V DC VOLTAGE 5V 0.625A 1 25Δ RATED CURRENT 3A 0 ~ 1.25A 0~0.625A **CURRENT RANGE** 0 ~ 3A RATED POWER 15W 15W 15W OUTPUT RIPPLE & NOISE (max.) Note.2 100mVp-p 120mVp-p 150mVp-p 10.8~13.2VDC **VOLTAGE ADJ.RANGE** 4.75~5.5VDC 21.6~26.4VDC ±2.0% ±1.0% **VOLTAGE TOLERANCE Note.3** ±1.0% ±0.2% LINE REGULATION ±0.5% ±0.3% ±0.2% LOAD REGULATION ±0.5% ±0.3% SETUP. RISE .HOLD UP TIME 2.5s, 25ms,--- 12VDC/24VDC/48VDC at full load **VOLTAGE RANGE** A: 9.2~18VDC B:18 ~ 36VDC C:36~72VDC INPUT EFFICIENCY(Typ.) 75% 72% 76% 79% 70% 77% 78% 68% 76% DC CURRENT(Typ.) 1.9A/12VDC 0.9A/24VDC 0.45A/48VDC 105 ~160% rated output power **OVER LOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 13.8~ 16.2V 27.6 ~ 32.4V **OVER VOLTAGE** Protection type: Shut off o/p voltage, clamping by zener diode WORKING TEMP. -10 ~ +60°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing ENVIRONMENT 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** EAC TP TC 004 approved, design refer to AS/NZS 62368.1 I/P-O/P:1.5KVAC I/P-FG:1KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE **SAFETY &** I/P-O/P,I/P-FG,O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH ISOLATION RESISTANCE **EMC** (Note 4) **EMC EMISSION** Compliance to BS EN/EN55032(CISPR32), EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020 MTBF 644.2K hrs min.(SD-15A) 652.5K hrs min.(SD-15B) 653.5K Hrs min.(SD-15C) MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 78*51*28mm (L*W*H) 0.18Kg,60 PCS/11.8Kg PACKING 1. All parameters NOT specially mentioned are measured at normal 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 0.1uf & 47uf 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 http://www.meanwell.com) 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).



15W Single Output DC-DC Converter

