



Наличие и актуальные цены на

**SD-15C-5**

<https://www.mean-well.ru/store/SD-15C-5/>



## 15W Single Output DC-DC Converter

## SD-15 series



- 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

User's Manual



### GTIN CODE

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



AS/NZS62368-1 TPTC004

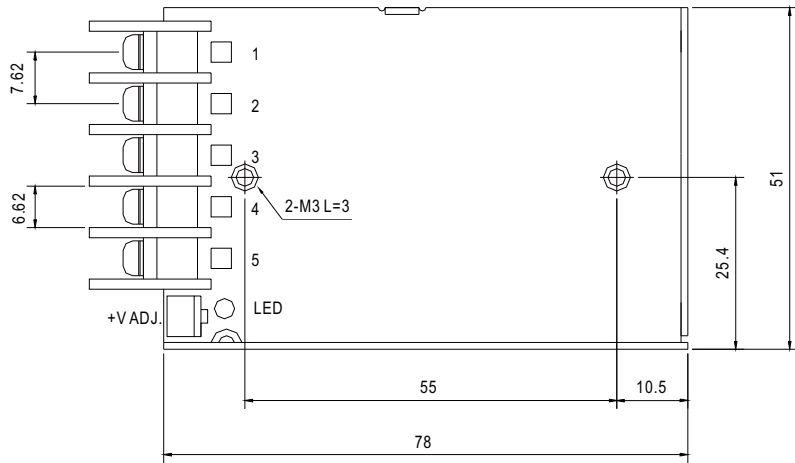
### SPECIFICATION

| 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 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------------|-------------|-----------|--------------|-----------|-----------|
| OUTPUT                                  | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5V                                                                                          |           |            | 12V          |             |           | 24V          |           |           |
|                                         | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3A                                                                                          |           |            | 1.25A        |             |           | 0.625A       |           |           |
|                                         | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 ~ 3A                                                                                      |           |            | 0 ~ 1.25A    |             |           | 0 ~ 0.625A   |           |           |
|                                         | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15W                                                                                         |           |            | 15W          |             |           | 15W          |           |           |
|                                         | RIPPLE & NOISE (max.) <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100mVp-p                                                                                    |           |            | 120mVp-p     |             |           | 150mVp-p     |           |           |
|                                         | VOLTAGE ADJ.RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4.75~5.5VDC                                                                                 |           |            | 10.8~13.2VDC |             |           | 21.6~26.4VDC |           |           |
|                                         | VOLTAGE TOLERANCE <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ±2.0%                                                                                       |           |            | ±1.0%        |             |           | ±1.0%        |           |           |
|                                         | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ±0.5%                                                                                       |           |            | ±0.3%        |             |           | ±0.2%        |           |           |
|                                         | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ±0.5%                                                                                       |           |            | ±0.3%        |             |           | ±0.2%        |           |           |
| SETUP, RISE ,HOLD UP TIME               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5s, 25ms,--- 12VDC/24VDC/48VDC at full load                                               |           |            |              |             |           |              |           |           |
| INPUT                                   | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A: 9.2 ~18VDC    B:18 ~ 36VDC    C:36~72VDC                                                 |           |            |              |             |           |              |           |           |
|                                         | EFFICIENCY(Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 68%                                                                                         | 76%       | 75%        | 72%          | 76%         | 79%       | 70%          | 77%       | 78%       |
|                                         | DC CURRENT(Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.9A/12VDC                                                                                  |           | 0.9A/24VDC |              | 0.45A/48VDC |           |              |           |           |
| PROTECTION                              | OVER LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 105 ~160% rated output power                                                                |           |            |              |             |           |              |           |           |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Protection type : Hiccup mode, recovers automatically after fault condition is removed      |           |            |              |             |           |              |           |           |
|                                         | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.75 ~ 6.75V                                                                                |           |            | 13.8~ 16.2V  |             |           | 27.6 ~ 32.4V |           |           |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Protection type : Shut off o/p voltage, clamping by zener diode                             |           |            |              |             |           |              |           |           |
| ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -10 ~ +60°C (Refer to "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 & EMC<br><small>(Note 4)</small> | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EAC TP TC 004 approved, design refer to AS/NZS 62368.1                                      |           |            |              |             |           |              |           |           |
|                                         | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | I/P-O/P:1.5KVAC    I/P-FG:1KVAC    O/P-FG:0.5KVAC                                           |           |            |              |             |           |              |           |           |
|                                         | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I/P-O/P,I/P-FG,O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH                                     |           |            |              |             |           |              |           |           |
|                                         | 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/EN55035, light industry level, EAC TP TC 020 |           |            |              |             |           |              |           |           |
| OTHERS                                  | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3861.2K hrs min.    Telcordia SR-332 (Bellcore) ; 644.2K hrs min.    MIL-HDBK-217F (25°C)   |           |            |              |             |           |              |           |           |
|                                         | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 78*51*28mm (L*W*H)                                                                          |           |            |              |             |           |              |           |           |
|                                         | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.18Kg,60 PCS/11.8Kg                                                                        |           |            |              |             |           |              |           |           |
| NOTE                                    | 1. All parameters NOT specially mentioned are measured at normal input, rated load and 25°C of ambient temperature.<br>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.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>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."<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>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).<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                             |           |            |              |             |           |              |           |           |

## Mechanical Specification

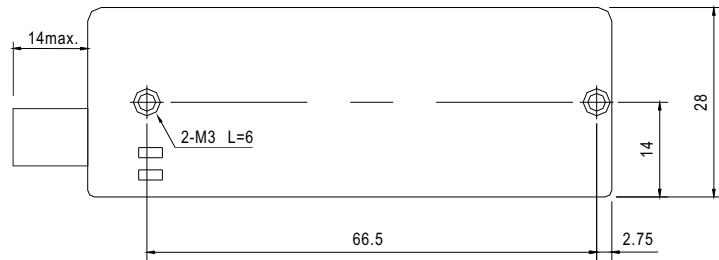
(Unit: mm , tolerance  $\pm 1$ mm)

Case No. 931A



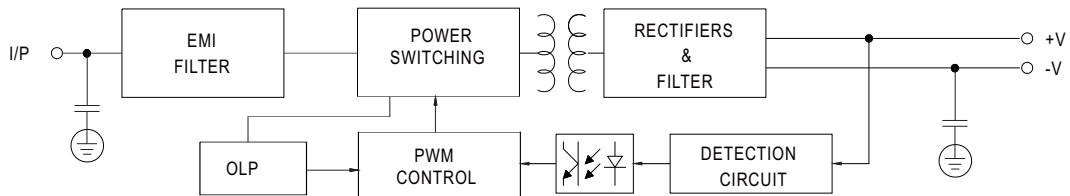
Terminal Pin No. Assignment

| Pin No. | Assignment  | Pin No. | Assignment   |
|---------|-------------|---------|--------------|
| 1       | DC INPUT V+ | 4       | DC OUTPUT +V |
| 2       | DC INPUT V- | 5       | DC OUTPUT -V |
| 3       | FG $\equiv$ |         |              |



## Block Diagram

fosc : 96KHz



## Derating Curve

