**Features:**
- 2:1 wide input range
- Protection: 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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RATED POWER</th>
<th>RIPPLE &amp; NOISE (max.) Note.2</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE, HOLD UP TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-15A-05</td>
<td>5V</td>
<td>3A</td>
<td>0 ~ 3A</td>
<td>15W</td>
<td>100mVp-p</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15B-05</td>
<td>12V</td>
<td>1.25A</td>
<td>0 ~ 1.25A</td>
<td>15W</td>
<td>120mVp-p</td>
<td>±0.2%</td>
<td>±0.3%</td>
<td>±0.3%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15C-05</td>
<td>24V</td>
<td>0.625A</td>
<td>0 ~ 0.625A</td>
<td>15W</td>
<td>150mVp-p</td>
<td>±0.5%</td>
<td>±0.3%</td>
<td>±0.2%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15A-12</td>
<td>5V</td>
<td>3A</td>
<td>0 ~ 3A</td>
<td>15W</td>
<td>100mVp-p</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15B-12</td>
<td>12V</td>
<td>1.25A</td>
<td>0 ~ 1.25A</td>
<td>15W</td>
<td>120mVp-p</td>
<td>±0.2%</td>
<td>±0.3%</td>
<td>±0.3%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15C-12</td>
<td>24V</td>
<td>0.625A</td>
<td>0 ~ 0.625A</td>
<td>15W</td>
<td>150mVp-p</td>
<td>±0.5%</td>
<td>±0.3%</td>
<td>±0.2%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15A-24</td>
<td>5V</td>
<td>3A</td>
<td>0 ~ 3A</td>
<td>15W</td>
<td>100mVp-p</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15B-24</td>
<td>12V</td>
<td>1.25A</td>
<td>0 ~ 1.25A</td>
<td>15W</td>
<td>120mVp-p</td>
<td>±0.2%</td>
<td>±0.3%</td>
<td>±0.3%</td>
<td>2.5s, 25ms, ---</td>
</tr>
<tr>
<td>SD-15C-24</td>
<td>24V</td>
<td>0.625A</td>
<td>0 ~ 0.625A</td>
<td>15W</td>
<td>150mVp-p</td>
<td>±0.5%</td>
<td>±0.3%</td>
<td>±0.2%</td>
<td>2.5s, 25ms, ---</td>
</tr>
</tbody>
</table>

- **INPUT**
  - **VOLTAGE RANGE**
    - A: 9.2 ~ 18VDC
    - B: 18 ~ 36VDC
    - C: 36 ~ 72VDC
  - **EFFICIENCY (Typ.)**
    - 68% 76% 75% 72% 76% 79% 77% 78%
  - **DC CURRENT (Typ.)**
    - 1.9A/12VDC 0.9A/24VDC 0.45A/48VDC

- **OUTPUT**
  - **RATED POWER**
    - 15W
  - **RIPPLE & NOISE (max.) Note.2**
    - 100mVp-p
  - **VOLTAGE TOLERANCE**
    - ±1.0%
  - **LINE REGULATION**
    - ±0.5%
  - **LOAD REGULATION**
    - ±0.5%
  - **SETUP, RISE, HOLD UP TIME**
    - 2.5s, 25ms, ---

- **PROTECTION**
  - **OVER LOAD**
    - Protection type: Hiccup mode, recovers automatically after fault condition is removed
  - **OVER VOLTAGE**
    - 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./cycle, 60min.each along X, Y, Z axes

- **SAFETY & EMC (Note 4)**
  - **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 EN55032(CISPR32)

- **EMC IMMUNITY**
  - Compliance to EN61000-4-2,3,4,5,6,8, EN55022, light industry level, criteria A

- **OTHERS**
  - **MTBF**
    - 644.2K hrs min. (SD-15A)  652.5K hrs min. (SD-15B)  653.9K Hrs min. (SD-15C)
  - **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.
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 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)
### Mechanical Specification

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Pin No.</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC INPUT V+</td>
<td>4</td>
<td>DC OUTPUT +V</td>
</tr>
<tr>
<td>2</td>
<td>DC INPUT V-</td>
<td>5</td>
<td>DC OUTPUT -V</td>
</tr>
<tr>
<td>3</td>
<td>FG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Block Diagram

- EMI Filter
- POWER SWITCHING
- RECTIFIERS & FILTER
- OLP
- PWM CONTROL
- DETECTION CIRCUIT
- fosc : 96KHz

### Derating Curve

![Derating Curve Graph]

**LOAD (%)**

**AMBENT TEMPERATURE (°C)**