**SDS-075M-xx Series**

75W, Single Output DC-DC Converter

**Features:**
- DC Input 19V ~ 72V (TYPICAL 48V)
- Input protection: 6.3A/250V fuses
- Inrush current limitation soft start function
- Input & output isolation
- Over voltage, over load & short circuit protection
- Output voltage ±10% adjustment
- 100% full load burn-in test
- Meet LVD standard
- 2 years warranty

**Specification:**

<table>
<thead>
<tr>
<th>INPUT</th>
<th>Voltage</th>
<th>Current &lt;4.2 A/24 V DC input full load condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>Voltage</td>
<td>5V</td>
</tr>
<tr>
<td>Min Load</td>
<td>0A</td>
<td>0A</td>
</tr>
<tr>
<td>Max Load</td>
<td>12A</td>
<td>6A</td>
</tr>
<tr>
<td>Ripple Noise</td>
<td>70mV</td>
<td>120mV</td>
</tr>
<tr>
<td>Efficiency (TYP)</td>
<td>78%</td>
<td>83%</td>
</tr>
</tbody>
</table>

**PROTECTION**
- Over Voltage: 5.8~7.0V, 13.8~16.8V, 27.6~33.6V, 55.2~67.2V
- Over Load & Short Circuit: Shutdown and latch off, recover after re-start up.
- ELEC. CHAR.
  - Rise time: <30mS
- ENVIRONMENT
  - Temperature
    - Operating: -20~+70°C; De-rating: 45~70°C, 2.5%/°C; Storage: -40~+85°C
  - Humidity
    - Operating: 20%~90% RH (non condensing); Storage: 10%~95% RH (non condensing)
- SAFETY
  - Withstand voltage: I/P-O/P:2.0KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute
  - Isolation resistance: >100MD/500VDC at 25°C/70% RH
- EMC
  - EMI: EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B
  - EMS: EN 55024: EN 61000-4-2, 3, 4, 5, 6, 8: ENV 50204
- OTHERS
  - Cooling: Natural cooling
  - M.T.B.F.: 340 K hours
  - Dimension: 129 x 95 x 38 mm
  - Packing: N.W.: 0.58 Kg/1pc, 30pcs/1.2 CUFT/1CTN

**NOTE**
- All measurements which not mentioned are based on 48VDC input, output Max at ambient 25°C/70%RH
- Output tolerance included set voltage, line regulation and load regulation.
- Ripple & noise are measured at 10~50°C condition and 20MHz of bandwidth by using a 10”~15” twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.
- The operating temperature shall follow the de-rating curve in spec
- The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.
SDS-075M-xx Series

Block Diagram: DS19

De-rating Curve:

Output De-rating Vs Input Voltage:

Dimension:

90 deg. terminal optional with plastic cover (has MOQ required)

NOTES:

<table>
<thead>
<tr>
<th>MODEL No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS-075M-xx</td>
<td>+Vin</td>
<td>-Vin</td>
<td>FG</td>
<td>-V</td>
<td>+V</td>
</tr>
</tbody>
</table>

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SDS-075M-xx Rev 0.6
RS-090014 NOV-20-2017
## SDS-075M-xx Series

### Input Voltage Connection:

<table>
<thead>
<tr>
<th>A TPYE</th>
<th>B TPYE</th>
</tr>
</thead>
<tbody>
<tr>
<td>+48V Input</td>
<td>-48V Input</td>
</tr>
</tbody>
</table>

![Input Voltage Connection Diagram](image.png)