### Features:
- 2:1 wide input range
- Protection: Short circuit / Overload / Over voltage
- 1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- Low cost
- High reliability
- 2 years warranty

### SPECIFICATION

**MODEL** | **DC VOLTAGE** | **RATED CURRENT** | **CURRENT RANGE** | **RATED POWER** | **RIPPLE & NOISE (max.)** | **VOLTAGE ADJ. RANGE** | **VOLTAGE TOLERANCE** | **LINE REGULATION** | **LOAD REGULATION** | **SETUP, RISE TIME** | **HOLD UP TIME (Typ.)** | **OVERVOLTAGE** | **OVERRIDE** | **WORKING HUMIDITY** | **TEMP. COEFFICIENT** | **VIBRATION** | **SAFETY STANDARDS** | **WITHSTAND VOLTAGE** | **ISOLATION RESISTANCE** | **EMC EMISSION** | **EMC IMMUNITY** | **MTBF** | **DIMENSION** | **PACKING** | **NOTE**
SD-100A-5 | 5V | 18A | 0 ~ 18A | 90W | 100mVp-p | 4.5 ~ 5VDC | ±2.0% | ±0.5% | ±0.5% | 2s, 50ms (only D mode) at full load | 20ms (only D mode) at full load | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100B-5 | 12V | 20A | 0 ~ 20A | 100W | 120mVp-p | 11 ~ 16VDC | ±1.0% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100C-5 | 12V | 8.5A | 0 ~ 8.5A | 4.2A | 150mVp-p | 23 ~ 30VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100A-12 | 12V | 8.5A | 0 ~ 8.5A | 4.2A | 150mVp-p | 23 ~ 30VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100B-12 | 12V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 23 ~ 30VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100C-12 | 12V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 23 ~ 30VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100A-24 | 24V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 60 ~ 90VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100B-24 | 24V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 60 ~ 90VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100C-24 | 24V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 60 ~ 90VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
SD-100D-24 | 24V | 9.5A | 0 ~ 9.5A | 5A | 150mVp-p | 60 ~ 90VDC | ±0.2% | ±0.3% | ±0.3% | ±1.0% | ±1.0% | 95 ~ 105°C | 0.05% / ℃ | 10% ~ 90% RH non-condensing | ±0.03%/℃(0 ~ 50°C) | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | IEC60950-1 CB approved by TUV (for D type only), EAC TP TC 004 approved | | |
### Mechanical Specification

![Mechanical Specification Diagram]

### Terminal Pin No. Assignment

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Pin No.</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>1,2</td>
<td>DC INPUT V+</td>
<td>4,5</td>
<td>DC OUTPUT -V</td>
</tr>
<tr>
<td>3</td>
<td>FG</td>
<td>6,7</td>
<td>DC OUTPUT +V</td>
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※ SD-100A, B, C

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<th>Pin No.</th>
<th>Assignment</th>
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<tbody>
<tr>
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<td>DC INPUT V+</td>
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<tr>
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<td>DC INPUT V-</td>
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</table>

※ SD-100D

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<th>Assignment</th>
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</thead>
<tbody>
<tr>
<td>1,2</td>
<td>AC/DC INPUT</td>
</tr>
</tbody>
</table>

### Block Diagram

![Block Diagram]

fosc : 83KHz

A-type : 65KHz
Derating Curve

Output Derating VS Input Voltage

File Name: SD-100-SPEC 2018-01-12