150W Single Output Switching Power Supply

**SPECIFICATION**

<table>
<thead>
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<tbody>
<tr>
<td>LRS-150F-5</td>
<td>9V</td>
<td>12V</td>
<td>15V</td>
<td>24V</td>
<td>36V</td>
</tr>
<tr>
<td>LRS-150F-12</td>
<td>22A</td>
<td>12.5A</td>
<td>10A</td>
<td>6.5A</td>
<td>4.3A</td>
</tr>
<tr>
<td>LRS-150F-15</td>
<td>0 to 22A</td>
<td>0 to 12.5A</td>
<td>0 to 10A</td>
<td>0 to 6.5A</td>
<td>0 to 4.3A</td>
</tr>
<tr>
<td>LRS-150F-24</td>
<td>110W</td>
<td>150W</td>
<td>150W</td>
<td>150W</td>
<td>150W</td>
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<tr>
<td>LRS-150F-36</td>
<td>150W</td>
<td>150W</td>
<td>150W</td>
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<tr>
<td>LRS-150F-48</td>
<td>150W</td>
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**OUTPUT**

- **VOLTAGE ADJ. RANGE**: 4.3 to 5.5V
  - 10.2 to 13.8V
  - 13.5 to 18V
  - 21.8 to 28.8V
  - 32.4 to 38.6V
  - 43.2 to 52.8V
- **VOLTAGE TOLERANCE**: ±2.0%
  - ±1.0%
  - ±1.0%
  - ±1.0%
  - ±1.0%
  - ±1.0%
- **LINE REGULATION**: ±0.5%
  - ±0.5%
  - ±0.5%
  - ±0.5%
  - ±0.5%
  - ±0.5%
- **LOAD REGULATION**: ±1.0%
  - ±0.5%
  - ±0.5%
  - ±0.5%
  - ±0.5%
  - ±0.5%

**INPUT**

- **INPUT VOLTAGE**: 90 to 264VAC
  - 100 ± 50/60Hz
- **EFFICIENCY**: 85%
- **AC CURRENT**: 1.84A
- **INRUSH CURRENT**: 10A
- **LEAKAGE CURRENT**: <0.75mA

**PROTECTION**

- **OVERLOAD**: 110% to 140% rated output power
- **OVERVOLTAGE**: 5.75 to 6.75V
  - 13.8 to 16.2V
  - 18.75 to 21.75V
  - 26.8 to 33.6V
  - 41.4 to 48.6V
  - 55.2 to 64.8V
- **OVER TEMPERATURE**: Shut down output voltage, re-power on to recover
- **TEMPERATURE**: 50°C to 85°C
- **VIBRATION**: 50 to 180Hz, 5G

**SAFETY & EMC (Note 7)**

- **UL60950-1, TUV EN60601-1, EN60335-1, EN61558-2-2, 1CEC G4943 approved**
- **ISOLATION RESISTANCE**: 1kV
- **EMC EMISSION**: Compliance to CISPR22
- **EMC IMMUNITY**: Compliance to EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-9, EN61000-4-14, EN61000-4-15
- **MTBF**: 500,000 hours
- **DIMENSION**: 150x92x30mm (L x W x H)
- **PACKING**: 104.8kg / 30pieces x 15.4kg / 15.25kDUPF

**NOTE**

1. All parameters NOT specially mentioned are measured at 230VAC 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 6 & 47uF parallel capacitor.
3. Tolerance / includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. Length of setup time is measured at cold start. Turning ON/OFF the power supply very quickly may lead to increase of the setup time.
7. 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 x 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)
8. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (5900ft).