### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LEP100F-24</th>
<th>LEP100F-36</th>
<th>LEP100F-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage [V]</td>
<td>+24</td>
<td>+36</td>
<td>+48</td>
</tr>
<tr>
<td>Current [A]</td>
<td>4.2 (Peak 7)</td>
<td>2.8 (Peak 4.7)</td>
<td>2.1 (Peak 3.5)</td>
</tr>
<tr>
<td>Efficiency [%]</td>
<td>81 typ (Io=100%)</td>
<td>82 typ (Io=100%)</td>
<td>83 typ (Io=100%)</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.98 typ (Io=100%)</td>
<td>0.98 typ (Io=100%)</td>
<td>0.98 typ (Io=100%)</td>
</tr>
<tr>
<td>Leakage Current [mA]</td>
<td>0.75 max (60Hz, According to IEC60950 and DEN-AN)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Input

- **VOLTAGE [V]**: AC110-264, AC 120-370
- **CURRENT [A]**: AC110V 1.4 typ (Io=100%)
- **FREQUENCY [Hz]**: 47 - 63 Hz or DC
- **EFFICIENCY [%]**: AC110V 81 typ (Io=100%) | 82 typ (Io=100%) | 83 typ (Io=100%)
- **POWER FACTOR**: AC110V 0.98 typ (Io=100%) | 0.98 typ (Io=100%) | 0.98 typ (Io=100%)
- **INRUSH CURRENT [A]**: AC110V 15 typ (Io=100%) | 10 typ (Io=100%) | 5 typ (Io=100%)
- **LEAKAGE CURRENT [mA]**: AC110V 70 typ (Io=100%)

#### Output

- **VOLTAGE [V]**: +24 | +36 | +48
- **CURRENT [A]**: 0 - 4.2 (Peak 7) | 0 - 2.8 (Peak 4.7) | 0 - 2.1 (Peak 3.5)
- **WATTAGE [W]**: 100.8 (Peak 168) | 100.8 (Peak 169.2) | 100.8 (Peak 168)
- **LINE REGULATION [mV]**: 48 max | 48 max | 48 max
- **LOAD REGULATION [mV]**: 76 max | 90 max | 150 max
- **RIPPLE [mVP-P]**: 10% to ±10% | 10% to ±10% | 10% to ±10%
- **RIPPLE NOISE [mVP-P]**: 10% to ±10% | 10% to ±10% | 10% to ±10%
- **TEMPERATURE REGULATION [°C]**: 10°C to 35°C | 10°C to 35°C | 10°C to 35°C
- **DRIFT [mV]**: 48 max | 48 max | 48 max
- **START-UP TIME [ms]**: 500 max
- **HOLD-UP TIME [ms]**: 200 max
- **OUTPUT VOLTAGE ADJUSTMENT RANGE [V]**: 21.4 - 26.4 | 26.4 - 39.6 | 39.6 - 52.8
- **OUTPUT VOLTAGE SETTING [V]**: 23.0 - 25.0 | 35.0 - 37.0 | 46.0 - 50.0

#### Protection and Others

- **OVERCURRENT PROTECTION**: Works over 110% of peak current and recovers automatically
- **OVERVOLTAGE PROTECTION**: Works at 115 - 140% of rating
- **REMOTE ON/OFF**: Option (Refer to Instruction Manual)
- **INPUT-OUTPUT - RC**: AC3-0.005 V1 minute. Cutoff current = 10mA, DC500V 500µA min (At Room Temperature)
- **INPUT-FCG**: AC3-0.005 V1 minute. Cutoff current = 10mA, DC500V 500µA min (At Room Temperature)
- **OUTPUT-RC**: AC100V 1 minute. Cutoff current = 100mA, DC100V 100µA min (At Room Temperature)
- **OPERATING TEMPERATURE AND ALTITUDE**: -10 to +70°C, 20 - 90% RH (Non condensing) | Refer to DERATING CURVE | 3.000m (10,000f feet) max
- **STORAGE TEMPERATURE AND ALTITUDE**: -20 to +75°C, 20 - 90% RH (Non condensing) | 9.000m (30,000feet) max
- **VIBRATION**: 10 - 55Hz, 19.6m/s² (2G), 15min period, 60minutes each along X, Y and Z axis
- **IMPACT**: 19.6 m/s² (2G), 11ms. once each X, Y, Z and axis
- **SAFETY AND NOISE REGULATIONS**: UL60950-1, C-UL/CSA60950-1, EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)
- **CONDUCTED NOISE**: Complies with FCC-B, CISPR22-B, EN50022-B, VCCI-B
- **HARMONIC ATTENUATOR**: Complies with IEC61000-3-2
- **OTHERS**: 75 x 35 x 222mm [2.95 x 1.38 x 8.74 inches] [W x H x D] | 380g max (with chassis & cover : 650g max)
- **COOLING METHOD**: Convection

### Ordering Information

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<td>2.1 (Peak 3.5)</td>
</tr>
<tr>
<td>Wattage [W]</td>
<td>100.8 (Peak 168)</td>
<td>100.8 (Peak 169.2)</td>
<td>100.8 (Peak 168)</td>
</tr>
<tr>
<td>Line Regulation [mV]</td>
<td>48 max</td>
<td>48 max</td>
<td>48 max</td>
</tr>
<tr>
<td>Load Regulation [mV]</td>
<td>76 max</td>
<td>90 max</td>
<td>150 max</td>
</tr>
<tr>
<td>Ripple [mVP-P]</td>
<td>10% to ±10%</td>
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</tr>
<tr>
<td>Temperature Regulation [°C]</td>
<td>10°C to 35°C</td>
<td>10°C to 35°C</td>
<td>10°C to 35°C</td>
</tr>
<tr>
<td>Drift [mV]</td>
<td>48 max</td>
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<tr>
<td>Start-Up Time [ms]</td>
<td>500 max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hold-Up Time [ms]</td>
<td>200 max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Voltage Adjustment Range [V]</td>
<td>21.4 - 26.4</td>
<td>26.4 - 39.6</td>
<td>39.6 - 52.8</td>
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<td>Output Voltage Setting [V]</td>
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<td>35.0 - 37.0</td>
<td>46.0 - 50.0</td>
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### Notes

1. Specification is changed at option, refer to Instruction Manual 6.
2. This is the value that measured on measuring board with capacitor of 22 µF within 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
3. Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
4. Applicable when remote control (option) is added.
5. Please contact us about safety approvals for the model with option.
6. Please contact us about Class C EMI/EMC filter.
7. Parallel operation with other model is not possible.
8. Derating is required when operated with chassis and cover.
9. A sound may occur from power supply at peak loading.

*Please contact us about class C EMI/EMC filter. Low leakage current type: NAM series. A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.*
Performance data

■RISE TIME & FALL TIME (LEP100F-24)

![RISE TIME & FALL TIME](image)

- ACIN 100V Load 100%
- DC Output 100ms/DIV
- AC Input 20ms/DIV

■EFFICIENCY (LEP100F-24)

![EFFICIENCY](image)

- Load factor 100%
- Load factor 50%

■INPUT HARMONIC CURRENT (LEP100F-24)

![INPUT HARMONIC CURRENT](image)

- Harmonic current standard class A (at odd number)
- Load factor 100%
- Input voltage AC 100V

■INPUT HARMONIC CURRENT (LEP100F-24)

![INPUT HARMONIC CURRENT](image)

- Harmonic current standard class A (at odd number)
- Load factor 100%
- Input voltage AC 230V
**SPECIFICATIONS**

**MODEL**
- LEP150F-24
- LEP150F-36
- LEP150F-48

**DC OUTPUT**
- 24V 6.3(peak) 12A
- 36V 4.2(peak) 8A
- 48V 3.2(peak) 6A

**VOLTAGE[V]**
- AC85 - 264 V ± 4% or DC 120 - 370 V

**CURRENT[A]**
- ACIN 100V: 2.0 typ (Io=100%)
- ACIN 200V: 1.0 typ (Io=100%)

**FREQUENCY[Hz]**
- 50/60 (47 - 63) Hz or DC

**EFFICIENCY[%]**
- ACIN 100V: 82.2 typ (Io=100%)
- ACIN 200V: 86.0 typ (Io=100%)

**POWER FACTOR**
- ACIN 100V: ACIN 100% typ

**INRUSH CURRENT[A]**
- ACIN 100V: 155 Ip (Io=100%) at cold start (Ta=25°C)
- ACIN 200V: 305 Ip (Io=100%) at cold start (Ta=25°C)

**LEAKAGE CURRENT[mA]**
- AC: 0.75 max/60Hz, According to IEC60950 and DEN-AN

**VOLTAGE[V]**
- +24
- +36
- +48

**CURRENT[A]**
- AC: 0 - 6.3 (Peak 12) A
- DC: 0 - 4.2 (Peak 8) A
- AC: 0 - 3.2 (Peak 6) A

**WATTAGE[W]**
- +24: 151.2 (Peak 288)
- +36: 151.2 (Peak 288)
- +48: 158.6 (Peak 288)

**LOAD REGULATION[mV]**
- 48 typ

**RIPPLE[mVp-p]**
- +24/36/48 typ

**TEMPERATURE REGULATION[mV]**
- +24: 120 max
- +36: 120 max
- +48: 120 max

**DRIFT[mV]**
- +24/36/48 max

**START-UP TIME[sec]**
- 500 max (ACIN 100V, Io=100%)

**HOLD-UP TIME[sec]**
- 30 typ (Io=100%)

**OUTPUTVOLTAGEADJUSTMENTSPECIFICATIONS**
- 21.4 - 26.4
- 26.4 - 39.6
- 39.6 - 52.8

**PROTECTION CIRCUIT AND OTHERS**

**OVERCURRENT PROTECTION**
- Works over 101% of peak current and recovers automatically

**OVERVOLTAGE PROTECTION**
- Works at 115 - 140% of rating

**INPUT-OUTPUT - RC**
- AC3-0.00V 1 minute. Cutoff current = 10mA. DC50V 50mA min (At Room Temperature)

**INPUT-FC**
- AC2-0.00V 1 minute. Cutoff current = 10mA. DC50V 50mA min (At Room Temperature)

**OUTPUT-RC**
- AC100V 1 minute. Cutoff current = 100mA. DC100V 10mA min (At Room Temperature)

**OPERATING TEMPERATURE AND ALTITUDE**
- -20 to +70°C, -20 - 90%RH (Condensed) Refer to DERATING CURVE. 3.000m (10.000feet) max

**STORAGE TEMP. HUMID. AND ALTITUDE**
- -20 to +75°C, -20 - 90%RH (Condensed). 9.000m (30.000feet) max

**VIBRATION**
- 10 - 55 Hz, 1.96g/m² (2g). 3 minutes period. 60 minutes each along X, Y and Z axis

**IMPACT**
- 196.1ms (20G), 11ms, once each X, Y and Z axis

**SAFETY AND NOISE REGULATIONS**

**APPROVALS**
- UL60950-1, C-UL/CSA60950-1, EN60950-1, EN60605, EN50178 Complies with DEN-AN and IEC60950-1

**CONDUCTED NOISE**
- Complies with FCC-B, CISPR22-B, EN5022-B, VCCI-B

**HARMONIC ATTENUATOR**
- Complies with IEC61000-3-2

**OTHERS**

**CASE SIZE/WEIGHT**
- 85 x 40 x 222mm [3.35 x 1.57 x 8.74 inches] (W x H x D)
- 490g max (with chassis & cover: 830g max)

**COOLING METHOD**
- Convection

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**Notes:**
3. This is the value that measured on measuring board with capacitor of 22 µF within 150ms from output terminal. Measured by 20MHz oscilloscope or Ripple Noise meter (equivalent to KEISOKU-GIKEN: RNC-06-472).
4. Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
5. Applicable when remote control (option) is added.
6. Please contact us about safety approvals for the model with option.
7. Please contact us about class C.
8. Parallel operation with other model is not possible.
9. Derating is required when operated with chassis and cover.
10. A sound may occur from power supply at peak loading.

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**ordering information**

**MODEL**
- LEP150F-24
- LEP150F-36
- LEP150F-48

**DC OUTPUT**
- +24V 6.3[Peak 12]A
- +36V 4.2[Peak 8]A
- +48V 3.2[Peak 6]A

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**Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.**
**External view**

- Voltage adjust
- Name plate

- Connector for Remote ON/OFF (option)
- Connector for -Z (option)

<table>
<thead>
<tr>
<th>I/O Connector</th>
<th>Mating Connector</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN1</td>
<td>B3P-VH</td>
<td>VHR-5N</td>
</tr>
<tr>
<td>CN2</td>
<td>B8P-VH</td>
<td>VHR-8N</td>
</tr>
<tr>
<td>CN3 (Option)</td>
<td>B2B-XH-A</td>
<td>XHP-2</td>
</tr>
<tr>
<td>CN4 (Option)</td>
<td>B3B-XH-A</td>
<td>XHP-3</td>
</tr>
</tbody>
</table>

**Performance data**

- **RISE TIME & FALL TIME (LEP150F-24)**
  - AC Input 100V lo=100%
  - DC Output
  - 100ms/Div
  - 20ms/Div

- **EFFICIENCY (LEP150F-24)**
  - Input voltage AC
  - Harmonic current standard class A (at odd number)
  - Load factor 100%
  - Input voltage AC 100V

- **INPUT HARMONIC CURRENT (LEP150F-24)**
  - Harmonic current standard class A (at odd number)
  - Load factor 100%
  - Input voltage AC 230V

**Note:**
- Weight: 490g max (with chassis & cover: 830g max)
- Tolerance: ±1% ±0.04
- Dimensions in mm, [ ]=inches
- PCB Material: CEM3
- Chassis and cover is optional.
- Mounting torque: 1.5N·m (16kgf·cm) max

*Keep drawing current per pin below 5A(7A at peak load) for CN2*
**Ordering information**

<table>
<thead>
<tr>
<th>Model</th>
<th>LEP240F-24</th>
<th>LEP240F-36</th>
<th>LEP240F-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC OUTPUT</td>
<td>+24V (10 Peak 20)A</td>
<td>+36V (6.7 Peak 13.4)A</td>
<td>+48V (5 Peak 10)A</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
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<tr>
<th>MODEL</th>
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<th>LEP240F-36</th>
<th>LEP240F-48</th>
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</thead>
<tbody>
<tr>
<td>DC OUTPUT</td>
<td>24V (Max 40% of peak current)</td>
<td>36V (Max 40% of peak current)</td>
<td>48V (Max 40% of peak current)</td>
</tr>
<tr>
<td>LINE REGULATION (mV)</td>
<td>48 max</td>
<td>48 max</td>
<td>48 max</td>
</tr>
<tr>
<td>LOAD REGULATION (mV)</td>
<td>76 max</td>
<td>90 max</td>
<td>150 max</td>
</tr>
<tr>
<td>RIPPLE (mVpp)</td>
<td>120 max</td>
<td>120 max</td>
<td>150 max</td>
</tr>
<tr>
<td>RIPPLE NOISE (mVpp)</td>
<td>120 max</td>
<td>150 max</td>
<td>350 max</td>
</tr>
<tr>
<td>TEMPERATURE REGULATION (°C)</td>
<td>120 max</td>
<td>150 max</td>
<td>240 max</td>
</tr>
<tr>
<td>DRIFT (mV)</td>
<td>48 max</td>
<td>48 max</td>
<td>48 max</td>
</tr>
<tr>
<td>START-UP TIME (ms)</td>
<td>500 max (ACIN 100V, Io=100% )</td>
<td>200 max (ACIN 100V, Io=100% )</td>
<td></td>
</tr>
<tr>
<td>OUTPUT VOLTAGE ADJUSTMENT RANGE (V)</td>
<td>21.4 - 26.4</td>
<td>26.4 - 39.6</td>
<td>39.6 - 52.8</td>
</tr>
<tr>
<td>OUTPUT VOLTAGE SETTING (V)</td>
<td>23.0 - 25.0</td>
<td>35.0 - 37.0</td>
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</table>

**PROTECTION CIRCUIT AND OTHERS**

| DC OUTPUT | 24V (Max 40% of peak current) | 36V (Max 40% of peak current) | 48V (Max 40% of peak current) |
| LINE REGULATION (mV) | 48 max | 48 max | 48 max |
| LOAD REGULATION (mV) | 76 max | 90 max | 150 max |
| RIPPLE (mVpp) | 120 max | 120 max | 150 max |
| RIPPLE NOISE (mVpp) | 120 max | 150 max | 350 max |
| TEMPERATURE REGULATION (°C) | 120 max | 150 max | 240 max |
| DRIFT (mV) | 48 max | 48 max | 48 max |
| START-UP TIME (ms) | 500 max (ACIN 100V, Io=100% ) | 200 max (ACIN 100V, Io=100% ) |  |
| OUTPUT VOLTAGE ADJUSTMENT RANGE (V) | 21.4 - 26.4 | 26.4 - 39.6 | 39.6 - 52.8 |
| OUTPUT VOLTAGE SETTING (V) | 23.0 - 25.0 | 35.0 - 37.0 | 46.0 - 50.0 |

**SAFETY AND NOISE REGULATIONS**

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**ENVIRONMENT**

| DC OUTPUT | 24V (Max 40% of peak current) | 36V (Max 40% of peak current) | 48V (Max 40% of peak current) |
| LINE REGULATION (mV) | 48 max | 48 max | 48 max |
| LOAD REGULATION (mV) | 76 max | 90 max | 150 max |
| RIPPLE (mVpp) | 120 max | 120 max | 150 max |
| RIPPLE NOISE (mVpp) | 120 max | 150 max | 350 max |
| TEMPERATURE REGULATION (°C) | 120 max | 150 max | 240 max |
| DRIFT (mV) | 48 max | 48 max | 48 max |
| START-UP TIME (ms) | 500 max (ACIN 100V, Io=100% ) | 200 max (ACIN 100V, Io=100% ) |  |
| OUTPUT VOLTAGE ADJUSTMENT RANGE (V) | 21.4 - 26.4 | 26.4 - 39.6 | 39.6 - 52.8 |
| OUTPUT VOLTAGE SETTING (V) | 23.0 - 25.0 | 35.0 - 37.0 | 46.0 - 50.0 |

**APPLICATIONS**

| DC OUTPUT | 24V (Max 40% of peak current) | 36V (Max 40% of peak current) | 48V (Max 40% of peak current) |
| LINE REGULATION (mV) | 48 max | 48 max | 48 max |
| LOAD REGULATION (mV) | 76 max | 90 max | 150 max |
| RIPPLE (mVpp) | 120 max | 120 max | 150 max |
| RIPPLE NOISE (mVpp) | 120 max | 150 max | 350 max |
| TEMPERATURE REGULATION (°C) | 120 max | 150 max | 240 max |
| DRIFT (mV) | 48 max | 48 max | 48 max |
| START-UP TIME (ms) | 500 max (ACIN 100V, Io=100% ) | 200 max (ACIN 100V, Io=100% ) |  |
| OUTPUT VOLTAGE ADJUSTMENT RANGE (V) | 21.4 - 26.4 | 26.4 - 39.6 | 39.6 - 52.8 |
| OUTPUT VOLTAGE SETTING (V) | 23.0 - 25.0 | 35.0 - 37.0 | 46.0 - 50.0 |

**SPECIAL FEATURES**

- DC OUTPUT: 24V (Max 40% of peak current) | 36V (Max 40% of peak current) | 48V (Max 40% of peak current) |
- LINE REGULATION: 48 max | 48 max | 48 max |
- LOAD REGULATION: 76 max | 90 max | 150 max |
- RIPPLE: 120 max | 120 max | 150 max |
- RIPPLE NOISE: 120 max | 150 max | 350 max |
- TEMPERATURE REGULATION: 120 max | 150 max | 240 max |
- DRIFT: 48 max | 48 max | 48 max |
- START-UP TIME: 500 max (ACIN 100V, Io=100% ) | 200 max (ACIN 100V, Io=100% ) |  |
- OUTPUT VOLTAGE ADJUSTMENT RANGE: 21.4 - 26.4 | 26.4 - 39.6 | 39.6 - 52.8 |
- OUTPUT VOLTAGE SETTING: 23.0 - 25.0 | 35.0 - 37.0 | 46.0 - 50.0 |

**NOTE**

- Specification is changed at option, refer to Instruction Manual 6.
- Please contact us about safety approvals for the model with option.  
- Derating is required when operated with chassis and cover.
- A sound may occur from power supply at peak loading.
### Performance data

**RISE TIME & FALL TIME (LEP240F-24)**

- **AC IN**: 100V
- **Io**: 100%
- **Rise Time**: 100ms/DIV
- **Fall Time**: 20ms/DIV

**EFFICIENCY (LEP240F-24)**

- **Load factor**: 100%
- **Input voltage**: AC 100V

**INPUT HARMONIC CURRENT (LEP240F-24)**

- **Harmonic current standard class A (at odd number)**
- **Load factor**: 100%
- **Input voltage**: AC 100V

**INPUT HARMONIC CURRENT (LEP240F-24)**

- **Harmonic current standard class A (at odd number)**
- **Load factor**: 100%
- **Input voltage**: AC 230V