

COSEL

TEST DATA OF LEA150F-24

(200V INPUT)

Regulated DC Power Supply

Date : Feb. 5. 1999

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Design Manager

Prepared by : T. Ohkura

Design Engineer

コーセル株式会社

COSEL CO., LTD.



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(Final Page 30)

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| Model | LEA150F-24 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|----------|-------------------|----------|-----------|------------------|------------------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|
| Item | Line Regulation 静的入力変動 | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>150</td><td>24.036</td><td>24.034</td></tr> <tr><td>160</td><td>24.036</td><td>24.034</td></tr> <tr><td>170</td><td>24.036</td><td>24.034</td></tr> <tr><td>180</td><td>24.036</td><td>24.034</td></tr> <tr><td>200</td><td>24.036</td><td>24.034</td></tr> <tr><td>220</td><td>24.036</td><td>24.034</td></tr> <tr><td>240</td><td>24.035</td><td>24.033</td></tr> <tr><td>264</td><td>24.035</td><td>24.033</td></tr> <tr><td>280</td><td>24.035</td><td>24.033</td></tr> </tbody> </table> | | Input Voltage [V] | Load 50% | Load 100% | Output Volt. [V] | Output Volt. [V] | 150 | 24.036 | 24.034 | 160 | 24.036 | 24.034 | 170 | 24.036 | 24.034 | 180 | 24.036 | 24.034 | 200 | 24.036 | 24.034 | 220 | 24.036 | 24.034 | 240 | 24.035 | 24.033 | 264 | 24.035 | 24.033 | 280 | 24.035 | 24.033 |
| Input Voltage [V] | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Output Volt. [V] | Output Volt. [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 24.036 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 24.035 | 24.033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 24.035 | 24.033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 24.035 | 24.033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

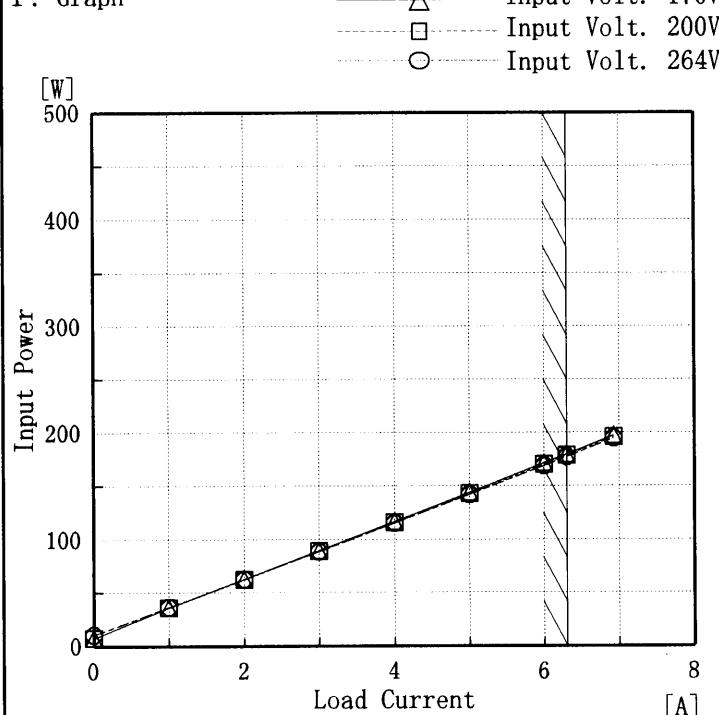
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| Model | LEA150F-24 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-----------------------|---------------------|-------------------|--|--|-----------------------|-----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Input Current (by Load Current) 入力電流 (負荷特性) | Humidity | 40%RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | — | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The graph plots Input Current [A] on the y-axis (0 to 2) against Load Current [A] on the x-axis (0 to 8). Three sets of data points are shown for Input Volt. 170V (triangles), Input Volt. 200V (squares), and Input Volt. 264V (circles). Each set includes a solid line connecting the points and a dashed line parallel to it. A slanted line is drawn across the graph, starting from approximately (0.5, 0.15) and ending at (6.93, 1.20), representing the rated load current range.</p> | | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.09</td><td>0.10</td><td>0.12</td></tr> <tr><td>1.00</td><td>0.26</td><td>0.24</td><td>0.21</td></tr> <tr><td>2.00</td><td>0.42</td><td>0.37</td><td>0.31</td></tr> <tr><td>3.00</td><td>0.58</td><td>0.50</td><td>0.41</td></tr> <tr><td>4.00</td><td>0.73</td><td>0.64</td><td>0.51</td></tr> <tr><td>5.00</td><td>0.89</td><td>0.77</td><td>0.61</td></tr> <tr><td>6.00</td><td>1.05</td><td>0.90</td><td>0.71</td></tr> <tr><td>6.30</td><td>1.10</td><td>0.94</td><td>0.75</td></tr> <tr><td>6.93</td><td>1.20</td><td>1.03</td><td>0.81</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | | Load Current [A] | Input Current [A] | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.00 | 0.09 | 0.10 | 0.12 | 1.00 | 0.26 | 0.24 | 0.21 | 2.00 | 0.42 | 0.37 | 0.31 | 3.00 | 0.58 | 0.50 | 0.41 | 4.00 | 0.73 | 0.64 | 0.51 | 5.00 | 0.89 | 0.77 | 0.61 | 6.00 | 1.05 | 0.90 | 0.71 | 6.30 | 1.10 | 0.94 | 0.75 | 6.93 | 1.20 | 1.03 | 0.81 | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.09 | 0.10 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0.26 | 0.24 | 0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.42 | 0.37 | 0.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0.58 | 0.50 | 0.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0.73 | 0.64 | 0.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 0.89 | 0.77 | 0.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 1.05 | 0.90 | 0.71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 1.10 | 0.94 | 0.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 1.20 | 1.03 | 0.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated load current | | (注)斜線は定格負荷電流範囲を示す。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | |
|--------|---|
| Model | LEA150F-24 |
| Item | Input Power (by Load Current) 入力電力（負荷特性） |
| Output | _____ |

1. Graph



Note: Slanted line shows the range of the rated load current

(注)斜線は定格負荷電流範囲を示す。

Temperature 25°C
 Humidity 40%RH
 Testing Circuitry Figure A

2. Values

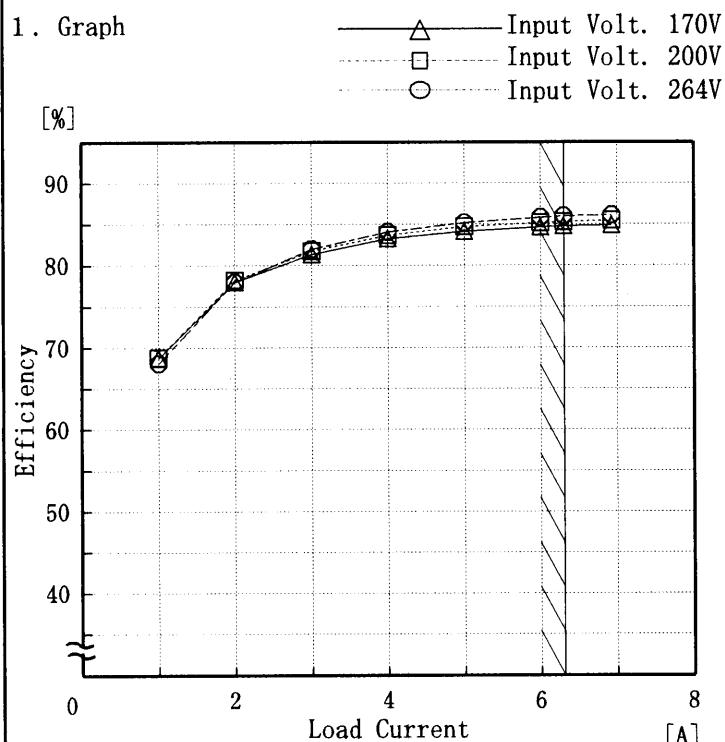
| Load Current [A] | Input Power [W] | | |
|---------------------|-----------------------|-----------------------|-----------------------|
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] |
| 0.00 | 7 | 8 | 11 |
| 1.00 | 36 | 36 | 36 |
| 2.00 | 63 | 63 | 63 |
| 3.00 | 90 | 89 | 89 |
| 4.00 | 117 | 116 | 115 |
| 5.00 | 144 | 143 | 142 |
| 6.00 | 172 | 170 | 169 |
| 6.30 | 180 | 179 | 177 |
| 6.93 | 198 | 196 | 195 |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

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| Model | LEA150F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------------------|----------|-----------|----------------|----------------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| Item | Efficiency (by Input Voltage) 効率 (入力電圧特性) | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>Efficiency [%]</p> <p>Input Voltage [V]</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1. Graph</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: □ Load 50% ▲ Load 100%</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Input Voltage [V] | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Efficiency [%] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 81.48 | 83.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 81.64 | 84.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 81.83 | 84.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 82.21 | 84.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 82.73 | 85.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 83.01 | 85.65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 83.43 | 85.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 83.43 | 86.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 83.47 | 85.65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(注) 斜線は定格入力電圧範囲を示す。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|--|
| Model | LEA150F-24 |
| Item | Efficiency (by Load Current) 効率(負荷特性) |
| Output | _____ |



Note: Slanted line shows the range of the rated load current

(注)斜線は定格負荷電流範囲を示す。

Temperature 25°C
Humidity 40%RH
Testing Circuitry Figure A

2. Values

| Load Current [A] | Efficiency [%] | | |
|---------------------|-----------------------|-----------------------|-----------------------|
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] |
| 1.00 | 68.7 | 68.8 | 68.1 |
| 2.00 | 78.0 | 78.2 | 78.0 |
| 3.00 | 81.4 | 81.8 | 82.0 |
| 4.00 | 83.3 | 83.7 | 84.1 |
| 5.00 | 84.2 | 84.7 | 85.2 |
| 6.00 | 84.7 | 85.2 | 85.8 |
| 6.30 | 84.8 | 85.3 | 86.0 |
| 6.93 | 84.9 | 85.5 | 86.1 |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

COSEL

| Model | LEA150F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------|-------------------------|--------------------------|--------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Item | Power Factor (by Input Voltage) 力率(入力電圧特性) | Temperature 25°C Humidity 40%RH Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>Legend: □ load 50% △ load 100%</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Input Voltage [V]</th> <th>Power Factor (load 50%)</th> <th>Power Factor (load 100%)</th> </tr> </thead> <tbody> <tr><td>150</td><td>0.92</td><td>0.96</td></tr> <tr><td>160</td><td>0.91</td><td>0.95</td></tr> <tr><td>170</td><td>0.90</td><td>0.94</td></tr> <tr><td>180</td><td>0.89</td><td>0.93</td></tr> <tr><td>200</td><td>0.87</td><td>0.92</td></tr> <tr><td>220</td><td>0.85</td><td>0.91</td></tr> <tr><td>240</td><td>0.84</td><td>0.90</td></tr> <tr><td>260</td><td>0.81</td><td>0.88</td></tr> <tr><td>280</td><td>0.46</td><td>0.57</td></tr> </tbody> </table> | | Input Voltage [V] | Power Factor (load 50%) | Power Factor (load 100%) | 150 | 0.92 | 0.96 | 160 | 0.91 | 0.95 | 170 | 0.90 | 0.94 | 180 | 0.89 | 0.93 | 200 | 0.87 | 0.92 | 220 | 0.85 | 0.91 | 240 | 0.84 | 0.90 | 260 | 0.81 | 0.88 | 280 | 0.46 | 0.57 | | |
| Input Voltage [V] | Power Factor (load 50%) | Power Factor (load 100%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 0.92 | 0.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 0.91 | 0.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 0.90 | 0.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 0.89 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0.87 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 0.85 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 0.84 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 260 | 0.81 | 0.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 0.46 | 0.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>load 50%</th> <th>load 100%</th> </tr> <tr> <th>Power Factor</th> <th>Power Factor</th> </tr> </thead> <tbody> <tr><td>150</td><td>0.93</td><td>0.97</td></tr> <tr><td>160</td><td>0.92</td><td>0.96</td></tr> <tr><td>170</td><td>0.91</td><td>0.96</td></tr> <tr><td>180</td><td>0.90</td><td>0.95</td></tr> <tr><td>200</td><td>0.88</td><td>0.94</td></tr> <tr><td>220</td><td>0.86</td><td>0.93</td></tr> <tr><td>240</td><td>0.84</td><td>0.92</td></tr> <tr><td>264</td><td>0.81</td><td>0.90</td></tr> <tr><td>280</td><td>0.46</td><td>0.57</td></tr> </tbody> </table> | | Input Voltage [V] | load 50% | load 100% | Power Factor | Power Factor | 150 | 0.93 | 0.97 | 160 | 0.92 | 0.96 | 170 | 0.91 | 0.96 | 180 | 0.90 | 0.95 | 200 | 0.88 | 0.94 | 220 | 0.86 | 0.93 | 240 | 0.84 | 0.92 | 264 | 0.81 | 0.90 | 280 | 0.46 | 0.57 |
| Input Voltage [V] | load 50% | load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Power Factor | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 0.93 | 0.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 0.92 | 0.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 0.91 | 0.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 0.90 | 0.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0.88 | 0.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 0.86 | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 0.84 | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 0.81 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 0.46 | 0.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated input voltage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (注)斜線は定格入力電圧範囲を示す。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | LEA150F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|-----------------------|-------------------------------|---------------------|--------------|--|--|-----------------------|-----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Power Factor (by Load Current) 力率 (負荷電流特性) | Temperature 25°C | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 170V (△) Input Volt. 200V (□) Input Volt. 264V (○) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Power Factor</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.48</td><td>0.39</td><td>0.33</td></tr> <tr><td>1.00</td><td>0.80</td><td>0.75</td><td>0.64</td></tr> <tr><td>2.00</td><td>0.88</td><td>0.84</td><td>0.75</td></tr> <tr><td>3.00</td><td>0.91</td><td>0.88</td><td>0.81</td></tr> <tr><td>4.00</td><td>0.93</td><td>0.91</td><td>0.85</td></tr> <tr><td>5.00</td><td>0.95</td><td>0.93</td><td>0.87</td></tr> <tr><td>6.00</td><td>0.96</td><td>0.94</td><td>0.89</td></tr> <tr><td>6.30</td><td>0.96</td><td>0.94</td><td>0.90</td></tr> <tr><td>6.93</td><td>0.96</td><td>0.95</td><td>0.91</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | | | Load Current [A] | Power Factor | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.00 | 0.48 | 0.39 | 0.33 | 1.00 | 0.80 | 0.75 | 0.64 | 2.00 | 0.88 | 0.84 | 0.75 | 3.00 | 0.91 | 0.88 | 0.81 | 4.00 | 0.93 | 0.91 | 0.85 | 5.00 | 0.95 | 0.93 | 0.87 | 6.00 | 0.96 | 0.94 | 0.89 | 6.30 | 0.96 | 0.94 | 0.90 | 6.93 | 0.96 | 0.95 | 0.91 | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.48 | 0.39 | 0.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0.80 | 0.75 | 0.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.88 | 0.84 | 0.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0.91 | 0.88 | 0.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0.93 | 0.91 | 0.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 0.95 | 0.93 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 0.96 | 0.94 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 0.96 | 0.94 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 0.96 | 0.95 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Slanted line shows the range of the rated load current

(注)斜線は定格負荷電流範囲を示す。

COSEL

| Model | LEA150F-24 | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|----------------------------------|---|--|-------------------|----------|-----------|-------------------|-------------------|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|
| Item | Hold-Up Time 出力保持時間 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Hold-Up Time [ms]</th> <th>Hold-Up Time [ms]</th> </tr> </thead> <tbody> <tr><td>150</td><td>74</td><td>34</td></tr> <tr><td>160</td><td>75</td><td>35</td></tr> <tr><td>170</td><td>75</td><td>35</td></tr> <tr><td>180</td><td>76</td><td>36</td></tr> <tr><td>200</td><td>77</td><td>37</td></tr> <tr><td>220</td><td>78</td><td>37</td></tr> <tr><td>240</td><td>78</td><td>38</td></tr> <tr><td>264</td><td>79</td><td>38</td></tr> <tr><td>280</td><td>81</td><td>39</td></tr> </tbody> </table> | | Input Voltage [V] | Load 50% | Load 100% | Hold-Up Time [ms] | Hold-Up Time [ms] | 150 | 74 | 34 | 160 | 75 | 35 | 170 | 75 | 35 | 180 | 76 | 36 | 200 | 77 | 37 | 220 | 78 | 37 | 240 | 78 | 38 | 264 | 79 | 38 | 280 | 81 | 39 |
| Input Voltage [V] | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hold-Up Time [ms] | Hold-Up Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 74 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 75 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 75 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 76 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 77 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 78 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 78 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 79 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 81 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | LEA150F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|----------------------------------|--------------------|------------------|-------------|-------------|-------------|------|-----|-----|-----|------|-----|-----|-----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| Item | Instantaneous Interruption Compensation 瞬時停電保障 | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24V 6.3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 170V (△) Input Volt. 200V (□) Input Volt. 264V (○) <p>Approximate data points from graph:</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>170[V] [ms]</th> <th>200[V] [ms]</th> <th>264[V] [ms]</th> </tr> </thead> <tbody> <tr><td>1.00</td><td>215</td><td>221</td><td>223</td></tr> <tr><td>2.00</td><td>106</td><td>112</td><td>114</td></tr> <tr><td>3.00</td><td>68</td><td>72</td><td>73</td></tr> <tr><td>4.00</td><td>53</td><td>55</td><td>56</td></tr> <tr><td>5.00</td><td>40</td><td>43</td><td>44</td></tr> <tr><td>6.00</td><td>32</td><td>35</td><td>36</td></tr> <tr><td>6.30</td><td>31</td><td>32</td><td>34</td></tr> <tr><td>6.93</td><td>28</td><td>29</td><td>30</td></tr> </tbody> </table> | | | | Load Current [A] | 170[V] [ms] | 200[V] [ms] | 264[V] [ms] | 1.00 | 215 | 221 | 223 | 2.00 | 106 | 112 | 114 | 3.00 | 68 | 72 | 73 | 4.00 | 53 | 55 | 56 | 5.00 | 40 | 43 | 44 | 6.00 | 32 | 35 | 36 | 6.30 | 31 | 32 | 34 | 6.93 | 28 | 29 | 30 |
| Load Current [A] | 170[V] [ms] | 200[V] [ms] | 264[V] [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 215 | 221 | 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 106 | 112 | 114 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 68 | 72 | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 53 | 55 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 40 | 43 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 32 | 35 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 31 | 32 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 28 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Current [A] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Time [mS] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 215 | 221 | 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 106 | 112 | 114 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 68 | 72 | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 53 | 55 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 40 | 43 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 32 | 35 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 31 | 32 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 28 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note: Slanted line shows the range of the rated load current.

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注) 斜線は定格負荷電流範囲を示す。

COSEL

| Model | LEA150F-24 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|---|---|---|---|
| Item | Load Regulation 靜的負荷変動 | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 170V (△) Input Volt. 200V (□) Input Volt. 264V (○) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr> <td>0.0</td><td>24.040</td><td>24.040</td><td>24.039</td></tr> <tr> <td>1.0</td><td>24.038</td><td>24.038</td><td>24.038</td></tr> <tr> <td>2.0</td><td>24.038</td><td>24.037</td><td>24.037</td></tr> <tr> <td>3.0</td><td>24.037</td><td>24.037</td><td>24.036</td></tr> <tr> <td>4.0</td><td>24.037</td><td>24.036</td><td>24.036</td></tr> <tr> <td>5.0</td><td>24.036</td><td>24.036</td><td>24.035</td></tr> <tr> <td>6.0</td><td>24.035</td><td>24.035</td><td>24.035</td></tr> <tr> <td>6.3</td><td>24.035</td><td>24.035</td><td>24.035</td></tr> <tr> <td>6.9</td><td>24.035</td><td>24.034</td><td>24.034</td></tr> <tr> <td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | | | Load Current [A] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | Output Volt. [V] | Output Volt. [V] | Output Volt. [V] | 0.0 | 24.040 | 24.040 | 24.039 | 1.0 | 24.038 | 24.038 | 24.038 | 2.0 | 24.038 | 24.037 | 24.037 | 3.0 | 24.037 | 24.037 | 24.036 | 4.0 | 24.037 | 24.036 | 24.036 | 5.0 | 24.036 | 24.036 | 24.035 | 6.0 | 24.035 | 24.035 | 24.035 | 6.3 | 24.035 | 24.035 | 24.035 | 6.9 | 24.035 | 24.034 | 24.034 | — | — | — | — |
| Load Current [A] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Output Volt. [V] | Output Volt. [V] | Output Volt. [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 24.040 | 24.040 | 24.039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 24.038 | 24.038 | 24.038 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 24.038 | 24.037 | 24.037 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 24.037 | 24.037 | 24.036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 24.037 | 24.036 | 24.036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 24.036 | 24.036 | 24.035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 24.035 | 24.035 | 24.035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.3 | 24.035 | 24.035 | 24.035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9 | 24.035 | 24.034 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Slanted line shows the range of the rated load current.

(注)斜線は定格負荷電流範囲を示す。

COSEL

| Model | LEA150F-24 | Temperature Testing Circuitry 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Ripple Voltage(by Load Current) リップル電圧(負荷電流特性) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>[mV]</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 170 [V] Ripple Output Volt. [mV]</th> <th>Input Volt. 264 [V] Ripple Output Volt. [mV]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>10</td><td>10</td></tr> <tr><td>1.3</td><td>20</td><td>20</td></tr> <tr><td>2.5</td><td>25</td><td>25</td></tr> <tr><td>3.8</td><td>30</td><td>30</td></tr> <tr><td>5.0</td><td>35</td><td>35</td></tr> <tr><td>6.3</td><td>45</td><td>45</td></tr> <tr><td>6.9</td><td>50</td><td>50</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | Load Current [A] | Input Volt. 170 [V] Ripple Output Volt. [mV] | Input Volt. 264 [V] Ripple Output Volt. [mV] | 0.0 | 10 | 10 | 1.3 | 20 | 20 | 2.5 | 25 | 25 | 3.8 | 30 | 30 | 5.0 | 35 | 35 | 6.3 | 45 | 45 | 6.9 | 50 | 50 | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Input Volt. 170 [V] Ripple Output Volt. [mV] | Input Volt. 264 [V] Ripple Output Volt. [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | 25 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 35 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.3 | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Ripple Voltage is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

リップル電圧は、下図 p - p 値で示される。

(注)斜線は定格負荷電流範囲を示す。

- T1: Due to AC Input Line
入力商用周期
- T2: Due to Switching
スイッチング 周期

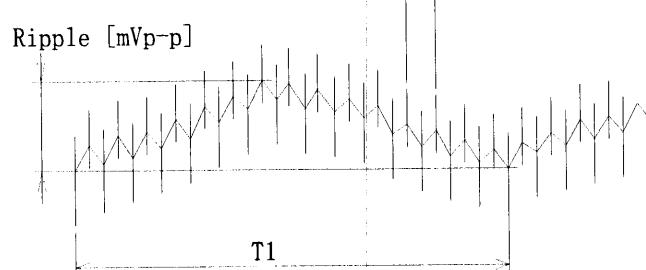
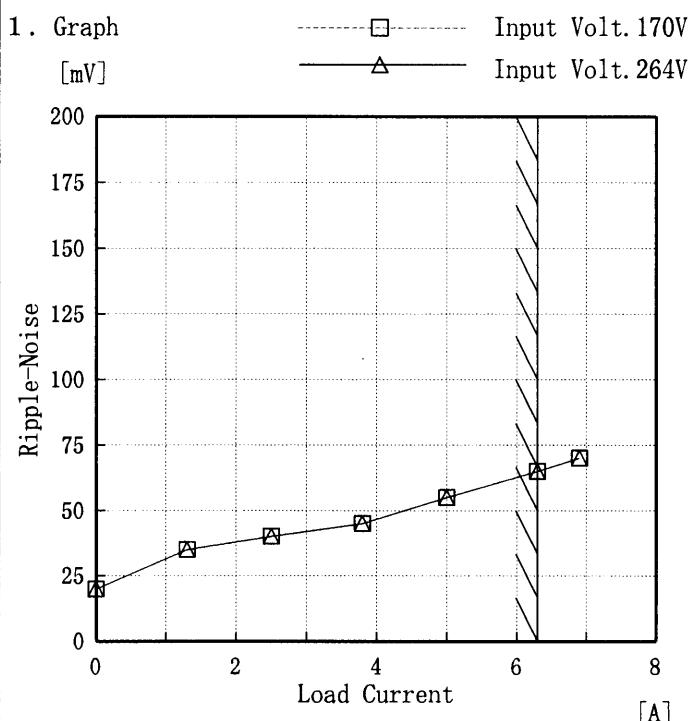


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

COSEL

| | |
|--------|----------------------|
| Model | LEA150F-24 |
| Item | Ripple-Noise リップルノイズ |
| Object | +24.0V 6.30A |

Temperature 25°C
Testing Circuitry Figure A



2. Values

| Load current [A] | Input Volt. 170 [V] | Input Volt. 264 [V] |
|------------------|---------------------|---------------------|
| | Ripple-Noise [mV] | Ripple-Noise [mV] |
| 0.0 | 20 | 20 |
| 1.3 | 35 | 35 |
| 2.5 | 40 | 40 |
| 3.8 | 45 | 45 |
| 5.0 | 55 | 55 |
| 6.3 | 65 | 65 |
| 6.9 | 70 | 70 |
| — | — | — |
| — | — | — |
| — | — | — |
| — | — | — |

Ripple-Noise is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p - p 値で示される。

(注)斜線は定格負荷電流範囲を示す。

- T1: Due to AC Input Line
入力商用周期
- T2: Due to Switching
スイッチング周期

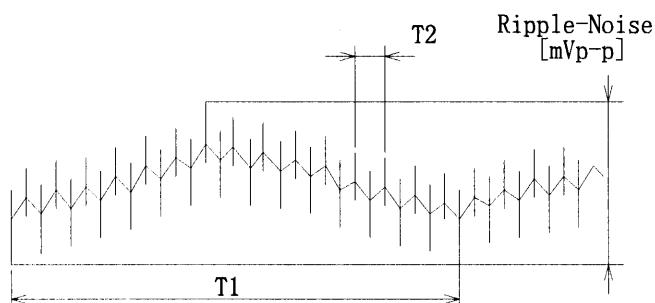


Fig. Complex Ripple Wave Form

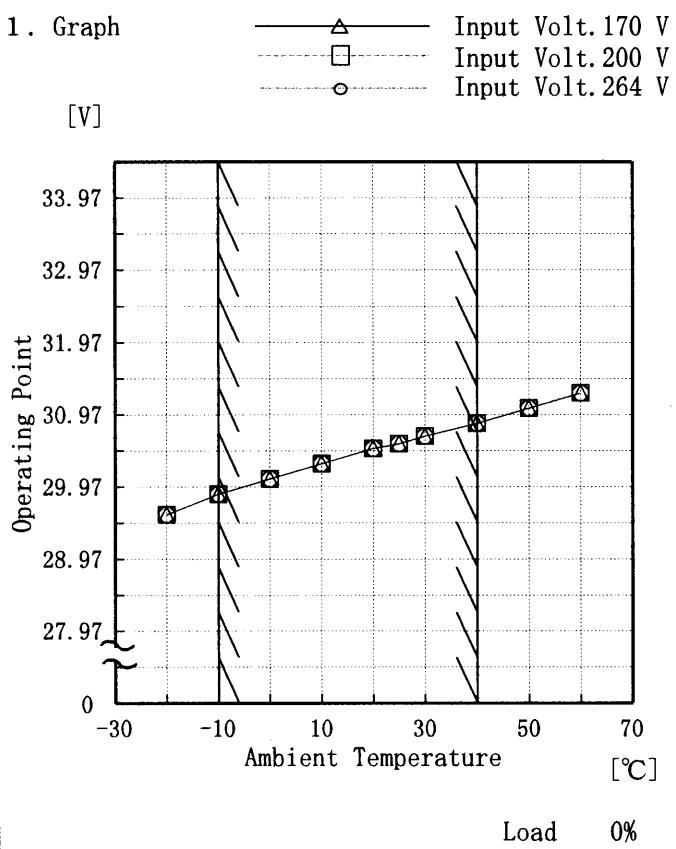
図 リップル波形詳細図

COSEL

| Model | LEA150F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Overcurrent Protection 過電流保護 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> <tr> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> </tr> </thead> <tbody> <tr><td>24.00</td><td>7.66</td><td>7.69</td><td>7.70</td></tr> <tr><td>22.80</td><td>7.69</td><td>7.72</td><td>7.73</td></tr> <tr><td>21.60</td><td>7.72</td><td>7.74</td><td>7.74</td></tr> <tr><td>19.20</td><td>7.74</td><td>7.75</td><td>7.76</td></tr> <tr><td>16.80</td><td>7.76</td><td>7.77</td><td>7.77</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Output Voltage [V] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | Load Current [A] | Load Current [A] | Load Current [A] | 24.00 | 7.66 | 7.69 | 7.70 | 22.80 | 7.69 | 7.72 | 7.73 | 21.60 | 7.72 | 7.74 | 7.74 | 19.20 | 7.74 | 7.75 | 7.76 | 16.80 | 7.76 | 7.77 | 7.77 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Output Voltage [V] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load Current [A] | Load Current [A] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.00 | 7.66 | 7.69 | 7.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22.80 | 7.69 | 7.72 | 7.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21.60 | 7.72 | 7.74 | 7.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19.20 | 7.74 | 7.75 | 7.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.80 | 7.76 | 7.77 | 7.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> <p>16.8V以下は間欠状態。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|---------------------------------|
| Model | LEA150F-24 |
| Item | Overvoltage Protection 過電圧保護 |
| Object | +24.0 V 6.3A |



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

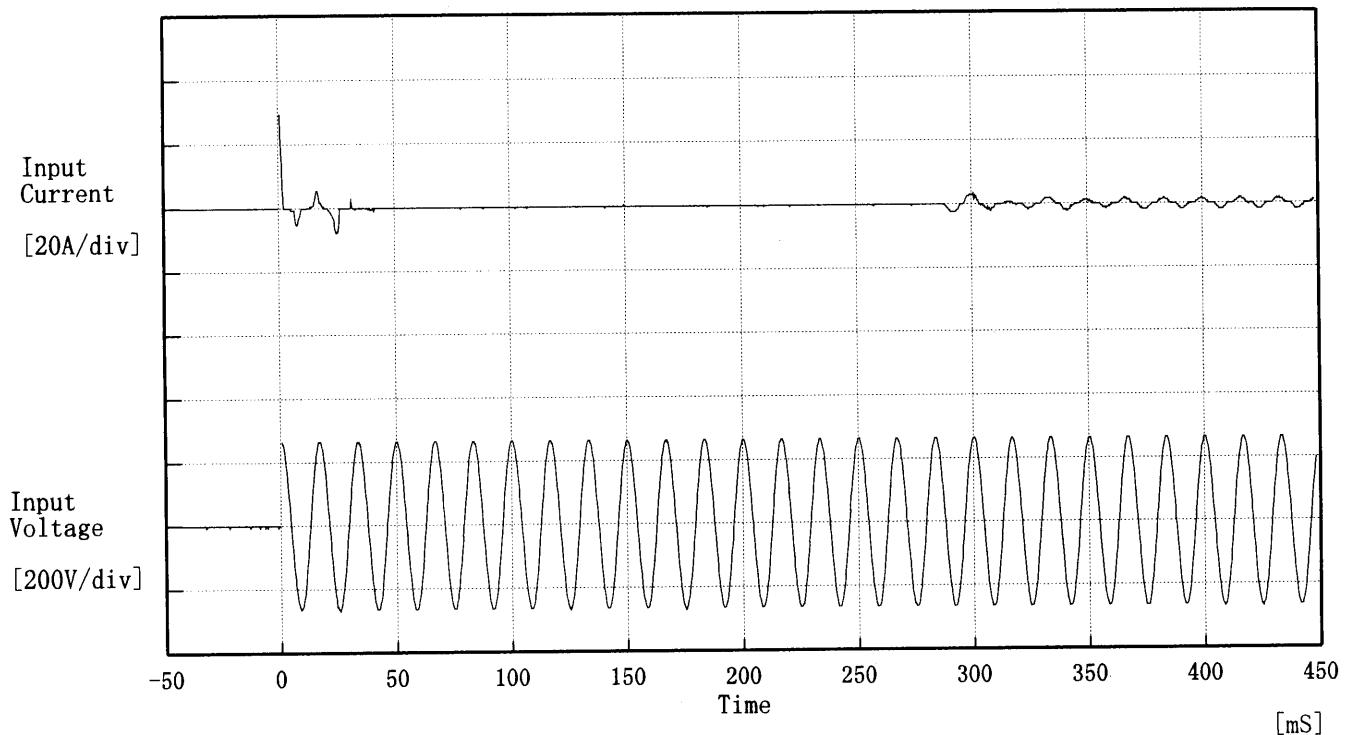
Testing Circuitry Figure A

2. Values

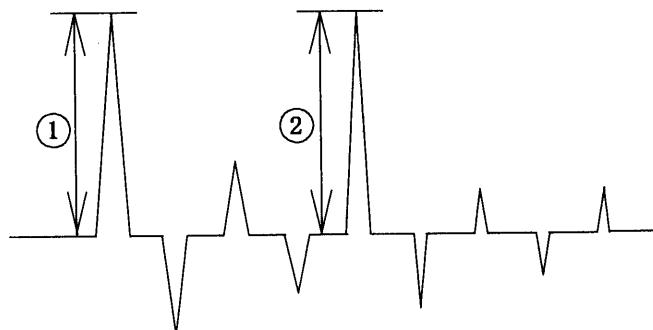
| Ambient Temp. [°C] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] |
|-----------------------|-----------------------|-----------------------|-----------------------|
| | Operating Point [V] | | |
| -20 | 29.59 | 29.59 | 29.59 |
| -10 | 29.87 | 29.87 | 29.87 |
| 0 | 30.08 | 30.08 | 30.08 |
| 10 | 30.29 | 30.29 | 30.29 |
| 20 | 30.50 | 30.50 | 30.50 |
| 25 | 30.57 | 30.57 | 30.57 |
| 30 | 30.67 | 30.67 | 30.67 |
| 40 | 30.85 | 30.85 | 30.85 |
| 50 | 31.06 | 31.06 | 31.06 |
| 60 | 31.27 | 31.27 | 31.27 |
| — | — | — | — |

COSEL

| | | | |
|--------|---------------------|--|------|
| Model | LEA150F-24 | Temperature Testing Circuitry Figure A | 25°C |
| Item | Inrush Current 突入電流 | | |
| Object | _____ | | |



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 29.40 [A]
 ② 3.60 [A]

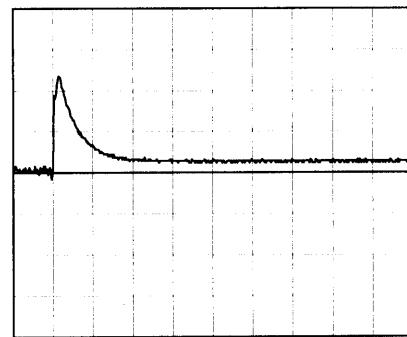
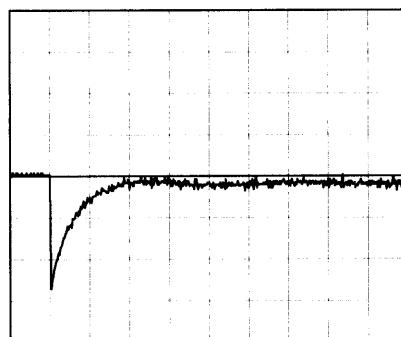
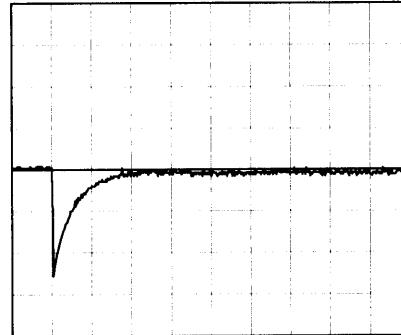


COSEL

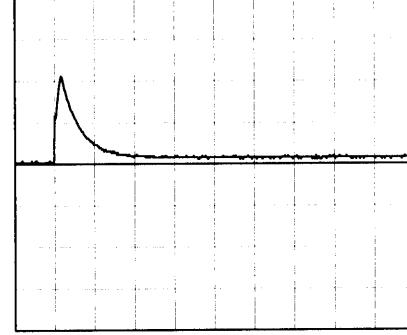
Model LEA150F-24

Item Dynamic Load Response
動的負荷変動

Object +24V 6.3A

Temperature 25°C
Testing Circuitry Figure AInput Volt. 200 V
Cycle 1000 mSMin. Load ↔
Load 100 %Min. Load ↔
Load 50 %

50 mV/div



10 ms/div

COSEL

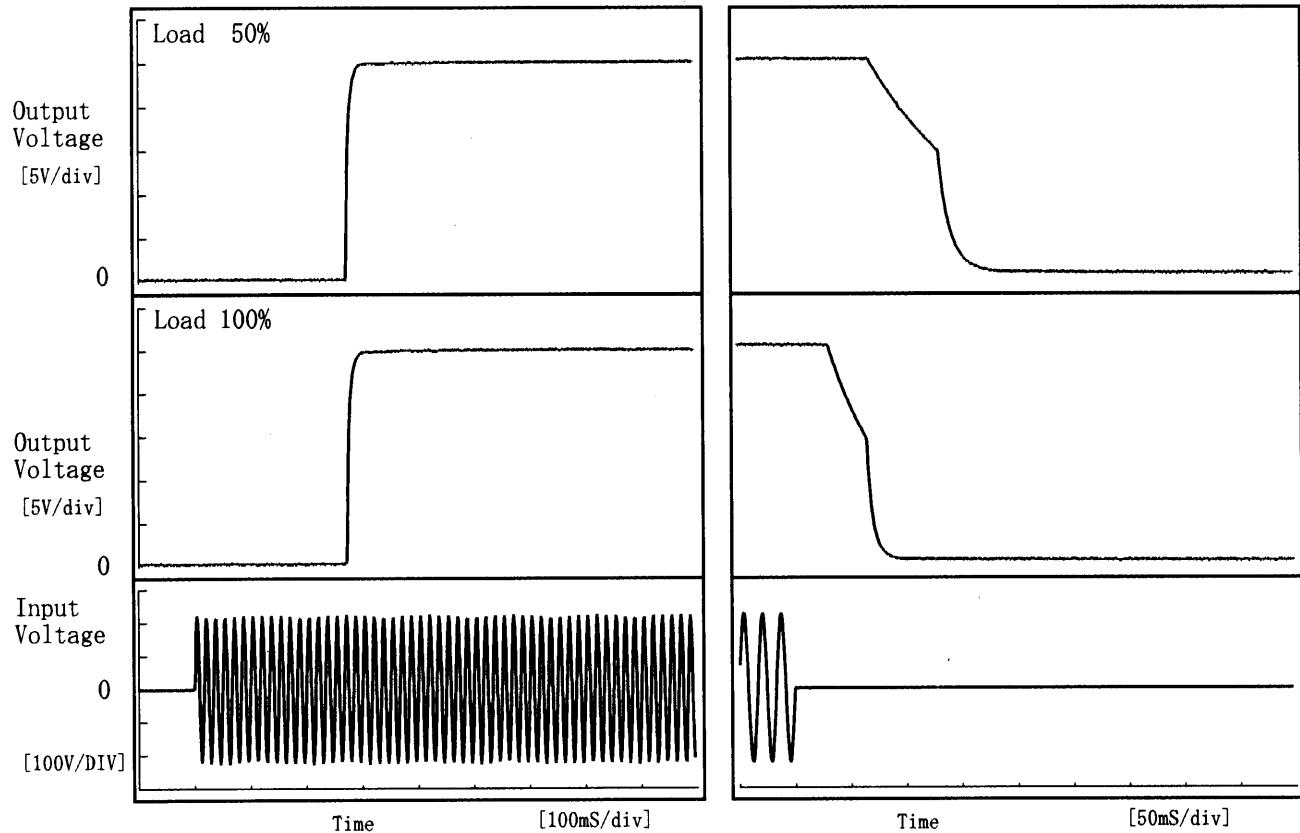
Model LEA150F-24

Item Rise and Fall Time 立上り、立下り時間

Object +24.0V 6.30A

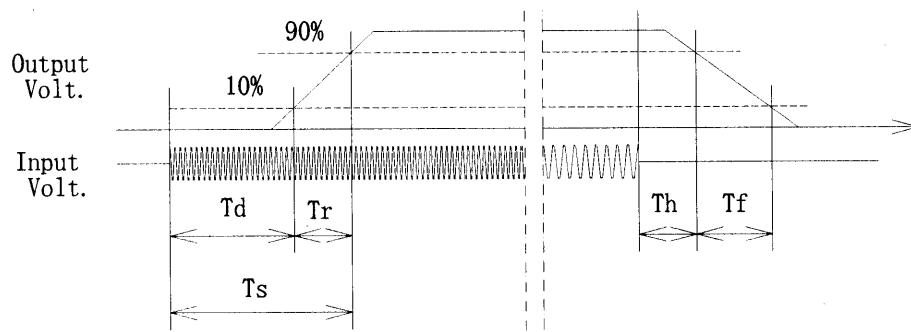
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

| Load | Time | T _d | T _r | T _s | T _h | T _f | [mS] |
|-------|------|----------------|----------------|----------------|----------------|----------------|------|
| 50 % | | 272.0 | 9.0 | 281.0 | 86.0 | 69.0 | |
| 100 % | | 273.5 | 9.0 | 282.5 | 40.8 | 36.5 | |

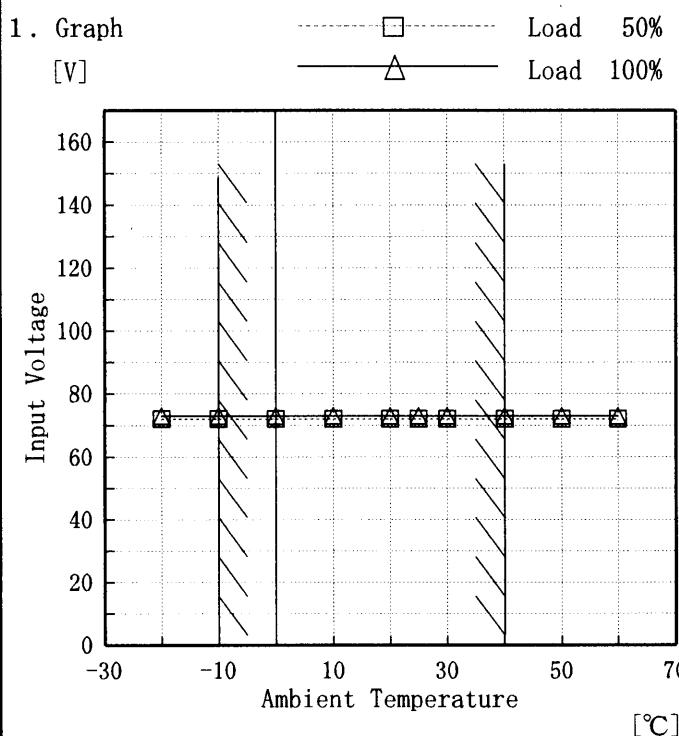


COSEL

| Model | LEA150F-24 | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|----------------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|-----|--------|--------|--------|-----|--------|--------|--------|---|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|---|---|---|---|
| Item | Ambient Temperature Drift 周囲温度変動 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Temperature [°C]</th> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>24.005</td><td>24.005</td><td>24.005</td></tr> <tr><td>-10</td><td>24.010</td><td>24.011</td><td>24.010</td></tr> <tr><td>0</td><td>24.016</td><td>24.016</td><td>24.016</td></tr> <tr><td>10</td><td>24.022</td><td>24.022</td><td>24.022</td></tr> <tr><td>20</td><td>24.027</td><td>24.028</td><td>24.028</td></tr> <tr><td>25</td><td>24.032</td><td>24.032</td><td>24.032</td></tr> <tr><td>30</td><td>24.035</td><td>24.034</td><td>24.034</td></tr> <tr><td>40</td><td>24.033</td><td>24.033</td><td>24.033</td></tr> <tr><td>50</td><td>24.028</td><td>24.027</td><td>24.027</td></tr> <tr><td>60</td><td>24.019</td><td>24.019</td><td>24.019</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | | | | Temperature [°C] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | Output Volt. [V] | Output Volt. [V] | Output Volt. [V] | -20 | 24.005 | 24.005 | 24.005 | -10 | 24.010 | 24.011 | 24.010 | 0 | 24.016 | 24.016 | 24.016 | 10 | 24.022 | 24.022 | 24.022 | 20 | 24.027 | 24.028 | 24.028 | 25 | 24.032 | 24.032 | 24.032 | 30 | 24.035 | 24.034 | 24.034 | 40 | 24.033 | 24.033 | 24.033 | 50 | 24.028 | 24.027 | 24.027 | 60 | 24.019 | 24.019 | 24.019 | — | — | — | — |
| Temperature [°C] | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Output Volt. [V] | Output Volt. [V] | Output Volt. [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 24.005 | 24.005 | 24.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -10 | 24.010 | 24.011 | 24.010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24.016 | 24.016 | 24.016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 24.022 | 24.022 | 24.022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 24.027 | 24.028 | 24.028 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 24.032 | 24.032 | 24.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 24.035 | 24.034 | 24.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 24.033 | 24.033 | 24.033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 24.028 | 24.027 | 24.027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 24.019 | 24.019 | 24.019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|--|
| Model | LEA150F-24 |
| Item | Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧 |
| Object | +24V 6.3A |



Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

2. Values

| Ambient Temp. [°C] | Load 50% | Load 100% |
|-----------------------|--------------------|--------------------|
| | Input Volt. [V] | Input Volt. [V] |
| -20 | 72 | 73 |
| -10 | 72 | 73 |
| 0 | 72 | 73 |
| 10 | 72 | 73 |
| 20 | 72 | 73 |
| 25 | 72 | 73 |
| 30 | 72 | 73 |
| 40 | 72 | 73 |
| 50 | 72 | 73 |
| 60 | 72 | 73 |
| — | — | — |

COSEL

| Model | LEA150F-24 | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|--------------------|----------|-----------|--|--------------------------|--------------------------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|--|
| Item | Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5.0 V 30.00 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | <p style="text-align: center;">—□— Load 50% —△— Load 100%</p> <p style="text-align: center;">Ripple Voltage [mV]</p> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 200 V</p> | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th></th> <th>Ripple Output Volt. [mV]</th> <th>Ripple Output Volt. [mV]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>55</td><td>60</td></tr> <tr><td>-10</td><td>45</td><td>50</td></tr> <tr><td>0</td><td>35</td><td>40</td></tr> <tr><td>10</td><td>35</td><td>40</td></tr> <tr><td>20</td><td>30</td><td>35</td></tr> <tr><td>25</td><td>30</td><td>35</td></tr> <tr><td>30</td><td>30</td><td>35</td></tr> <tr><td>40</td><td>30</td><td>35</td></tr> <tr><td>50</td><td>30</td><td>35</td></tr> <tr><td>60</td><td>30</td><td>35</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | Ambient Temp. [°C] | Load 50% | Load 100% | | Ripple Output Volt. [mV] | Ripple Output Volt. [mV] | -20 | 55 | 60 | -10 | 45 | 50 | 0 | 35 | 40 | 10 | 35 | 40 | 20 | 30 | 35 | 25 | 30 | 35 | 30 | 30 | 35 | 40 | 30 | 35 | 50 | 30 | 35 | 60 | 30 | 35 | — | — | — | |
| Ambient Temp. [°C] | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ripple Output Volt. [mV] | Ripple Output Volt. [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 55 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -10 | 45 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 35 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 35 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | LEA150F-24 | Temperature Testing Circuitry Figure A | 25 °C | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|--|-------|----------------------|--------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Item | Time Lapse Drift 経時ドリフト | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V 6.30A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | |
| <p>[V]</p> <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 200V Load 100%</p> | | <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>24.027</td></tr> <tr><td>0.5</td><td>24.015</td></tr> <tr><td>1.0</td><td>24.015</td></tr> <tr><td>2.0</td><td>24.015</td></tr> <tr><td>3.0</td><td>24.015</td></tr> <tr><td>4.0</td><td>24.015</td></tr> <tr><td>5.0</td><td>24.015</td></tr> <tr><td>6.0</td><td>24.015</td></tr> <tr><td>7.0</td><td>24.015</td></tr> <tr><td>8.0</td><td>24.015</td></tr> </tbody> </table> | | Time since start [H] | Output Voltage [V] | 0.0 | 24.027 | 0.5 | 24.015 | 1.0 | 24.015 | 2.0 | 24.015 | 3.0 | 24.015 | 4.0 | 24.015 | 5.0 | 24.015 | 6.0 | 24.015 | 7.0 | 24.015 | 8.0 | 24.015 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 24.027 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 24.015 | | | | | | | | | | | | | | | | | | | | | | | | |



| | | |
|--------|-------------------------------|----------------------------|
| Model | LEA150F-24 | Testing Circuitry Figure A |
| Item | Output Voltage Accuracy 定電圧精度 | |
| Object | +24.0V 6.30A | |

Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10~40 °C

Input Voltage : 170~264 V

Load Current : 0.00~6.30 A

* Output Voltage Accuracy = ±(Maximum of Output Voltage — Minimum of Output Voltage) / 2

$$* \text{ Output Voltage Accuracy (Ration)} = \frac{\text{Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~40 °C

入力電圧 170~264 V

負荷電流 0.00~6.30 A

* 定電圧精度(変動値) = ±(出力電圧の最高値—出力電圧の最低値) / 2

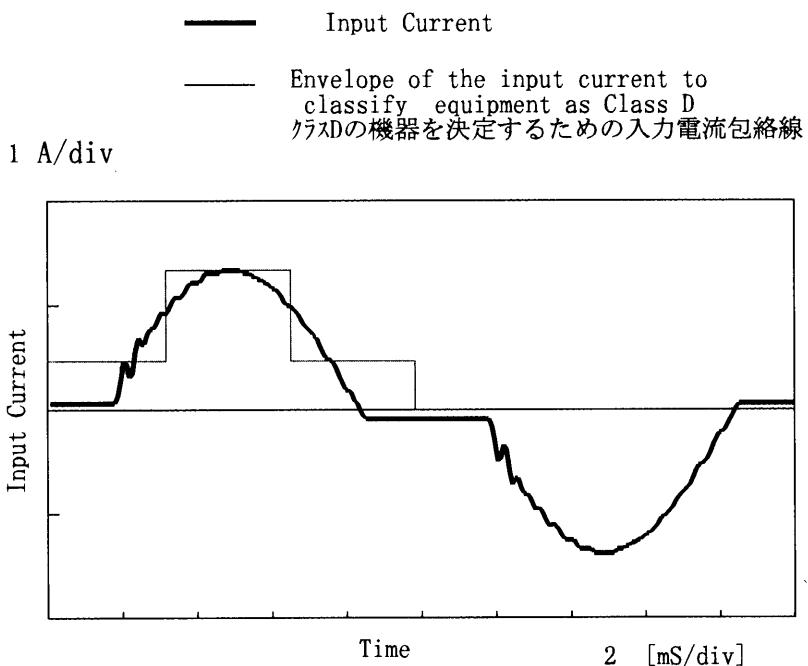
$$* \text{ 定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

| Item | Temperature [°C] | Input Voltage [V] | Output Current [A] | Output Voltage [V] | Output Voltage Accuracy [mV] | Output Voltage Accuracy(Ration) [%] |
|-----------------|------------------|-------------------|--------------------|--------------------|------------------------------|-------------------------------------|
| Maximum Voltage | 25 | 170 | 0.00 | 24.039 | | |
| Minimum Voltage | -10 | 170 | 6.30 | 24.013 | ±14 | ±0.1 |

COSEL

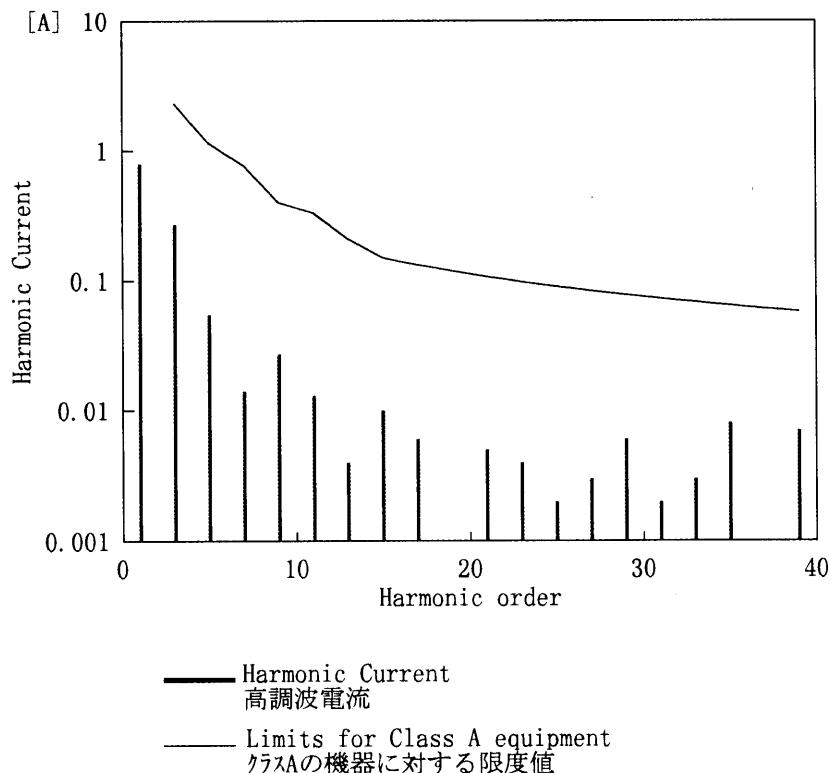
| | | | |
|--------|---------------------------|----------------------------------|------------------|
| Model | LEA150F-24 | Temperature Testing Circuitry | 25°C Figure E |
| Item | Harmonic Current 高調波電流 | | |
| Object | _____ | | |

1. Input Current Waveform



| Conditions | Values |
|---------------------|--------|
| Input Voltage [V] | 230.5 |
| Input Current [A] | 0.842 |
| Active Power [W] | 180.3 |
| Apparent Power [VA] | 194 |
| Frequency [Hz] | 50 |
| Power Factor | 0.929 |
| Output Power [W] | 150 |

2. Harmonic Current

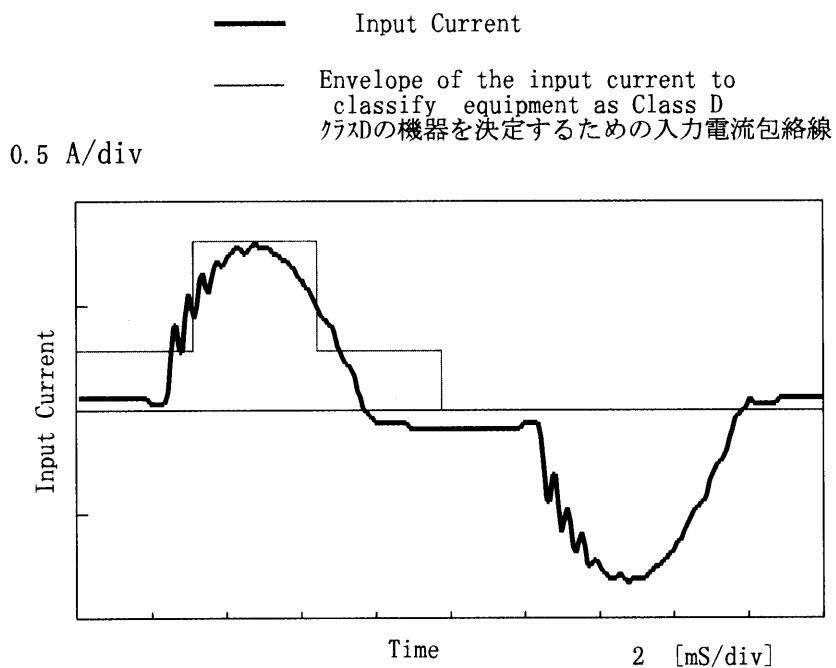


| Harmonics order | Limits 限度値 [A] | Values 測定値 [A] |
|-----------------|----------------|----------------|
| 1 | — | 0.79300 |
| 2 | — | 0.00100 |
| 3 | 2.29501 | 0.27000 |
| 4 | — | 0.00000 |
| 5 | 1.13753 | 0.05500 |
| 6 | — | 0.00000 |
| 7 | 0.76833 | 0.01400 |
| 8 | — | 0.00000 |
| 9 | 0.39913 | 0.02700 |
| 10 | — | 0.00000 |
| 11 | 0.32928 | 0.01300 |
| 12 | — | 0.00000 |
| 13 | 0.20954 | 0.00400 |
| 14 | — | 0.00000 |
| 15 | 0.14967 | 0.01000 |
| 16 | — | 0.00000 |
| 17 | 0.13207 | 0.00600 |
| 18 | — | 0.00000 |
| 19 | 0.11816 | 0.00100 |
| 20 | — | 0.00000 |
| 21 | 0.10691 | 0.00500 |
| 22 | — | 0.00000 |
| 23 | 0.09761 | 0.00400 |
| 24 | — | 0.00000 |
| 25 | 0.08980 | 0.00200 |
| 26 | — | 0.00000 |
| 27 | 0.08315 | 0.00300 |
| 28 | — | 0.00000 |
| 29 | 0.07742 | 0.00600 |
| 30 | — | 0.00000 |
| 31 | 0.07242 | 0.00200 |
| 32 | — | 0.00000 |
| 33 | 0.06803 | 0.00300 |
| 34 | — | 0.00000 |
| 35 | 0.06415 | 0.00800 |
| 36 | — | 0.00000 |
| 37 | 0.06068 | 0.00100 |
| 38 | — | 0.00000 |
| 39 | 0.05757 | 0.00700 |
| 40 | — | 0.00000 |

COSEL

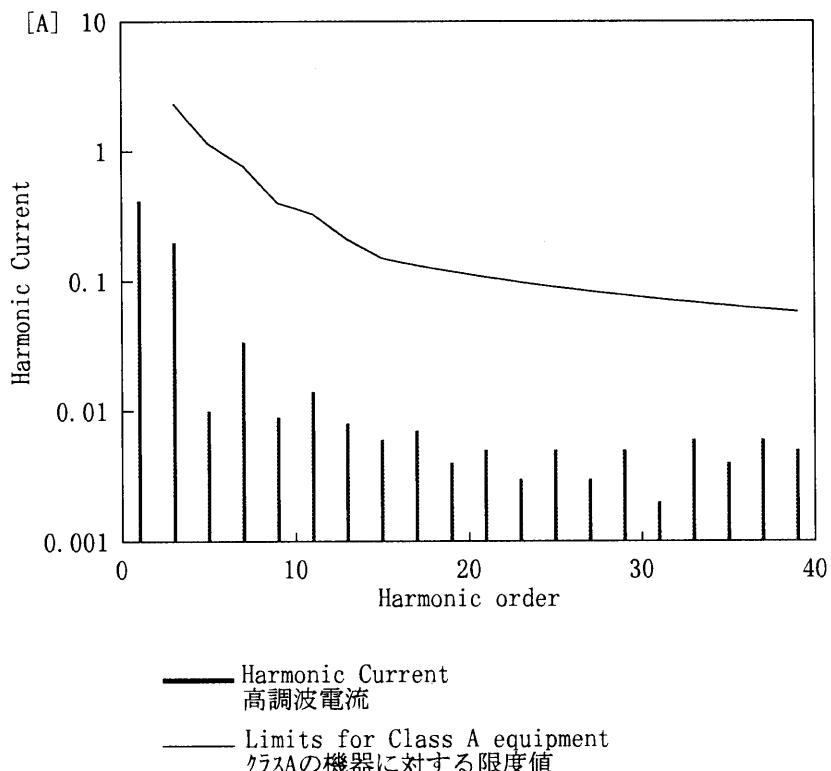
| | | | |
|--------|---------------------------|----------------------------------|------------------|
| Model | LEA150F-24 | Temperature Testing Circuitry | 25°C Figure E |
| Item | Harmonic Current 高調波電流 | | |
| Object | _____ | | |

1. Input Current Waveform



| Conditions | Values |
|---------------------|--------|
| Input Voltage [V] | 230.6 |
| Input Current [A] | 0.466 |
| Active Power [W] | 93.7 |
| Apparent Power [VA] | 107.5 |
| Frequency [Hz] | 50 |
| Power Factor | 0.872 |
| Output Power [W] | 75 |

2. Harmonic Current



| Harmonics order 高調波次数 | Limits 限度値 [A] | Values 測定値 [A] |
|--------------------------|----------------------|----------------------|
| 1 | — | 0.41800 |
| 2 | — | 0.00100 |
| 3 | 2.29402 | 0.19900 |
| 4 | — | 0.00000 |
| 5 | 1.13703 | 0.01000 |
| 6 | — | 0.00000 |
| 7 | 0.76800 | 0.03400 |
| 8 | — | 0.00000 |
| 9 | 0.39896 | 0.00900 |
| 10 | — | 0.00000 |
| 11 | 0.32914 | 0.01400 |
| 12 | — | 0.00000 |
| 13 | 0.20945 | 0.00800 |
| 14 | — | 0.00000 |
| 15 | 0.14961 | 0.00600 |
| 16 | — | 0.00000 |
| 17 | 0.13201 | 0.00700 |
| 18 | — | 0.00000 |
| 19 | 0.11811 | 0.00400 |
| 20 | — | 0.00000 |
| 21 | 0.10686 | 0.00500 |
| 22 | — | 0.00000 |
| 23 | 0.09757 | 0.00300 |
| 24 | — | 0.00000 |
| 25 | 0.08977 | 0.00500 |
| 26 | — | 0.00000 |
| 27 | 0.08312 | 0.00300 |
| 28 | — | 0.00000 |
| 29 | 0.07738 | 0.00500 |
| 30 | — | 0.00000 |
| 31 | 0.07239 | 0.00200 |
| 32 | — | 0.00000 |
| 33 | 0.06800 | 0.00600 |
| 34 | — | 0.00000 |
| 35 | 0.06412 | 0.00400 |
| 36 | — | 0.00000 |
| 37 | 0.06065 | 0.00600 |
| 38 | — | 0.00000 |
| 39 | 0.05754 | 0.00500 |
| 40 | — | 0.00000 |



| | | |
|--------|-------------------|-------------------------------|
| Model | LEA150F-24 | Testing Circuitry Figure A |
| Item | Condensation 結露特性 | |
| Object | +24V 6.3A | |

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25°C and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で-10°Cに冷却しておき、約1時間後に恒温槽から取り出し、室温25°C、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

| Item | Data | Testing Conditions |
|----------------------|--------|--|
| Output Voltage [V] | 24.034 | Input Volt.: 200V, Load Current:6.3A |
| Line Regulation [mV] | 1 | Input Volt.: 170~264V, Load Current:6.3A |
| Load Regulation [mV] | 5 | Input Volt.: 200V, Load Current:0~6.3A |



| | | | |
|--------|----------------------|----------------------------------|------------------|
| Model | LEA150F-24 | Temperature Testing Circuitry | 25°C Figure B |
| Item | Leakage Current 漏洩電流 | | |
| Object | <hr/> | | |

1. Results

| Standards | Leakage Current [mA] | | |
|--------------|-----------------------|------------------------|------------------------|
| | Input Volt. 85 [V] | Input Volt. 100 [V] | Input Volt. 132 [V] |
| (A) DENTORI | — | — | — |
| (B) IEC60950 | — | — | — |

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力の両相について測定し、その大きい方を漏洩電流測定値とする。

| Standards | Leakage Current [mA] | | |
|--------------|------------------------|------------------------|------------------------|
| | Input Volt. 170 [V] | Input Volt. 230 [V] | Input Volt. 264 [V] |
| (B) IEC60950 | 0.33 | 0.46 | 0.54 |



| | | |
|--------|--------------------------------|--|
| Model | LEA150F-24 | Temperature Testing Circuitry Figure C |
| Item | Line Noise Tolerance 入力雑音耐量 | |
| Object | +24V 6.3A | |

1. Results

| Pulse Width [nS] | MODE | No protection failure should occur 保護回路の誤動作がない | DC-like Regulation of Output Voltage 出力電圧の直流的変動 |
|---------------------|--------|---|--|
| 50 | COMMON | OK | no fluctuation |
| | NORMAL | OK | no fluctuation |
| 1000 | COMMON | OK | no fluctuation |
| | NORMAL | OK | no fluctuation |

Conditions

Input Voltage : 200 V
 Pulse Voltage : 2000 V
 Pulse Cycle : 10 mS
 Pulse Input Duration: 1 min. or more
 Load : 100 %

COSEL

| | | | |
|--------|------------------------------|----------------------------------|------------------|
| Model | LEA150F-24 | Temperature Testing Circuitry | 25°C Figure D |
| Item | Conducted Emission 雜音端子電壓 | | |
| Object | _____ | | |

1. Graph

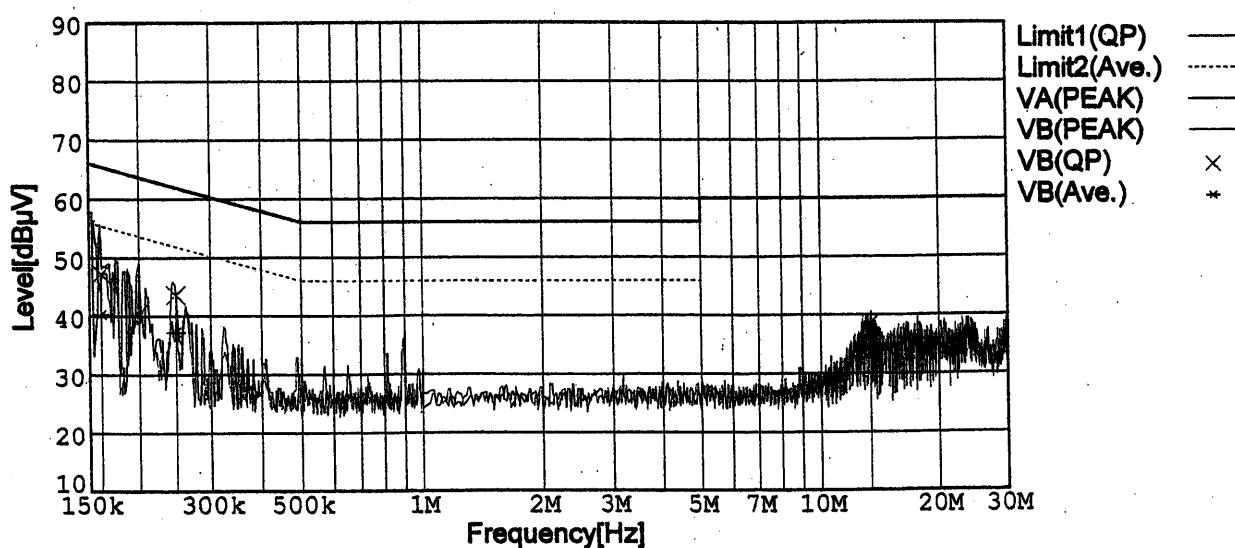
Remarks

Input Volt. 230V (CISPR Pub22 Class B)

Load 100 %

Limit1: [CISPR Pub22] Class B(QP)

Limit2: [CISPR Pub22] Class B(Ave.)



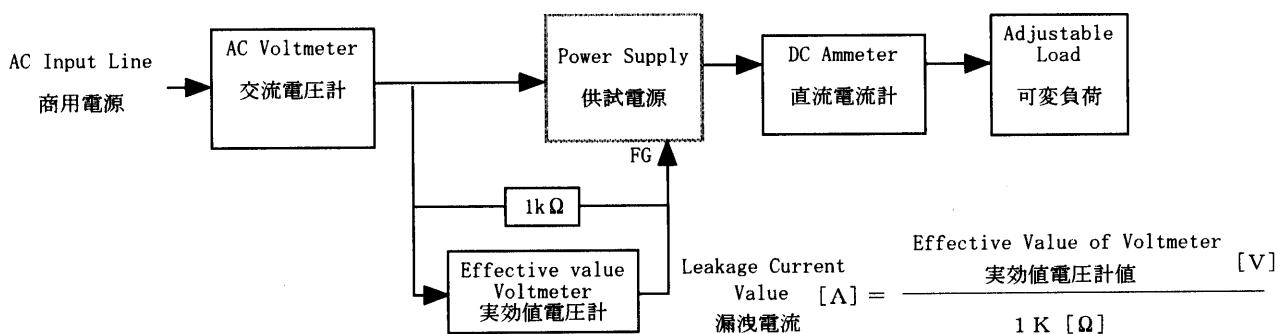
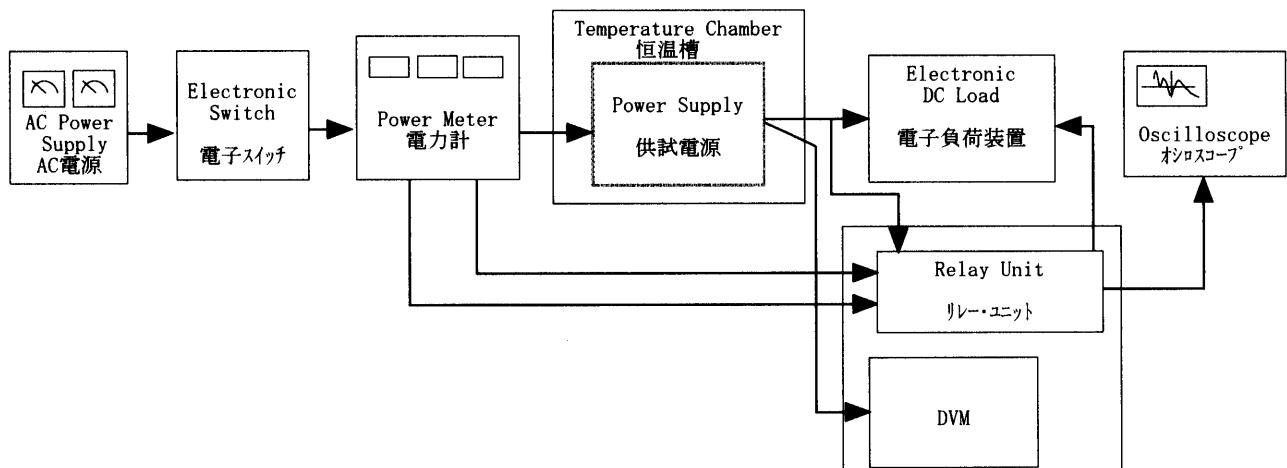


Figure B (DENTORI)

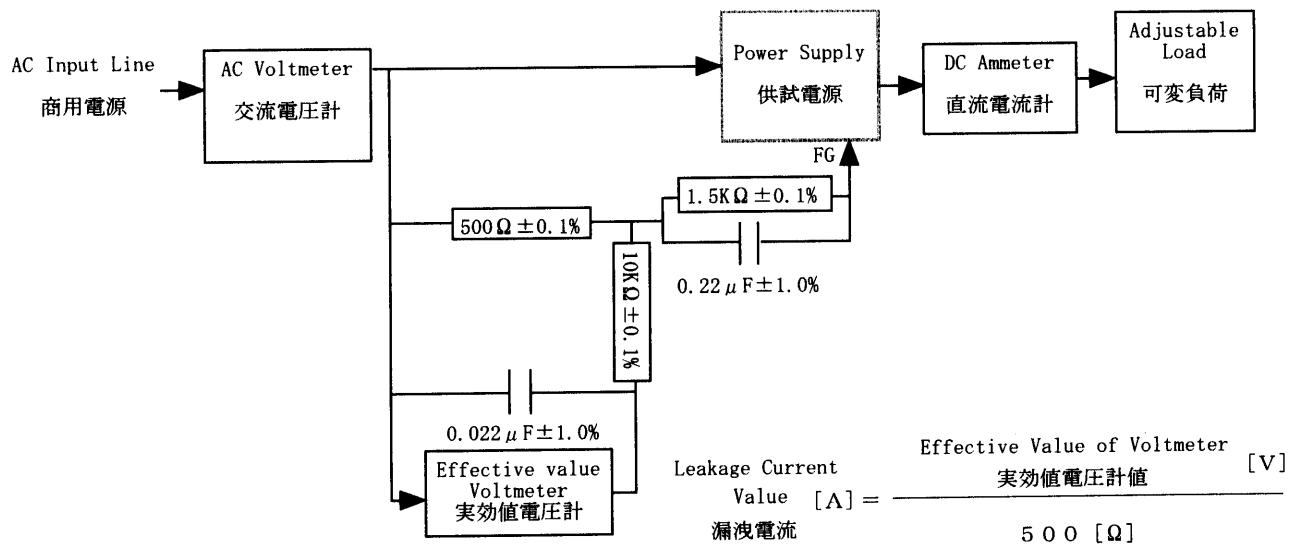


Figure B (IEC60950)

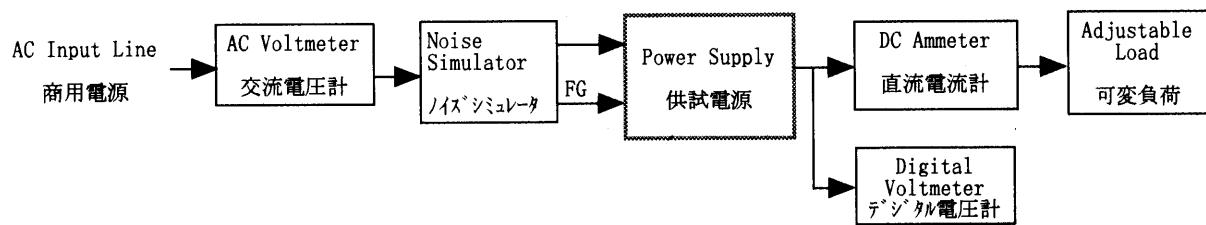


Figure C

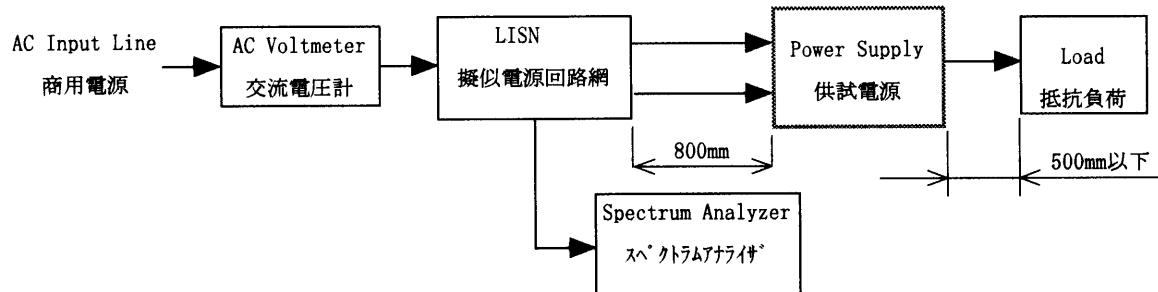


Figure D

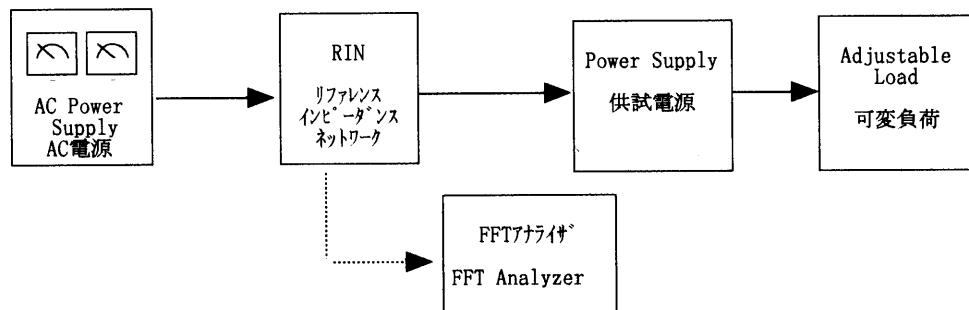


Figure E