



TEST DATA OF LFA75F-36

Regulated DC Power Supply
August 10, 2009

Approved by : Yoshiaki Shimizu
Yoshiaki Shimizu Design Manager

Prepared by : Koji Takahashi
Koji Takahashi Design Engineer

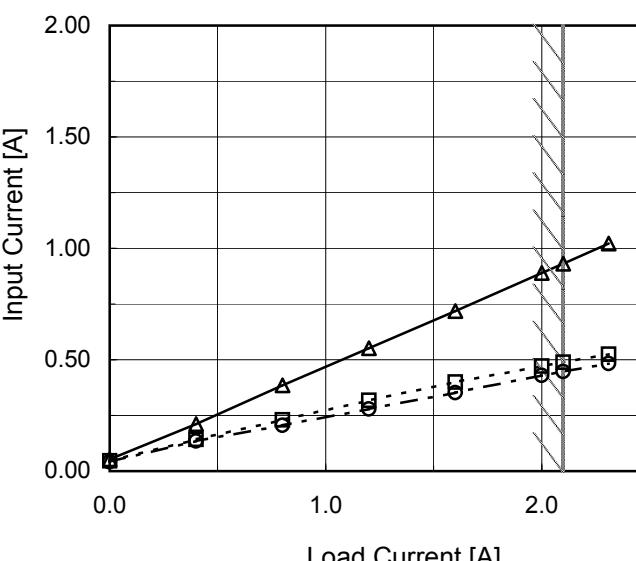
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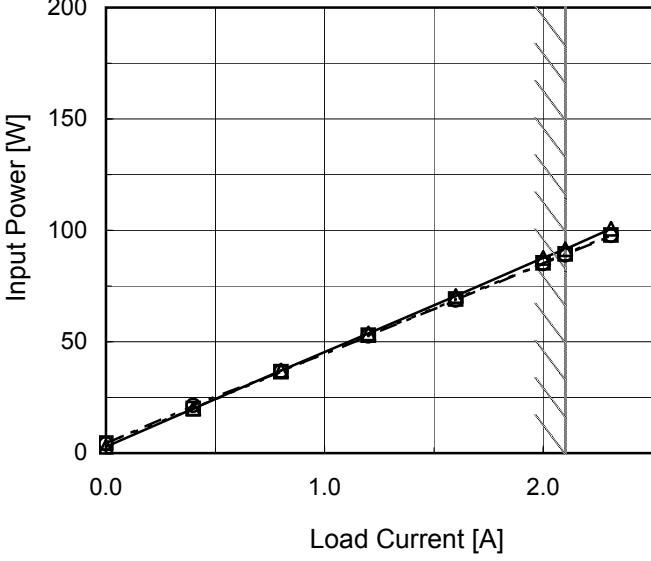
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| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------|--------------------|------------------|-------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Input Current (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p style="text-align: center;"> —△— Input Volt. 100V - -□- Input Volt. 200V - -○- Input Volt. 230V </p>  <p>The graph plots Input Current [A] on the y-axis (0.00 to 2.00) against Load Current [A] on the x-axis (0.0 to 2.0). Three curves are shown for different input voltages: 100V (solid line with open triangles), 200V (dashed line with open squares), and 230V (dashed line with open circles). All curves show a linear increase in input current with load current. A vertical slanted line is drawn through the 100V curve at approximately 1.8A, indicating the rated load current range.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>0.054</td> <td>0.046</td> <td>0.041</td> </tr> <tr> <td>0.40</td> <td>0.212</td> <td>0.142</td> <td>0.135</td> </tr> <tr> <td>0.80</td> <td>0.385</td> <td>0.230</td> <td>0.206</td> </tr> <tr> <td>1.20</td> <td>0.552</td> <td>0.317</td> <td>0.279</td> </tr> <tr> <td>1.60</td> <td>0.718</td> <td>0.399</td> <td>0.352</td> </tr> <tr> <td>2.00</td> <td>0.889</td> <td>0.471</td> <td>0.430</td> </tr> <tr> <td>2.10</td> <td>0.931</td> <td>0.489</td> <td>0.447</td> </tr> <tr> <td>2.31</td> <td>1.022</td> <td>0.524</td> <td>0.483</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. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 0.054 | 0.046 | 0.041 | 0.40 | 0.212 | 0.142 | 0.135 | 0.80 | 0.385 | 0.230 | 0.206 | 1.20 | 0.552 | 0.317 | 0.279 | 1.60 | 0.718 | 0.399 | 0.352 | 2.00 | 0.889 | 0.471 | 0.430 | 2.10 | 0.931 | 0.489 | 0.447 | 2.31 | 1.022 | 0.524 | 0.483 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.054 | 0.046 | 0.041 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 0.212 | 0.142 | 0.135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 0.385 | 0.230 | 0.206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 0.552 | 0.317 | 0.279 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 0.718 | 0.399 | 0.352 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.889 | 0.471 | 0.430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 0.931 | 0.489 | 0.447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 1.022 | 0.524 | 0.483 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: | Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|--------------------|--|------------------|-----------------|--|--|--------------------|--------------------|--------------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Input Power (by Load Current) | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| —△— Input Volt. 100V - -□--- Input Volt. 200V - -○--- Input Volt. 230V | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>The graph plots Input Power [W] on the Y-axis (0 to 200) against Load Current [A] on the X-axis (0.0 to 2.0). Three data series are shown for different input voltages: 100V (solid line with open triangle markers), 200V (dashed line with open square markers), and 230V (dash-dot line with open circle markers). All curves show a linear increase in power with load current. A slanted line is drawn across the graph, starting from approximately (0.0, 10) and ending at (2.31, 100.7), representing the rated load current range.</p> | | | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>2.9</td> <td>4.4</td> <td>4.1</td> </tr> <tr> <td>0.40</td> <td>19.9</td> <td>20.0</td> <td>21.4</td> </tr> <tr> <td>0.80</td> <td>37.0</td> <td>36.5</td> <td>36.6</td> </tr> <tr> <td>1.20</td> <td>53.8</td> <td>52.9</td> <td>52.6</td> </tr> <tr> <td>1.60</td> <td>70.5</td> <td>69.1</td> <td>68.7</td> </tr> <tr> <td>2.00</td> <td>87.6</td> <td>85.4</td> <td>85.1</td> </tr> <tr> <td>2.10</td> <td>91.5</td> <td>89.4</td> <td>89.0</td> </tr> <tr> <td>2.31</td> <td>100.7</td> <td>97.9</td> <td>97.7</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 Power [W] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 2.9 | 4.4 | 4.1 | 0.40 | 19.9 | 20.0 | 21.4 | 0.80 | 37.0 | 36.5 | 36.6 | 1.20 | 53.8 | 52.9 | 52.6 | 1.60 | 70.5 | 69.1 | 68.7 | 2.00 | 87.6 | 85.4 | 85.1 | 2.10 | 91.5 | 89.4 | 89.0 | 2.31 | 100.7 | 97.9 | 97.7 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Power [W] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 2.9 | 4.4 | 4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 19.9 | 20.0 | 21.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 37.0 | 36.5 | 36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 53.8 | 52.9 | 52.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 70.5 | 69.1 | 68.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 87.6 | 85.4 | 85.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 91.5 | 89.4 | 89.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 100.7 | 97.9 | 97.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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|---|-------------------------------|--|-------------------|-------------------------|--------------------------|----------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|---|
| Item | Efficiency (by Input Voltage) | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The graph plots Efficiency [%] on the y-axis (30 to 86) against Input Voltage [V] on the x-axis (50 to 300). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show efficiency increasing slightly with input voltage. A slanted line indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>75</td><td>78.7</td><td>80.7</td></tr> <tr><td>85</td><td>79.5</td><td>81.8</td></tr> <tr><td>100</td><td>80.0</td><td>82.9</td></tr> <tr><td>120</td><td>80.5</td><td>83.8</td></tr> <tr><td>200</td><td>81.0</td><td>84.9</td></tr> <tr><td>230</td><td>81.4</td><td>85.3</td></tr> <tr><td>264</td><td>79.5</td><td>85.5</td></tr> <tr><td>280</td><td>83.0</td><td>85.2</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Input Voltage [V] | Efficiency Load 50% [%] | Efficiency Load 100% [%] | 75 | 78.7 | 80.7 | 85 | 79.5 | 81.8 | 100 | 80.0 | 82.9 | 120 | 80.5 | 83.8 | 200 | 81.0 | 84.9 | 230 | 81.4 | 85.3 | 264 | 79.5 | 85.5 | 280 | 83.0 | 85.2 | -- | - | - | | |
| Input Voltage [V] | Efficiency Load 50% [%] | Efficiency Load 100% [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 78.7 | 80.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 79.5 | 81.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 80.0 | 82.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 80.5 | 83.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 81.0 | 84.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 81.4 | 85.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 79.5 | 85.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 83.0 | 85.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>75</td><td>78.7</td><td>80.7</td></tr> <tr><td>85</td><td>79.5</td><td>81.8</td></tr> <tr><td>100</td><td>80.0</td><td>82.9</td></tr> <tr><td>120</td><td>80.5</td><td>83.8</td></tr> <tr><td>200</td><td>81.0</td><td>84.9</td></tr> <tr><td>230</td><td>81.4</td><td>85.3</td></tr> <tr><td>264</td><td>79.5</td><td>85.5</td></tr> <tr><td>280</td><td>83.0</td><td>85.2</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Input Voltage [V] | Efficiency [%] | | Load 50% | Load 100% | 75 | 78.7 | 80.7 | 85 | 79.5 | 81.8 | 100 | 80.0 | 82.9 | 120 | 80.5 | 83.8 | 200 | 81.0 | 84.9 | 230 | 81.4 | 85.3 | 264 | 79.5 | 85.5 | 280 | 83.0 | 85.2 | -- | - | - |
| Input Voltage [V] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 78.7 | 80.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 79.5 | 81.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 80.0 | 82.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 80.5 | 83.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 81.0 | 84.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 81.4 | 85.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 79.5 | 85.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 83.0 | 85.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|----------------------------------|--------------------|------------------|----------------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Efficiency (by Load Current) | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>Efficiency [%]</p> <p>Load Current [A]</p> <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 100V Input Volt. 200V Input Volt. 230V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>0.40</td><td>72.8</td><td>72.5</td><td>67.8</td></tr> <tr> <td>0.80</td><td>78.3</td><td>79.3</td><td>79.1</td></tr> <tr> <td>1.20</td><td>80.7</td><td>82.0</td><td>82.5</td></tr> <tr> <td>1.60</td><td>82.0</td><td>83.7</td><td>84.2</td></tr> <tr> <td>2.00</td><td>82.5</td><td>84.6</td><td>84.9</td></tr> <tr> <td>2.10</td><td>82.9</td><td>84.9</td><td>85.3</td></tr> <tr> <td>2.31</td><td>82.9</td><td>85.3</td><td>85.4</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] | Efficiency [%] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | - | - | - | 0.40 | 72.8 | 72.5 | 67.8 | 0.80 | 78.3 | 79.3 | 79.1 | 1.20 | 80.7 | 82.0 | 82.5 | 1.60 | 82.0 | 83.7 | 84.2 | 2.00 | 82.5 | 84.6 | 84.9 | 2.10 | 82.9 | 84.9 | 85.3 | 2.31 | 82.9 | 85.3 | 85.4 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 72.8 | 72.5 | 67.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 78.3 | 79.3 | 79.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 80.7 | 82.0 | 82.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 82.0 | 83.7 | 84.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 82.5 | 84.6 | 84.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 82.9 | 84.9 | 85.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 82.9 | 85.3 | 85.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: | Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | LFA75F-36 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|-------------------|--|-------------------|--------------|--|----------|-----------|----|-------|-------|----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|----|---|---|
| Item | Power Factor (by Input Voltage) | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The graph shows two sets of data points connected by lines. The top set, labeled 'Load 50%', uses a dashed line with square markers. The bottom set, labeled 'Load 100%', uses a solid line with triangle markers. Both sets show a general downward trend as input voltage increases from 75V to 280V. A vertical slanted line is drawn through the graph, starting at approximately 85V and ending at 264V, representing the rated input voltage range.</p> | | | <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Power Factor</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>75</td> <td>0.986</td> <td>0.996</td> </tr> <tr> <td>85</td> <td>0.980</td> <td>0.994</td> </tr> <tr> <td>100</td> <td>0.973</td> <td>0.987</td> </tr> <tr> <td>120</td> <td>0.957</td> <td>0.978</td> </tr> <tr> <td>200</td> <td>0.821</td> <td>0.916</td> </tr> <tr> <td>230</td> <td>0.804</td> <td>0.866</td> </tr> <tr> <td>264</td> <td>0.782</td> <td>0.839</td> </tr> <tr> <td>280</td> <td>0.482</td> <td>0.671</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | Input Voltage [V] | Power Factor | | Load 50% | Load 100% | 75 | 0.986 | 0.996 | 85 | 0.980 | 0.994 | 100 | 0.973 | 0.987 | 120 | 0.957 | 0.978 | 200 | 0.821 | 0.916 | 230 | 0.804 | 0.866 | 264 | 0.782 | 0.839 | 280 | 0.482 | 0.671 | -- | - | - |
| Input Voltage [V] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 0.986 | 0.996 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0.980 | 0.994 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 0.973 | 0.987 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 0.957 | 0.978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0.821 | 0.916 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 0.804 | 0.866 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 0.782 | 0.839 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 0.482 | 0.671 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

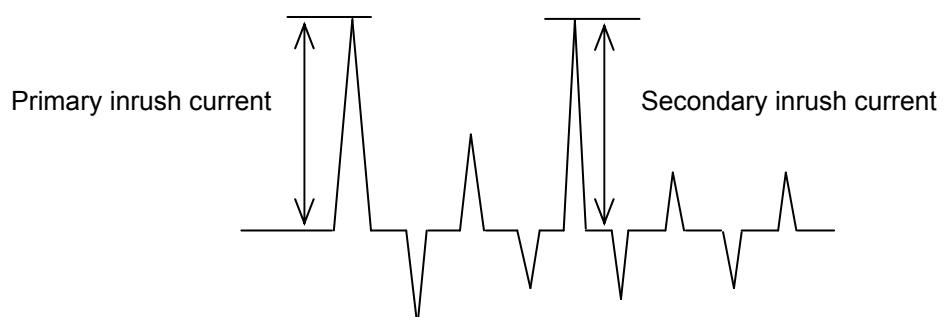
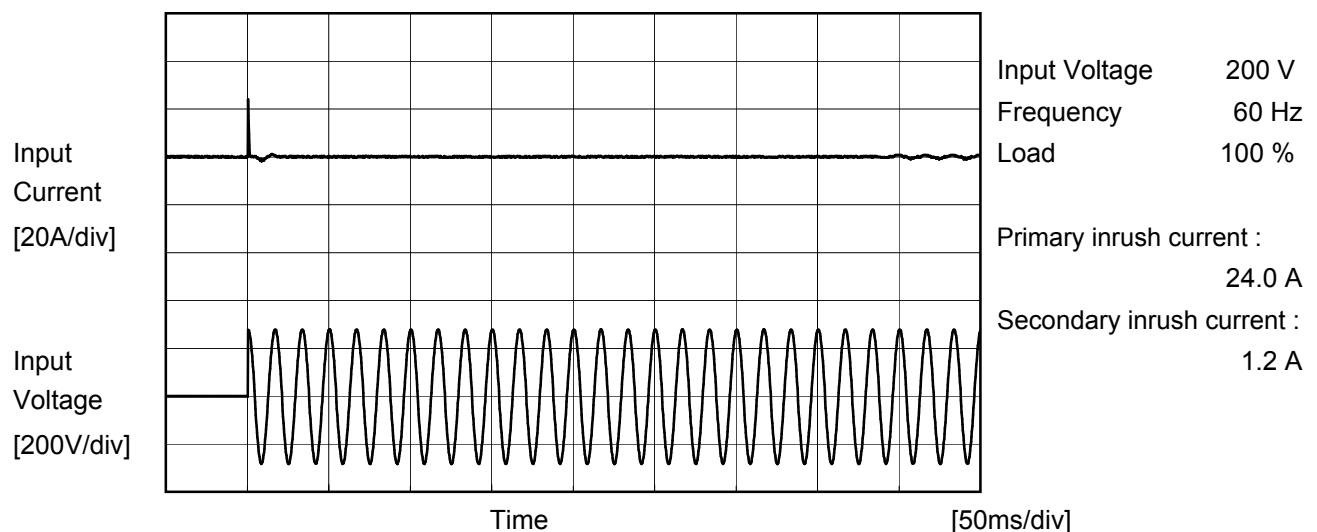
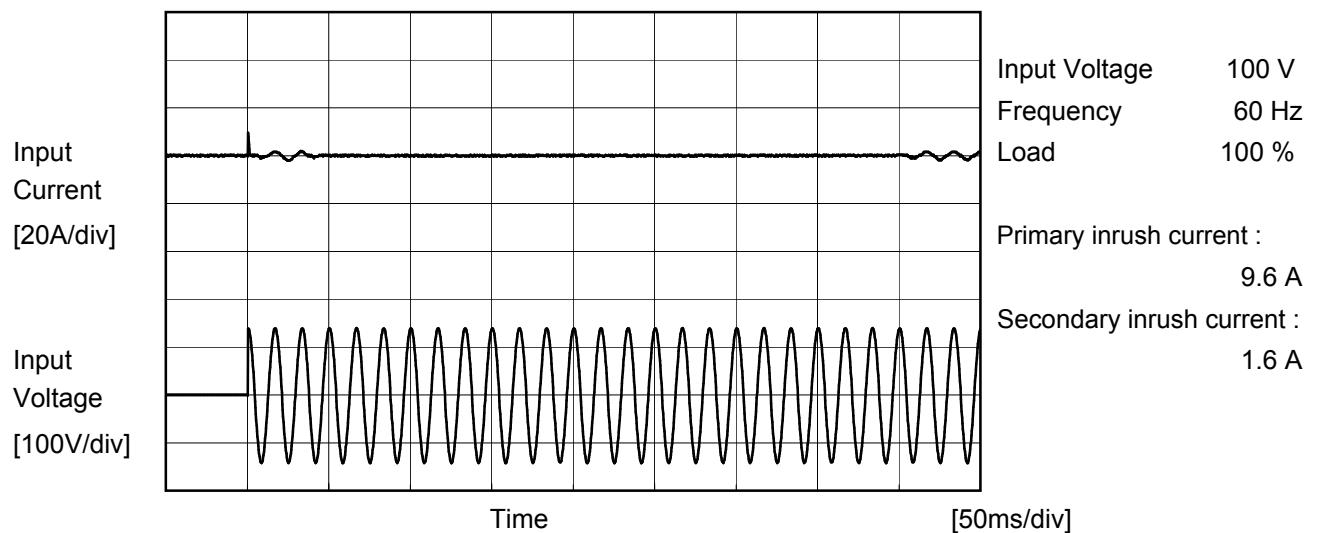
Note: Slanted line shows the range of the rated input voltage.

COSEL

| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|--|--|--|
| Item | Power Factor (by Load Current) | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The graph plots Power Factor (Y-axis, 0.4 to 1.0) against Load Current [A] (X-axis, 0.0 to 2.0). Three curves are shown for Input Voltages: 100V (solid line with open triangles), 200V (dashed line with open squares), and 230V (dash-dot line with open circles). All curves show an increasing trend of power factor with load current. A slanted line on the graph indicates the range of the rated load current.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.539</td><td>0.484</td><td>0.436</td></tr> <tr><td>0.40</td><td>0.942</td><td>0.702</td><td>0.690</td></tr> <tr><td>0.80</td><td>0.961</td><td>0.792</td><td>0.772</td></tr> <tr><td>1.20</td><td>0.975</td><td>0.833</td><td>0.819</td></tr> <tr><td>1.60</td><td>0.982</td><td>0.867</td><td>0.847</td></tr> <tr><td>2.00</td><td>0.986</td><td>0.906</td><td>0.860</td></tr> <tr><td>2.10</td><td>0.987</td><td>0.916</td><td>0.868</td></tr> <tr><td>2.31</td><td>0.988</td><td>0.933</td><td>0.880</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 Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 0.539 | 0.484 | 0.436 | 0.40 | 0.942 | 0.702 | 0.690 | 0.80 | 0.961 | 0.792 | 0.772 | 1.20 | 0.975 | 0.833 | 0.819 | 1.60 | 0.982 | 0.867 | 0.847 | 2.00 | 0.986 | 0.906 | 0.860 | 2.10 | 0.987 | 0.916 | 0.868 | 2.31 | 0.988 | 0.933 | 0.880 | -- | - | - | - | -- | - | - | - | -- | - | - | - | | | |
| Load Current [A] | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.539 | 0.484 | 0.436 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 0.942 | 0.702 | 0.690 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 0.961 | 0.792 | 0.772 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 0.975 | 0.833 | 0.819 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 0.982 | 0.867 | 0.847 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.986 | 0.906 | 0.860 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 0.987 | 0.916 | 0.868 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 0.988 | 0.933 | 0.880 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|----------------|-------------------|----------|
| Model | LFA75F-36 | Temperature | 25°C |
| Item | Inrush Current | Testing Circuitry | Figure A |
| Object | _____ | | |





| | | | |
|--------|-----------------|-------------------|----------|
| Model | LFA75F-36 | Temperature | 25°C |
| Item | Leakage Current | Testing Circuitry | Figure B |
| Object | _____ | | |

1. Results

[mA]

| Standards | | Input Volt. | | | Note |
|-----------|---------------|-------------|---------|---------|-----------|
| | | 100 [V] | 200 [V] | 240 [V] | |
| DEN-AN | Both phases | 0.13 | 0.26 | 0.32 | Operation |
| | One of phases | 0.22 | 0.45 | 0.57 | Stand by |
| IEC60950 | Both phases | 0.14 | 0.30 | 0.38 | Operation |
| | One of phases | 0.22 | 0.44 | 0.54 | Stand by |

The value for "One of phases" is the reference value only.

2. Condition

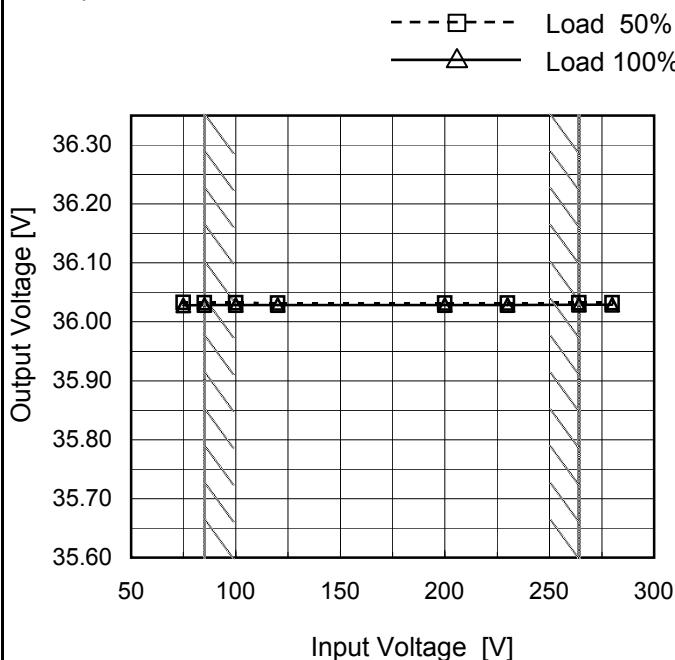
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

COSEL

| | |
|--------|-----------------|
| Model | LFA75F-36 |
| Item | Line Regulation |
| Object | +36V2.1A |

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated input voltage.

2.Values

| Input Voltage [V] | Output Voltage [V] | |
|-------------------|--------------------|-----------|
| | Load 50% | Load 100% |
| 75 | 36.033 | 36.028 |
| 85 | 36.032 | 36.029 |
| 100 | 36.032 | 36.028 |
| 120 | 36.032 | 36.029 |
| 200 | 36.032 | 36.028 |
| 230 | 36.032 | 36.029 |
| 264 | 36.032 | 36.029 |
| 280 | 36.032 | 36.029 |
| -- | - | - |

COSEL

| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--------------------|--------------------|------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Load Regulation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V2.1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Input Volt. 100V Input Volt. 200V Input Volt. 230V</p> | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>36.038</td> <td>36.038</td> <td>36.039</td> </tr> <tr> <td>0.40</td> <td>36.035</td> <td>36.035</td> <td>36.035</td> </tr> <tr> <td>0.80</td> <td>36.033</td> <td>36.033</td> <td>36.034</td> </tr> <tr> <td>1.20</td> <td>36.032</td> <td>36.032</td> <td>36.032</td> </tr> <tr> <td>1.60</td> <td>36.030</td> <td>36.030</td> <td>36.031</td> </tr> <tr> <td>2.00</td> <td>36.029</td> <td>36.029</td> <td>36.029</td> </tr> <tr> <td>2.10</td> <td>36.028</td> <td>36.028</td> <td>36.029</td> </tr> <tr> <td>2.31</td> <td>36.028</td> <td>36.028</td> <td>36.028</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] | Output Voltage [V] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 36.038 | 36.038 | 36.039 | 0.40 | 36.035 | 36.035 | 36.035 | 0.80 | 36.033 | 36.033 | 36.034 | 1.20 | 36.032 | 36.032 | 36.032 | 1.60 | 36.030 | 36.030 | 36.031 | 2.00 | 36.029 | 36.029 | 36.029 | 2.10 | 36.028 | 36.028 | 36.029 | 2.31 | 36.028 | 36.028 | 36.028 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 36.038 | 36.038 | 36.039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 36.035 | 36.035 | 36.035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 36.033 | 36.033 | 36.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 36.032 | 36.032 | 36.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 36.030 | 36.030 | 36.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 36.029 | 36.029 | 36.029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 36.028 | 36.028 | 36.029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 36.028 | 36.028 | 36.028 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

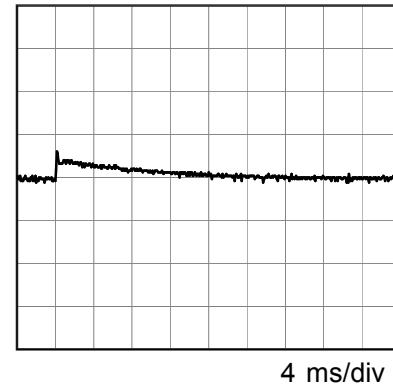
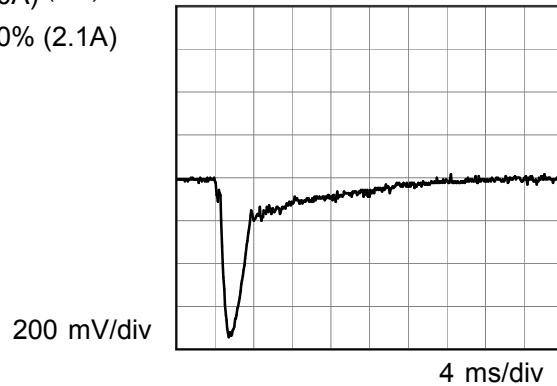
COSEL

| | | | |
|--------|-----------------------|----------------------------------|----------|
| Model | LFA75F-36 | Temperature Testing Circuitry | 25°C |
| Item | Dynamic Load Response | | Figure A |
| Object | +36V2.1A | | |

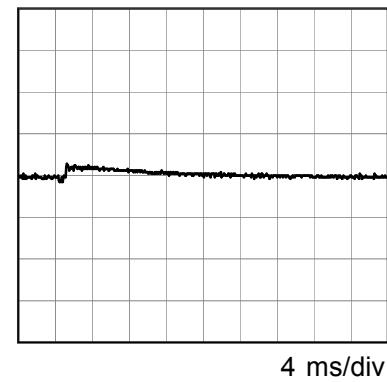
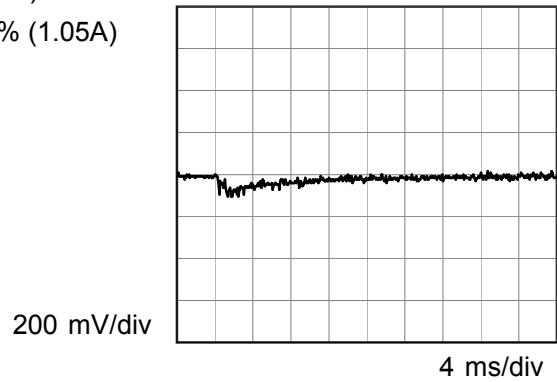
Input Volt. 100 V Response. $t_1=t_2=50\mu s$. Typ
 Cycle 1000 ms



Min. Load (0A) ↔
 Load 100% (2.1A)



Min. Load (0A) ↔
 Load 50% (1.05A)



COSEL

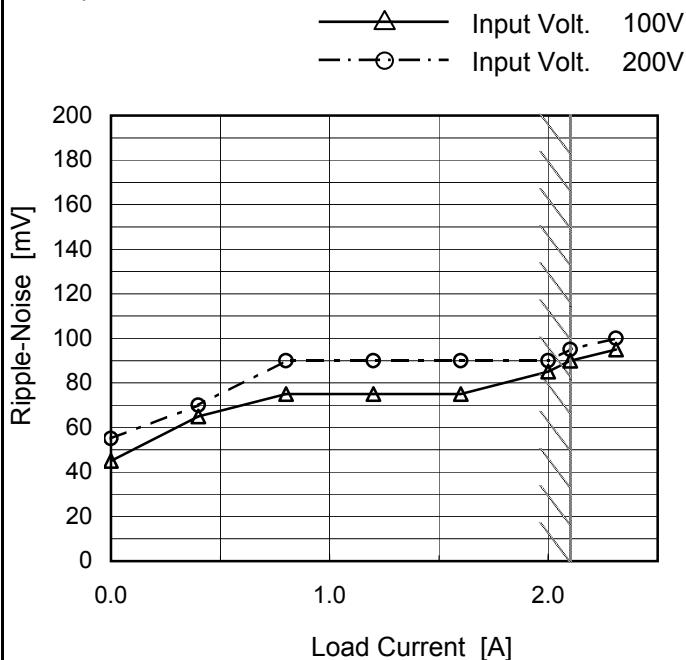
| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|------|---------------------|---------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|----|---|---|----|---|---|----|---|---|
| Item | Ripple Voltage (by Load Current) | Temperature 25°C Testing Circuitry Figure C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V2.1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 50 mV, and the X-axis ranges from 0.0 to 2.0 A. Two curves are plotted: Input Volt. 100V (solid line with open triangles) and Input Volt. 200V (dashed line with open circles). Both curves show a sharp increase in ripple voltage as load current approaches the rated value of 2.1A.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Voltage [mV] (Input Volt. 100V)</th> <th>Ripple Voltage [mV] (Input Volt. 200V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>35</td><td>30</td></tr> <tr><td>0.40</td><td>15</td><td>15</td></tr> <tr><td>0.80</td><td>15</td><td>15</td></tr> <tr><td>1.20</td><td>15</td><td>15</td></tr> <tr><td>1.60</td><td>15</td><td>15</td></tr> <tr><td>2.00</td><td>15</td><td>15</td></tr> <tr><td>2.10</td><td>15</td><td>15</td></tr> <tr><td>2.31</td><td>20</td><td>20</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] | Ripple Voltage [mV] (Input Volt. 100V) | Ripple Voltage [mV] (Input Volt. 200V) | 0.00 | 35 | 30 | 0.40 | 15 | 15 | 0.80 | 15 | 15 | 1.20 | 15 | 15 | 1.60 | 15 | 15 | 2.00 | 15 | 15 | 2.10 | 15 | 15 | 2.31 | 20 | 20 | -- | - | - | -- | - | - | -- | - | - | | | |
| Load Current [A] | Ripple Voltage [mV] (Input Volt. 100V) | Ripple Voltage [mV] (Input Volt. 200V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 35 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 100 [V]</th> <th>Input Volt. 200 [V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>35</td><td>30</td></tr> <tr><td>0.40</td><td>15</td><td>15</td></tr> <tr><td>0.80</td><td>15</td><td>15</td></tr> <tr><td>1.20</td><td>15</td><td>15</td></tr> <tr><td>1.60</td><td>15</td><td>15</td></tr> <tr><td>2.00</td><td>15</td><td>15</td></tr> <tr><td>2.10</td><td>15</td><td>15</td></tr> <tr><td>2.31</td><td>20</td><td>20</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] | Ripple Voltage [mV] | | Input Volt. 100 [V] | Input Volt. 200 [V] | 0.00 | 35 | 30 | 0.40 | 15 | 15 | 0.80 | 15 | 15 | 1.20 | 15 | 15 | 1.60 | 15 | 15 | 2.00 | 15 | 15 | 2.10 | 15 | 15 | 2.31 | 20 | 20 | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100 [V] | Input Volt. 200 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 35 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 20 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>T1: Due to AC Input Line T2: Due to Switching</p> <p>Fig. Complex Ripple Wave Form</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|--------------|
| Model | LFA75F-36 |
| Item | Ripple-Noise |
| Object | +36V2.1A |

Temperature 25°C
Testing Circuitry Figure C

1. Graph



Measured by 20 MHz Oscilloscope.

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

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

2. Values

| Load Current [A] | Ripple-Noise [mV] | |
|------------------|---------------------|---------------------|
| | Input Volt. 100 [V] | Input Volt. 200 [V] |
| 0.00 | 45 | 55 |
| 0.40 | 65 | 70 |
| 0.80 | 75 | 90 |
| 1.20 | 75 | 90 |
| 1.60 | 75 | 90 |
| 2.00 | 85 | 90 |
| 2.10 | 90 | 95 |
| 2.31 | 95 | 100 |
| -- | - | - |
| -- | - | - |
| -- | - | - |

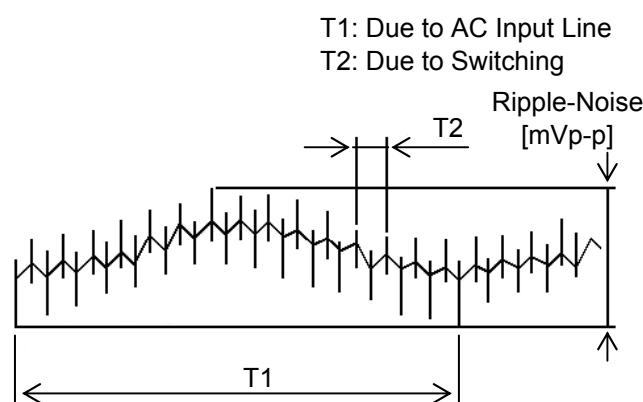


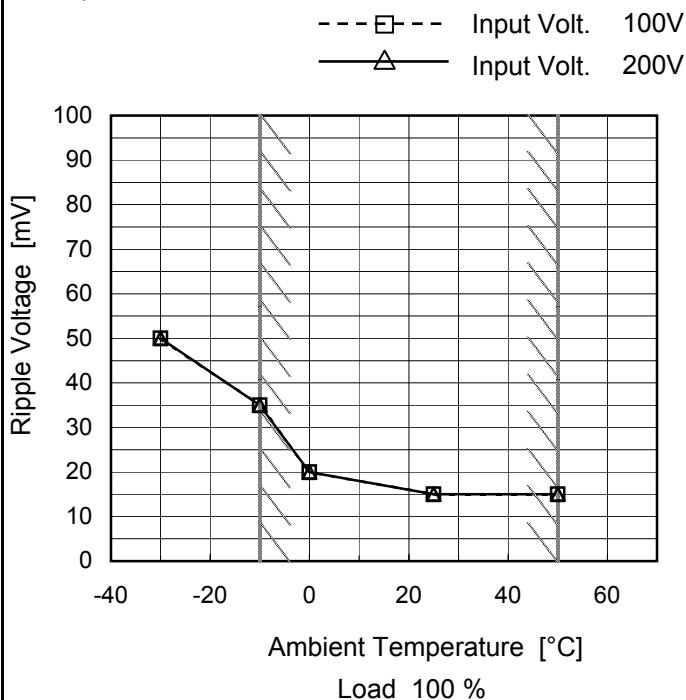
Fig. Complex Ripple Wave Form

COSEL

| | |
|--------|-----------------------------------|
| Model | LFA75F-36 |
| Item | Ripple Voltage (by Ambient Temp.) |
| Object | +36V2.1A |

Testing Circuitry Figure C

1. Graph



2. Values

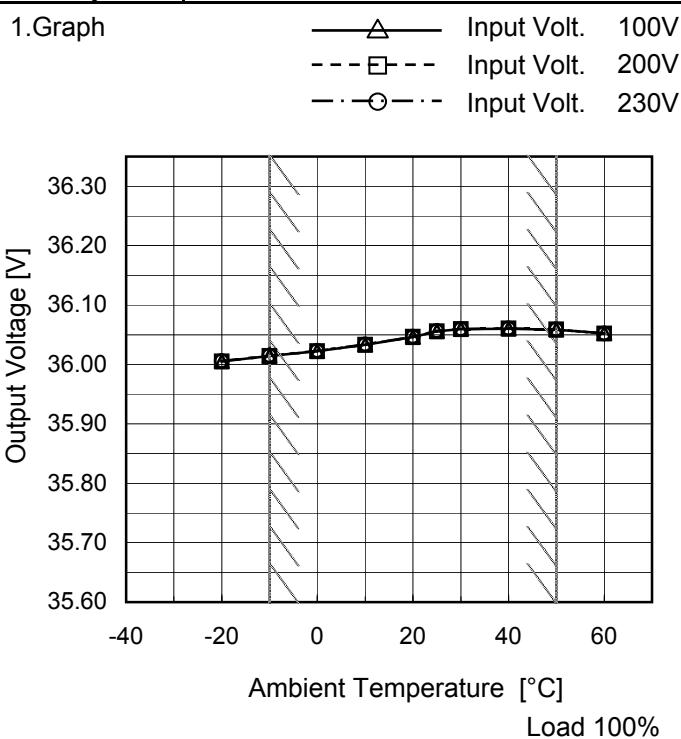
| Ambient Temperature [°C] | Ripple Voltage [mV] | |
|--------------------------|---------------------|---------------------|
| | Input Volt. 100 [V] | Input Volt. 200 [V] |
| -30 | 50 | 50 |
| -10 | 35 | 35 |
| 0 | 20 | 20 |
| 25 | 15 | 15 |
| 50 | 15 | 15 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

Measured by 20 MHz Oscilloscope.

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

COSEL

| | |
|--------|---------------------------|
| Model | LFA75F-36 |
| Item | Ambient Temperature Drift |
| Object | +36V2.1A |



Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Output Voltage [V] | | |
|--------------------------|--------------------|--------------------|--------------------|
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] |
| -20 | 36.005 | 36.005 | 36.006 |
| -10 | 36.014 | 36.014 | 36.015 |
| 0 | 36.022 | 36.022 | 36.023 |
| 10 | 36.033 | 36.033 | 36.034 |
| 20 | 36.046 | 36.047 | 36.047 |
| 25 | 36.056 | 36.056 | 36.056 |
| 30 | 36.060 | 36.060 | 36.060 |
| 40 | 36.060 | 36.060 | 36.061 |
| 50 | 36.059 | 36.059 | 36.059 |
| 60 | 36.052 | 36.052 | 36.052 |
| -- | - | - | - |

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



| | | |
|--------|-------------------------|-------------------------------|
| Model | LFA75F-36 | Testing Circuitry Figure A |
| Item | Output Voltage Accuracy | |
| Object | +36V2.1A | |

1. 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 - 50°C

Input Voltage : 85 - 264V

Load Current : 0 - 2.1A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

2. Values

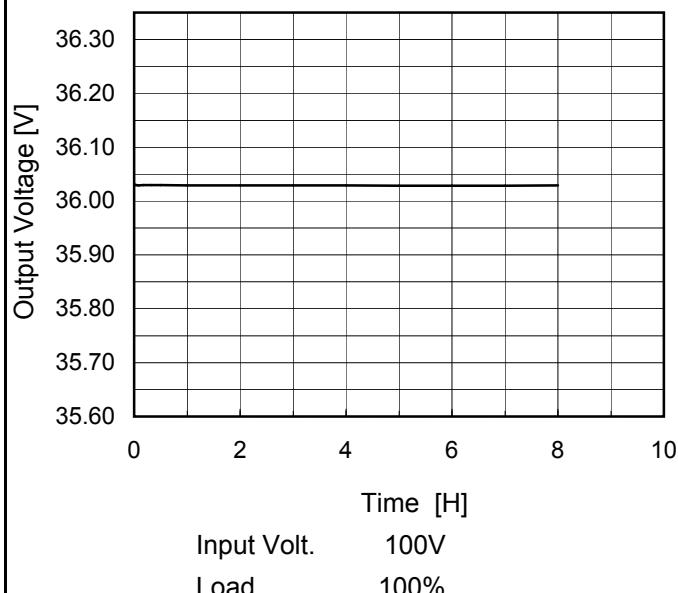
| Item | Temperature [°C] | Input Voltage[V] | Output | | Output Voltage Accuracy | |
|-----------------|---------------------|---------------------|------------|------------|-------------------------|------------|
| | | | Current[A] | Voltage[V] | Value [mV] | Ration [%] |
| Maximum Voltage | 40 | 85 | 0 | 36.069 | ± 28 | ± 0.1 |
| Minimum Voltage | -10 | 85 | 2.1 | 36.014 | | |

COSEL

| | |
|--------|------------------|
| Model | LFA75F-36 |
| Item | Time Lapse Drift |
| Object | +36V2.1A |

Temperature 25°C
 Testing Circuitry Figure A

1.Graph



2.Values

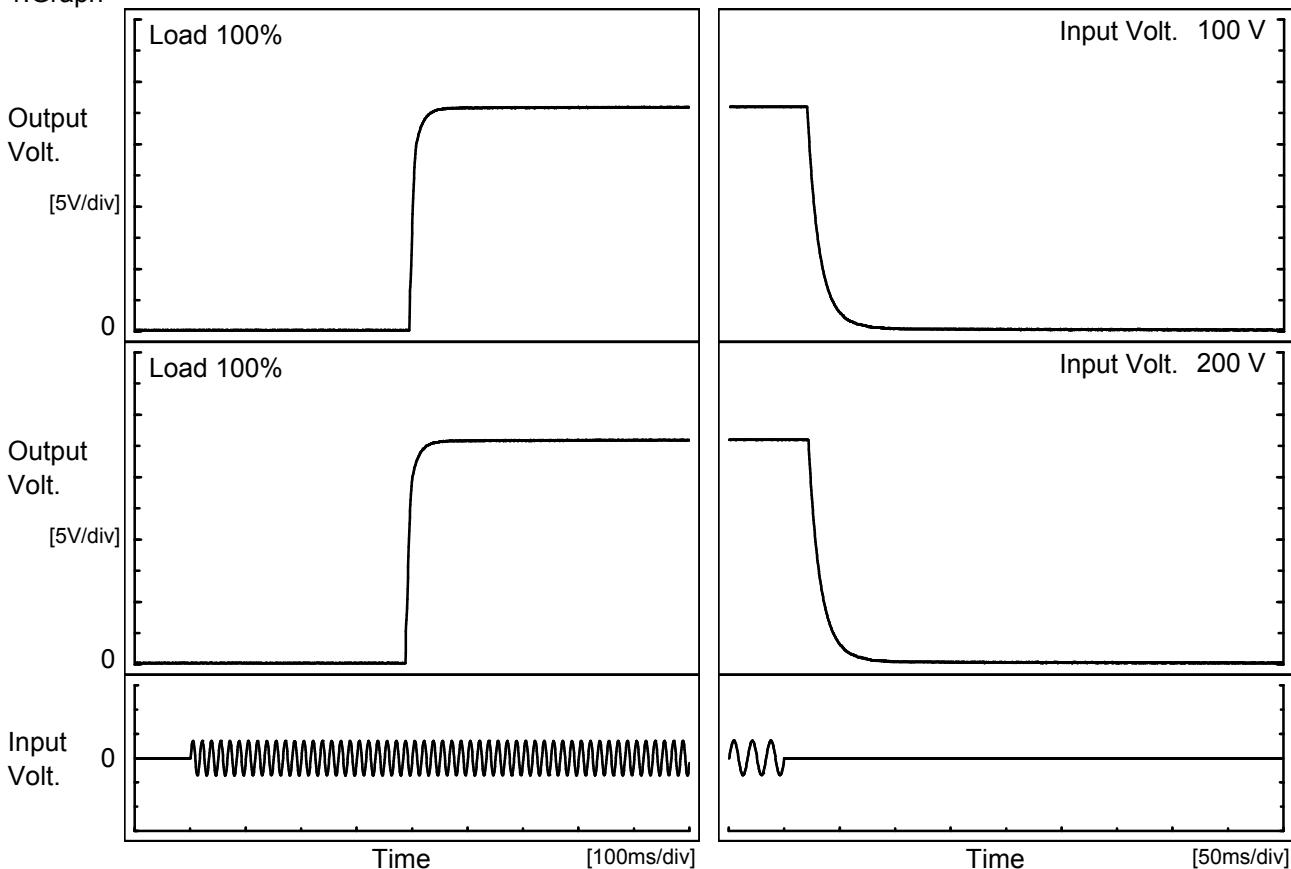
| Time since start [H] | Output Voltage [V] |
|----------------------|--------------------|
| 0.0 | 36.029 |
| 0.5 | 36.030 |
| 1.0 | 36.029 |
| 2.0 | 36.029 |
| 3.0 | 36.029 |
| 4.0 | 36.029 |
| 5.0 | 36.029 |
| 6.0 | 36.029 |
| 7.0 | 36.029 |
| 8.0 | 36.029 |

* The characteristic of AC200V is equal.

COSEL

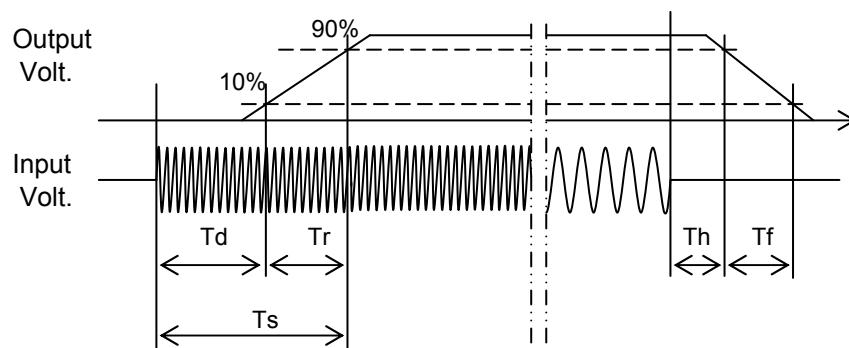
| | | | |
|--------|--------------------|-------------------|----------|
| Model | LFA75F-36 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +36V2.1A | | |

1. Graph



2. Values

| Input Volt. | Time | Td | Tr | Ts | Th | Tf | [ms] |
|-------------|------|-------|------|-------|------|------|------|
| 100 V | | 396.0 | 19.5 | 415.5 | 21.3 | 25.3 | |
| 200 V | | 389.0 | 19.5 | 408.5 | 22.8 | 25.3 | |



COSEL

| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|--|-------------------|--|----------|-----------|----|----|----|----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|----|---|---|--|
| Item | Hold-Up Time | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V2.1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Hold-Up Time [ms]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>75</td><td>46</td><td>19</td></tr> <tr> <td>85</td><td>47</td><td>20</td></tr> <tr> <td>100</td><td>48</td><td>20</td></tr> <tr> <td>120</td><td>49</td><td>21</td></tr> <tr> <td>200</td><td>50</td><td>22</td></tr> <tr> <td>230</td><td>51</td><td>22</td></tr> <tr> <td>264</td><td>51</td><td>23</td></tr> <tr> <td>280</td><td>54</td><td>23</td></tr> <tr> <td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | | Input Voltage [V] | Hold-Up Time [ms] | | Load 50% | Load 100% | 75 | 46 | 19 | 85 | 47 | 20 | 100 | 48 | 20 | 120 | 49 | 21 | 200 | 50 | 22 | 230 | 51 | 22 | 264 | 51 | 23 | 280 | 54 | 23 | -- | - | - | |
| Input Voltage [V] | Hold-Up Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 46 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 47 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 48 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 49 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 50 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 51 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 51 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 54 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

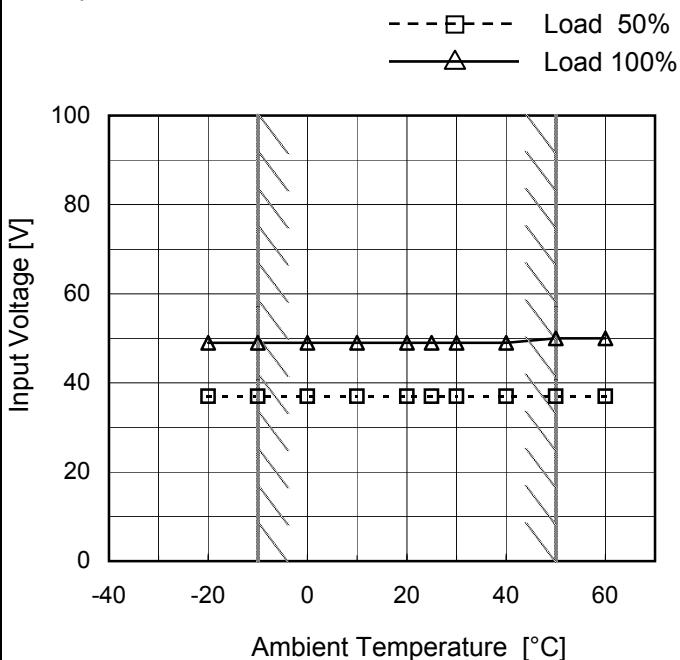
COSEL

| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|----------------------------------|--------------------|------------------|-----------|------|-----|--------------------|--------------------|--------------------|------|----|----|------|------|-----|-----|------|------|----|----|------|------|----|----|------|------|----|----|------|------|----|----|----|------|----|----|----|------|----|----|----|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Instantaneous Interruption Compensation | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V2.1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p style="text-align: center;"> —△— Input Volt. 100V ---□--- Input Volt. 200V ---○--- Input Volt. 230V </p> <table border="1"> <caption>Data points estimated from Graph 1</caption> <thead> <tr> <th>Load Current [A]</th> <th>100V [ms]</th> <th>200V [ms]</th> <th>230V [ms]</th> </tr> </thead> <tbody> <tr><td>0.40</td><td>121</td><td>123</td><td>125</td></tr> <tr><td>0.80</td><td>63</td><td>65</td><td>65</td></tr> <tr><td>1.20</td><td>40</td><td>43</td><td>44</td></tr> <tr><td>1.60</td><td>30</td><td>31</td><td>32</td></tr> <tr><td>2.00</td><td>21</td><td>23</td><td>23</td></tr> <tr><td>2.10</td><td>20</td><td>21</td><td>21</td></tr> <tr><td>2.31</td><td>13</td><td>15</td><td>15</td></tr> </tbody> </table> | Load Current [A] | 100V [ms] | 200V [ms] | 230V [ms] | 0.40 | 121 | 123 | 125 | 0.80 | 63 | 65 | 65 | 1.20 | 40 | 43 | 44 | 1.60 | 30 | 31 | 32 | 2.00 | 21 | 23 | 23 | 2.10 | 20 | 21 | 21 | 2.31 | 13 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | |
| Load Current [A] | 100V [ms] | 200V [ms] | 230V [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 121 | 123 | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 63 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 40 | 43 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 30 | 31 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 21 | 23 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 20 | 21 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 13 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.40</td><td>121</td><td>123</td><td>125</td></tr> <tr><td>0.80</td><td>63</td><td>65</td><td>65</td></tr> <tr><td>1.20</td><td>40</td><td>43</td><td>44</td></tr> <tr><td>1.60</td><td>30</td><td>31</td><td>32</td></tr> <tr><td>2.00</td><td>21</td><td>23</td><td>23</td></tr> <tr><td>2.10</td><td>20</td><td>21</td><td>21</td></tr> <tr><td>2.31</td><td>13</td><td>15</td><td>15</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] | Time [ms] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | - | - | - | 0.40 | 121 | 123 | 125 | 0.80 | 63 | 65 | 65 | 1.20 | 40 | 43 | 44 | 1.60 | 30 | 31 | 32 | 2.00 | 21 | 23 | 23 | 2.10 | 20 | 21 | 21 | 2.31 | 13 | 15 | 15 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 121 | 123 | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 63 | 65 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 40 | 43 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.60 | 30 | 31 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 21 | 23 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.10 | 20 | 21 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.31 | 13 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: | Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|---|
| Model | LFA75F-36 |
| Item | Minimum Input Voltage for Regulated Output Voltage |
| Object | +36V2.1A |

1.Graph



Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Input Voltage [V] | |
|-----------------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| -20 | 37 | 49 |
| -10 | 37 | 49 |
| 0 | 37 | 49 |
| 10 | 37 | 49 |
| 20 | 37 | 49 |
| 25 | 37 | 49 |
| 30 | 37 | 49 |
| 40 | 37 | 49 |
| 50 | 37 | 50 |
| 60 | 37 | 50 |
| -- | - | - |

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

COSEL

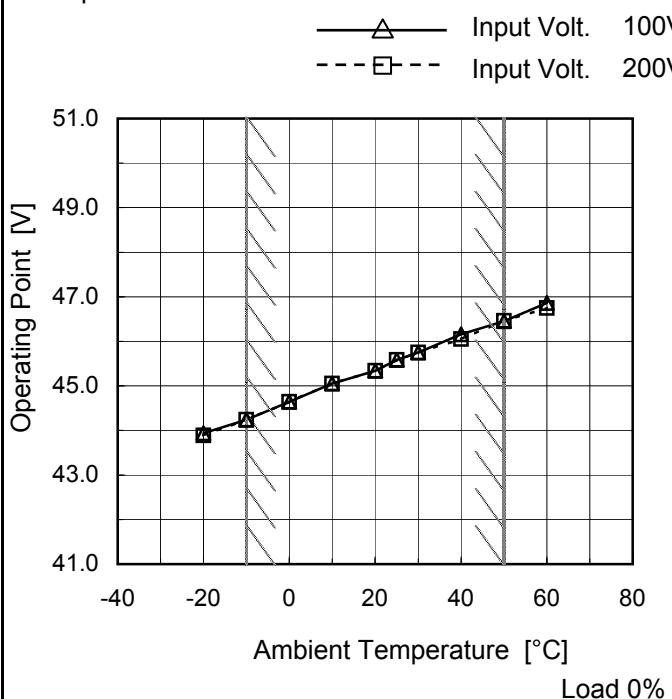
| Model | LFA75F-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|--|--------------------|------------------|--|--------------------|--------------------|------|------|------|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|-----|---|---|-----|---|---|-----|---|---|
| Item | Overcurrent Protection | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V2.1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is less than rated output voltage.</p> | | <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="2">Load Current [A]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> </tr> </thead> <tbody> <tr><td>36.0</td><td>2.51</td><td>2.52</td></tr> <tr><td>34.2</td><td>-</td><td>-</td></tr> <tr><td>32.4</td><td>-</td><td>-</td></tr> <tr><td>28.8</td><td>-</td><td>-</td></tr> <tr><td>25.2</td><td>-</td><td>-</td></tr> <tr><td>21.6</td><td>-</td><td>-</td></tr> <tr><td>18.0</td><td>-</td><td>-</td></tr> <tr><td>14.4</td><td>-</td><td>-</td></tr> <tr><td>10.8</td><td>-</td><td>-</td></tr> <tr><td>7.2</td><td>-</td><td>-</td></tr> <tr><td>3.6</td><td>-</td><td>-</td></tr> <tr><td>0.0</td><td>-</td><td>-</td></tr> </tbody> </table> | Output Voltage [V] | Load Current [A] | | Input Volt. 100[V] | Input Volt. 200[V] | 36.0 | 2.51 | 2.52 | 34.2 | - | - | 32.4 | - | - | 28.8 | - | - | 25.2 | - | - | 21.6 | - | - | 18.0 | - | - | 14.4 | - | - | 10.8 | - | - | 7.2 | - | - | 3.6 | - | - | 0.0 | - | - |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36.0 | 2.51 | 2.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34.2 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32.4 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28.8 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25.2 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21.6 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18.0 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.4 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.8 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.2 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | |
|--------|------------------------|
| Model | LFA75F-36 |
| Item | Overvoltage Protection |
| Object | +36V2.1A |

Testing Circuitry Figure A

1.Graph



2.Values

| Ambient Temperature [°C] | Operating Point [V] | |
|--------------------------|---------------------|--------------------|
| | Input Volt. 100[V] | Input Volt. 200[V] |
| -20 | 43.94 | 43.89 |
| -10 | 44.24 | 44.24 |
| 0 | 44.64 | 44.64 |
| 10 | 45.05 | 45.05 |
| 20 | 45.34 | 45.34 |
| 25 | 45.58 | 45.58 |
| 30 | 45.75 | 45.75 |
| 40 | 46.16 | 46.05 |
| 50 | 46.45 | 46.46 |
| 60 | 46.86 | 46.75 |
| -- | - | - |

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

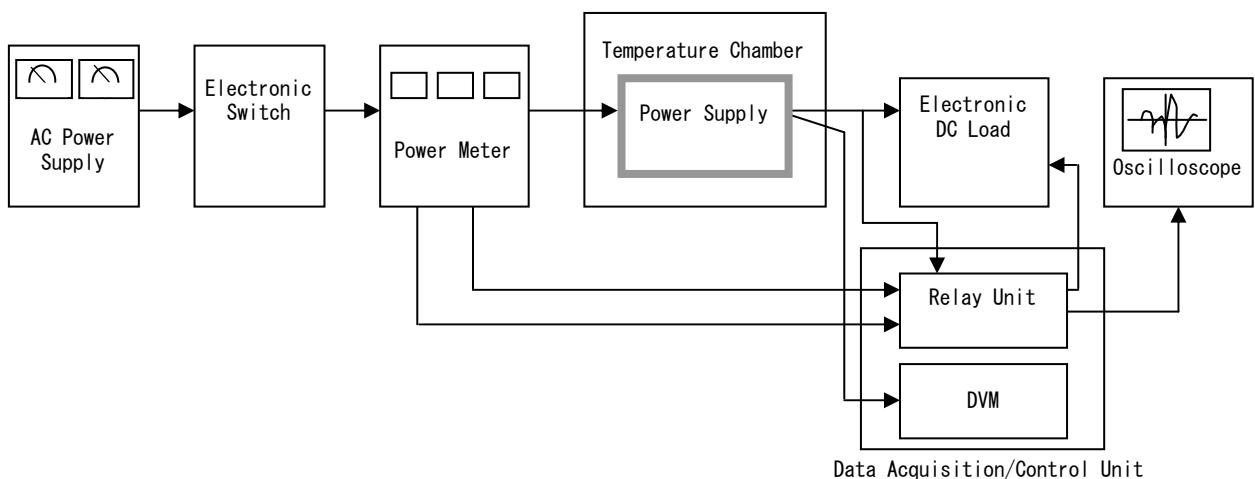


Figure A

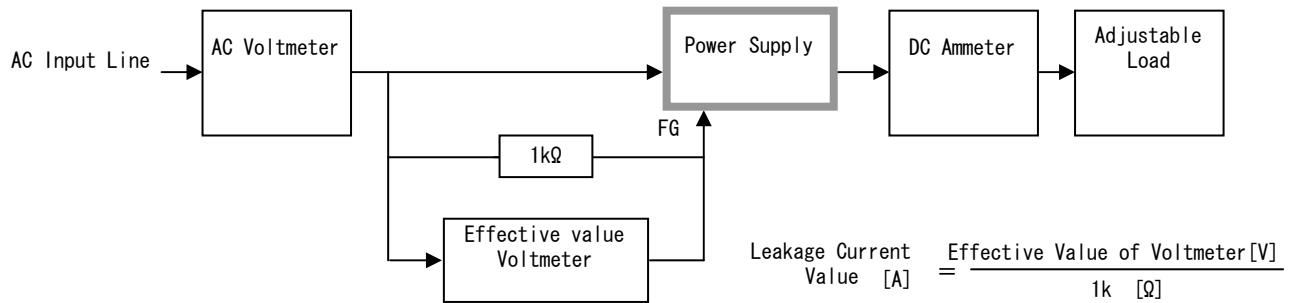


Figure B (DEN-AN)

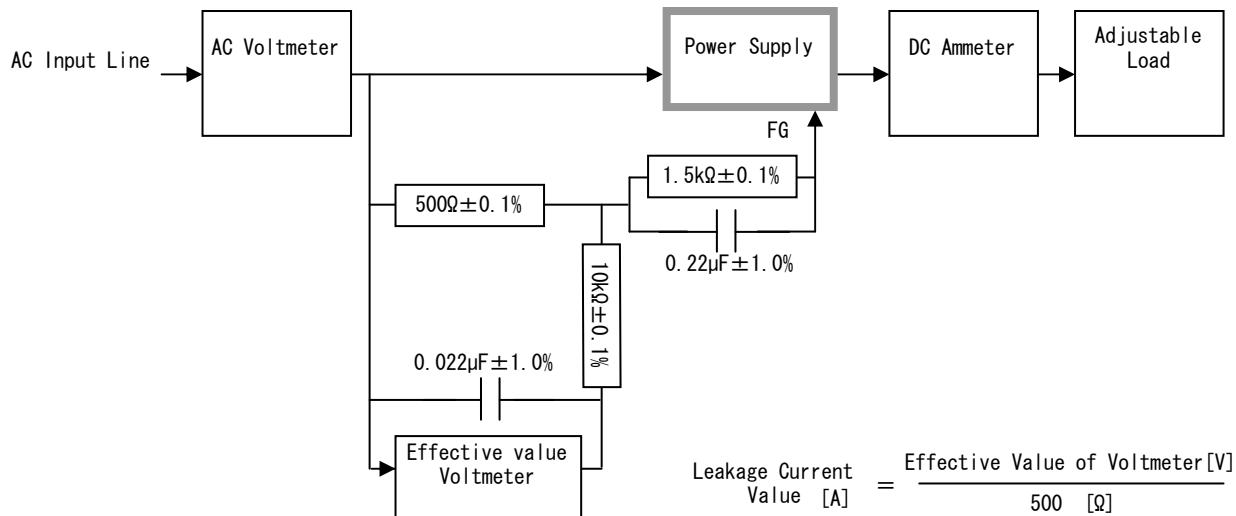


Figure B (IEC60950-1)

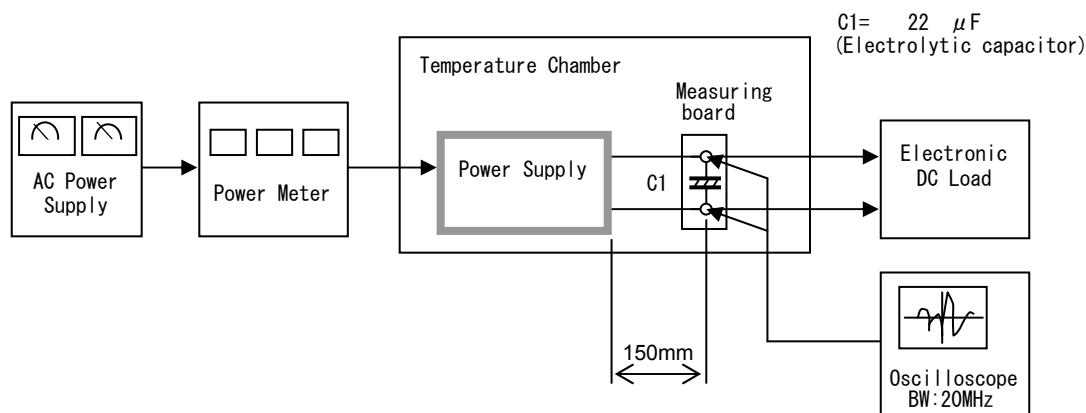


Figure C