

# TEST DATA OF LDA75F-24-H

Regulated DC Power Supply  
Dec.27. 2004

Approved by : *K. Shiho*  
K.Shiho Design Manager

Prepared by : *M. Horita*  
M.Horita Design Engineer

**COSEL CO.,LTD.**

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| <p>Model LDA75F-24-H</p>   |                                 | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>   |                    |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
|--|---------------------------------|--|--------------------|-------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item   | Input Current (by Load Current) |  |                    |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Object   | _____                           |  |                    |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>1. Graph</p> <p>                     —△— Input Volt. 100V<br/>                     - - □ - - Input Volt. 200V<br/>                     - - ○ - - Input Volt. 230V                 </p> <p>Input Current [A]</p> <p>Load Current [A]</p> |                                 | <p>2. Values</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. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.066</td><td>0.074</td><td>0.075</td></tr> <tr><td>0.60</td><td>0.377</td><td>0.284</td><td>0.267</td></tr> <tr><td>1.20</td><td>0.657</td><td>0.447</td><td>0.412</td></tr> <tr><td>1.80</td><td>0.941</td><td>0.600</td><td>0.549</td></tr> <tr><td>2.40</td><td>1.233</td><td>0.754</td><td>0.688</td></tr> <tr><td>3.00</td><td>1.523</td><td>0.914</td><td>0.836</td></tr> <tr><td>3.20</td><td>1.628</td><td>0.975</td><td>0.893</td></tr> <tr><td>3.52</td><td>1.784</td><td>1.065</td><td>0.972</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 | 0.066 | 0.074 | 0.075 | 0.60 | 0.377 | 0.284 | 0.267 | 1.20 | 0.657 | 0.447 | 0.412 | 1.80 | 0.941 | 0.600 | 0.549 | 2.40 | 1.233 | 0.754 | 0.688 | 3.00 | 1.523 | 0.914 | 0.836 | 3.20 | 1.628 | 0.975 | 0.893 | 3.52 | 1.784 | 1.065 | 0.972 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]   | Input Current [A]               |  |                    |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
|  | Input Volt. 100[V]              | Input Volt. 200[V]   | Input Volt. 230[V] |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00   | 0.066                           | 0.074  | 0.075              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.60   | 0.377                           | 0.284  | 0.267              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.20   | 0.657                           | 0.447  | 0.412              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.80   | 0.941                           | 0.600  | 0.549              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40   | 1.233                           | 0.754  | 0.688              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.00   | 1.523                           | 0.914  | 0.836              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20   | 1.628                           | 0.975  | 0.893              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.52   | 1.784                           | 1.065  | 0.972              |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                               | -  | -                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                               | -  | -                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                               | -  | -                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated load current.</p>   |                                 |  |                    |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |



| <b>COSEL</b>   |  |   |                    |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
|--|--|---|--------------------|-----------------|--|--|--------------------|--------------------|--------------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|--|
| Model  | LDA75F-24-H  | Temperature   | 25°C               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| Item   | Input Power (by Load Current)  | Testing Circuitry   | Figure A           |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| Object   | _____  |   |                    |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 1.Graph  | <p>                     —△— Input Volt. 100V<br/>                     - - - □ - - - Input Volt. 200V<br/>                     - · - ○ - · - - Input Volt. 230V                 </p> <p style="text-align: center;">Input Power [W]</p> <p style="text-align: center;">Load Current [A]</p> | 2.Values  |                    |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
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| Load Current [A]   | Input Power [W]  |   |                    |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
|  | Input Volt. 100[V]   | Input Volt. 200[V]  | Input Volt. 230[V] |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 0.00   | 2.4  | 4.4   | 5.1                |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 0.60   | 19.0   | 22.2  | 23.4               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 1.20   | 35.6   | 38.8  | 40.1               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 1.80   | 52.1   | 55.1  | 56.4               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 2.40   | 68.8   | 71.5  | 72.7               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 3.00   | 86.1   | 88.0  | 88.7               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 3.20   | 91.8   | 93.4  | 94.3               |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 3.52   | 101.0  | 102.2   | 103.7              |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --   | -  | -   | -                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --   | -  | -   | -                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --   | -  | -   | -                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |
| <p>Note: Slanted line shows the range of the rated load current.</p> |  |   |                    |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |  |



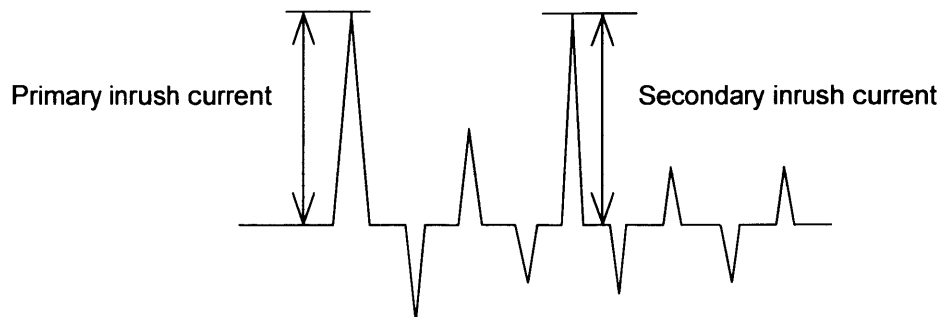
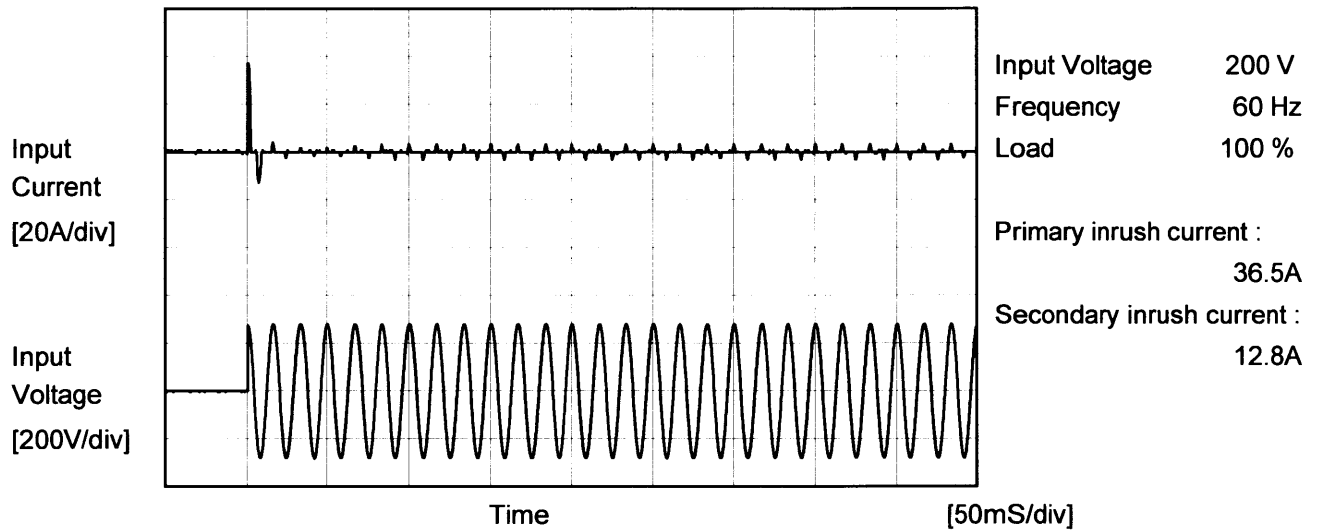
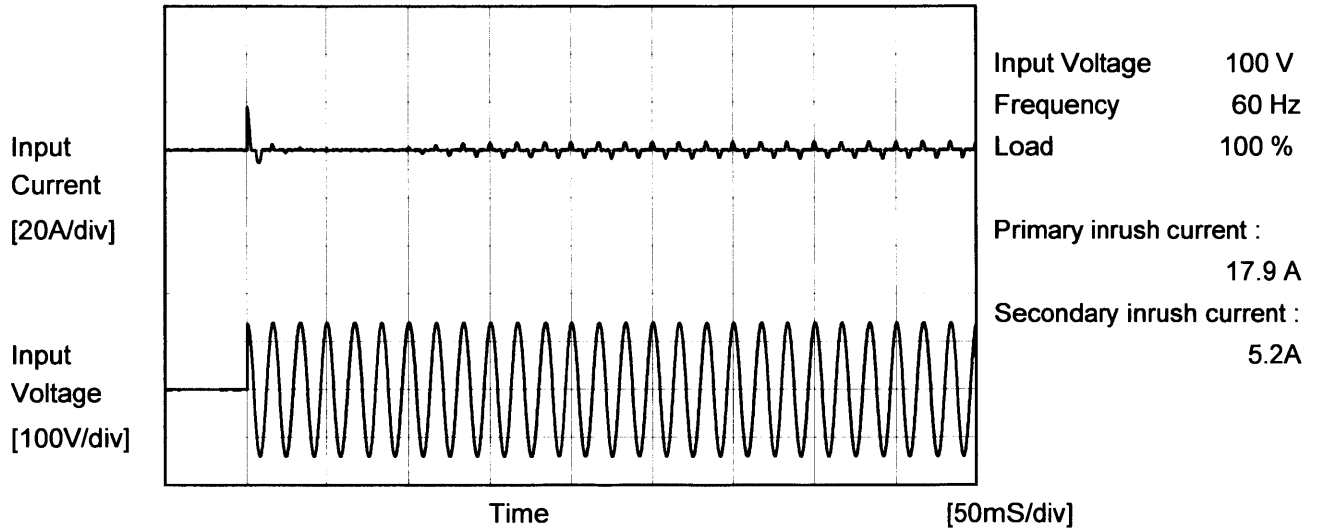
| Model  |                | LDA75F-24-H   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
|--|----------------|---|--|-------------------|----------------|--|----------|-----------|----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|----|---|---|----|---|---|----|---|---|
| Item   |                | Efficiency (by Input Voltage)   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| Object   |                | Temperature 25°C<br>Testing Circuitry Figure A  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 1.Graph  |                | 2.Values  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| <p>---□--- Load 50%<br/>—△— Load 100%</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> |                | <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>85</td> <td>83.2</td> <td>83.3</td> </tr> <tr> <td>100</td> <td>83.2</td> <td>84.5</td> </tr> <tr> <td>120</td> <td>82.7</td> <td>84.7</td> </tr> <tr> <td>200</td> <td>77.9</td> <td>82.7</td> </tr> <tr> <td>230</td> <td>75.7</td> <td>81.6</td> </tr> <tr> <td>264</td> <td>73.1</td> <td>80.5</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> |  | Input Voltage [V] | Efficiency [%] |  | Load 50% | Load 100% | 85 | 83.2 | 83.3 | 100 | 83.2 | 84.5 | 120 | 82.7 | 84.7 | 200 | 77.9 | 82.7 | 230 | 75.7 | 81.6 | 264 | 73.1 | 80.5 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]  | Efficiency [%] |   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
|  | Load 50%       | Load 100%   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 85   | 83.2           | 83.3  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 100  | 83.2           | 84.5  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 120  | 82.7           | 84.7  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 200  | 77.9           | 82.7  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 230  | 75.7           | 81.6  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 264  | 73.1           | 80.5  |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --   | -              | -   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --   | -              | -   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --   | -              | -   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated input voltage.</p>                    |                |   |  |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |



| <p><b>Model</b> LDA75F-24-H</p>   |                    | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>   |                    |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
|---|--------------------|--|--------------------|------------------|----------------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|
| <p><b>Item</b> Efficiency (by Load Current)</p>   |                    |  |                    |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| <p><b>Object</b> _____</p>  |                    |  |                    |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>1. Graph</p> <p>                     —△— Input Volt. 100V<br/>                     - - □ - - Input Volt. 200V<br/>                     - - ○ - - Input Volt. 230V                 </p> <p>Efficiency [%]</p> <p>Load Current [A]</p> |                    | <p>2. Values</p> <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>0.60</td><td>76.2</td><td>65.3</td><td>61.9</td></tr> <tr><td>1.20</td><td>81.4</td><td>74.6</td><td>72.2</td></tr> <tr><td>1.80</td><td>83.4</td><td>78.8</td><td>77.0</td></tr> <tr><td>2.40</td><td>84.2</td><td>81.0</td><td>79.7</td></tr> <tr><td>3.00</td><td>84.1</td><td>82.3</td><td>81.6</td></tr> <tr><td>3.20</td><td>84.1</td><td>82.7</td><td>81.9</td></tr> <tr><td>3.52</td><td>84.1</td><td>83.1</td><td>81.9</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 | - | - | - | 0.60 | 76.2 | 65.3 | 61.9 | 1.20 | 81.4 | 74.6 | 72.2 | 1.80 | 83.4 | 78.8 | 77.0 | 2.40 | 84.2 | 81.0 | 79.7 | 3.00 | 84.1 | 82.3 | 81.6 | 3.20 | 84.1 | 82.7 | 81.9 | 3.52 | 84.1 | 83.1 | 81.9 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]  | Efficiency [%]     |  |                    |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
|   | Input Volt. 100[V] | Input Volt. 200[V]   | Input Volt. 230[V] |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00  | -                  | -  | -                  |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.60  | 76.2               | 65.3   | 61.9               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.20  | 81.4               | 74.6   | 72.2               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.80  | 83.4               | 78.8   | 77.0               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40  | 84.2               | 81.0   | 79.7               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.00  | 84.1               | 82.3   | 81.6               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20  | 84.1               | 82.7   | 81.9               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.52  | 84.1               | 83.1   | 81.9               |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -  | -                  |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -  | -                  |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -  | -                  |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated load current.</p>  |                    |  |                    |                  |                |  |  |                    |                    |                    |      |   |   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |



|               |  |                   |          |
|---------------|--|-------------------|----------|
| <b>Model</b>  |  | LDA75F-24-H       |          |
| <b>Item</b>   |  | Temperature       | 25°C     |
| <b>Object</b> |  | Testing Circuitry | Figure A |





| <b>COSEL</b>   |                    |   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
|--|--------------------|---|----------|-------------------|--------------------|--|----------|-----------|----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|----|---|---|----|---|---|----|---|---|
| Model  | LDA75F-24-H        | Temperature   | 25°C     |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| Item   | Line Regulation    | Testing Circuitry   | Figure A |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| Object   | +24V3.2A           |   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p> <div style="text-align: right;"> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> </div> <p style="text-align: center;">Input Voltage [V]</p> |                    | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>24.203</td> <td>24.200</td> </tr> <tr> <td>100</td> <td>24.203</td> <td>24.200</td> </tr> <tr> <td>120</td> <td>24.202</td> <td>24.199</td> </tr> <tr> <td>200</td> <td>24.202</td> <td>24.199</td> </tr> <tr> <td>230</td> <td>24.201</td> <td>24.198</td> </tr> <tr> <td>264</td> <td>24.200</td> <td>24.198</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> |          | Input Voltage [V] | Output Voltage [V] |  | Load 50% | Load 100% | 85 | 24.203 | 24.200 | 100 | 24.203 | 24.200 | 120 | 24.202 | 24.199 | 200 | 24.202 | 24.199 | 230 | 24.201 | 24.198 | 264 | 24.200 | 24.198 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]  | Output Voltage [V] |   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
|  | Load 50%           | Load 100%   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 85   | 24.203             | 24.200  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 100  | 24.203             | 24.200  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 120  | 24.202             | 24.199  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 200  | 24.202             | 24.199  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 230  | 24.201             | 24.198  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 264  | 24.200             | 24.198  |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated input voltage.</p>  |                    |   |          |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |





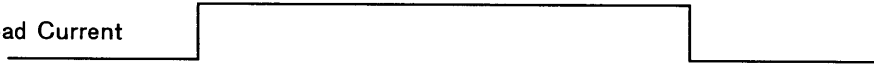
| <p>Model LDA75F-24-H</p>  |                    | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>  |                    |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|---|--------------------|---|--------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|----|---|---|---|----|---|---|---|----|---|---|---|
| <p>Item Load Regulation</p>   |                    |   |                    |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Object +24V3.2A</p>  |                    |   |                    |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>1. Graph</p> <p>                     —△— Input Volt. 100V<br/>                     - - - □ - - - Input Volt. 200V<br/>                     · · · ○ · · · Input Volt. 230V                 </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> |                    | <p>2. Values</p> <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>24.205</td><td>24.205</td><td>24.204</td></tr> <tr><td>0.60</td><td>24.203</td><td>24.204</td><td>24.202</td></tr> <tr><td>1.20</td><td>24.202</td><td>24.203</td><td>24.201</td></tr> <tr><td>1.80</td><td>24.201</td><td>24.202</td><td>24.200</td></tr> <tr><td>2.40</td><td>24.201</td><td>24.201</td><td>24.199</td></tr> <tr><td>3.00</td><td>24.200</td><td>24.200</td><td>24.198</td></tr> <tr><td>3.20</td><td>24.199</td><td>24.199</td><td>24.197</td></tr> <tr><td>3.52</td><td>24.199</td><td>24.198</td><td>24.197</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 | 24.205 | 24.205 | 24.204 | 0.60 | 24.203 | 24.204 | 24.202 | 1.20 | 24.202 | 24.203 | 24.201 | 1.80 | 24.201 | 24.202 | 24.200 | 2.40 | 24.201 | 24.201 | 24.199 | 3.00 | 24.200 | 24.200 | 24.198 | 3.20 | 24.199 | 24.199 | 24.197 | 3.52 | 24.199 | 24.198 | 24.197 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]  | Output Voltage [V] |   |                    |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|   | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V] |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00  | 24.205             | 24.205  | 24.204             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.60  | 24.203             | 24.204  | 24.202             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.20  | 24.202             | 24.203  | 24.201             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.80  | 24.201             | 24.202  | 24.200             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40  | 24.201             | 24.201  | 24.199             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.00  | 24.200             | 24.200  | 24.198             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20  | 24.199             | 24.199  | 24.197             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.52  | 24.199             | 24.198  | 24.197             |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated load current.</p>  |                    |   |                    |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |



|        |                                 |                   |          |
|--------|---------------------------------|-------------------|----------|
| Model  | LDA75F-24-H                     | Temperature       | 25°C     |
| Item   | Dynamic Load Response<br>動的負荷変動 | Testing Circuitry | Figure A |
| Object | +24V3.2A                        |                   |          |

Input Volt. 100 V  
Cycle 1000 ms

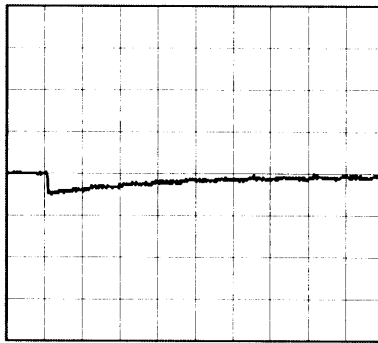
Load Current



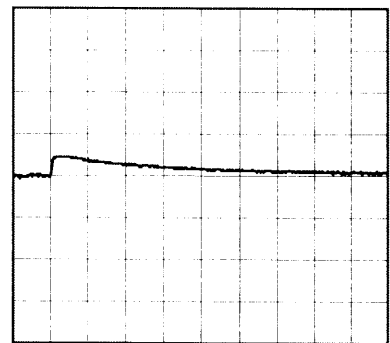
Min. Load (0A) ←→

Load 100% (3.2A)

500 mV/div



10 ms/div

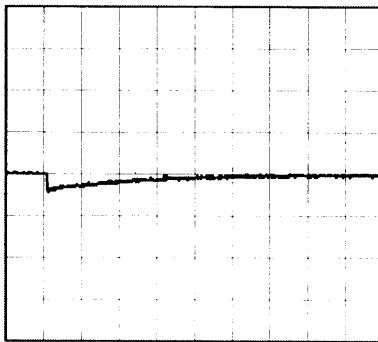


10 ms/div

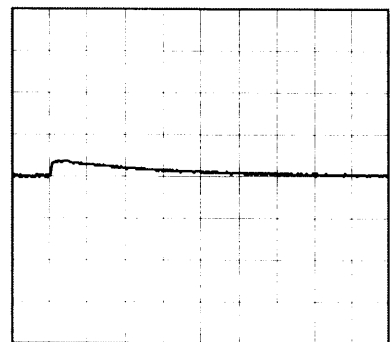
Min. Load (0A) ←→

Load 50% (1.6A)

500 mV/div



10 ms/div

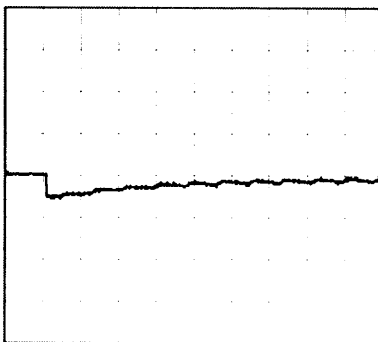


10 ms/div

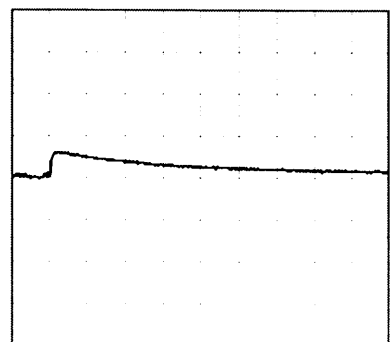
Load 0% (0A) ←→

Peak(4.5A)

500 mV/div



10 ms/div



10 ms/div



| <b>COSEL</b>   |                                  |                     |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
|--|----------------------------------|---------------------|---------------------|--|---------------------|---------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|----|---|---|----|---|---|
| Model  | LDA75F-24-H                      | Temperature         | 25°C                |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| Item   | Ripple Voltage (by Load Current) | Testing Circuitry   | Figure A            |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| Object   | +24V3.2A                         |                     |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| <p>1. Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 100V</p> <p>- -○- - Input Volt. 200V</p> </div> <p>2. Values</p> <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>15</td><td>25</td></tr> <tr><td>0.60</td><td>35</td><td>35</td></tr> <tr><td>1.20</td><td>50</td><td>50</td></tr> <tr><td>1.80</td><td>50</td><td>55</td></tr> <tr><td>2.40</td><td>55</td><td>55</td></tr> <tr><td>3.00</td><td>65</td><td>55</td></tr> <tr><td>3.20</td><td>70</td><td>55</td></tr> <tr><td>3.52</td><td>75</td><td>60</td></tr> <tr><td>4.50</td><td>85</td><td>60</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 | 15 | 25 | 0.60 | 35 | 35 | 1.20 | 50 | 50 | 1.80 | 50 | 55 | 2.40 | 55 | 55 | 3.00 | 65 | 55 | 3.20 | 70 | 55 | 3.52 | 75 | 60 | 4.50 | 85 | 60 | -- | - | - | -- | - | - |
| Load Current [A]   | Ripple Voltage [mV]              |                     |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
|  | Input Volt. 100 [V]              | Input Volt. 200 [V] |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 0.00   | 15                               | 25                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 0.60   | 35                               | 35                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 1.20   | 50                               | 50                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 1.80   | 50                               | 55                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 2.40   | 55                               | 55                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 3.00   | 65                               | 55                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 3.20   | 70                               | 55                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 3.52   | 75                               | 60                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| 4.50   | 85                               | 60                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| --   | -                                | -                   |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| --   | -                                | -                   |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| <p>Measured by 20 MHz Oscilloscope.<br/>                 Ripple Voltage is shown as p-p in the figure below.<br/>                 Note: Slanted line shows the range of the rated load current.</p>  |                                  |                     |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |
| <div style="text-align: center;"> <p>T1: Due to AC Input Line<br/>                     T2: Due to Switching</p> <p>Ripple [mVp-p]</p> <p>Fig. Complex Ripple Wave Form</p> </div>  |                                  |                     |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |

| <p><b>Model</b> LDA75F-24-H</p>   |                     | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
|---|---------------------|---|--|------------------|-------------------|--|---------------------|---------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|-----|----|----|---|---|----|---|---|
| <p><b>Item</b> Ripple-Noise</p>   |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| <p><b>Object</b> +24V3.2A</p>   |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| <p>1. Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 100V<br/>- -○- - Input Volt. 200V</p> </div> <p>Ripple-Noise [mV]</p> <p>Load Current [A]</p> <p>Measured by 20 MHz Oscilloscope.<br/>Ripple-Noise is shown as p-p in the figure below.<br/>Note: Slanted line shows the range of the rated load current.</p> |                     | <p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple-Noise [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>30</td><td>45</td></tr> <tr><td>0.60</td><td>45</td><td>45</td></tr> <tr><td>1.20</td><td>60</td><td>60</td></tr> <tr><td>1.80</td><td>65</td><td>70</td></tr> <tr><td>2.40</td><td>75</td><td>70</td></tr> <tr><td>3.00</td><td>85</td><td>70</td></tr> <tr><td>3.20</td><td>90</td><td>70</td></tr> <tr><td>3.52</td><td>95</td><td>70</td></tr> <tr><td>4.50</td><td>125</td><td>90</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> |  | Load Current [A] | Ripple-Noise [mV] |  | Input Volt. 100 [V] | Input Volt. 200 [V] | 0.00 | 30 | 45 | 0.60 | 45 | 45 | 1.20 | 60 | 60 | 1.80 | 65 | 70 | 2.40 | 75 | 70 | 3.00 | 85 | 70 | 3.20 | 90 | 70 | 3.52 | 95 | 70 | 4.50 | 125 | 90 | -- | - | - | -- | - | - |
| Load Current [A]  | Ripple-Noise [mV]   |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
|   | Input Volt. 100 [V] | Input Volt. 200 [V]   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 0.00  | 30                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 0.60  | 45                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 1.20  | 60                  | 60  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 1.80  | 65                  | 70  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 2.40  | 75                  | 70  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 3.00  | 85                  | 70  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 3.20  | 90                  | 70  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 3.52  | 95                  | 70  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| 4.50  | 125                 | 90  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| --  | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| --  | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |
| <p>T1: Due to AC Input Line<br/>T2: Due to Switching</p> <p>Ripple-Noise [mVp-p]</p> <p>Fig. Complex Ripple Wave Form</p>   |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |     |    |    |   |   |    |   |   |



| Model  |                     | LDA75F-24-H  | Testing Circuitry Figure A |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
|--|---------------------|--|----------------------------|---------------------|--|---------------------|---------------------|-----|----|-----|-----|----|-----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|--|
| Item   |                     | Ripple Voltage (by Ambient Temp.)  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| Object   |                     | +24V3.2A   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 1.Graph  |                     | <p>---□--- Input Volt. 100V<br/>—△— Input Volt. 200V</p> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Load 100 %</p>  | 2.Values                   |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
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| Ambient Temperature [°C]   | Ripple Voltage [mV] |  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
|  | Input Volt. 100 [V] | Input Volt. 200 [V]  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| -20  | 95                  | 115  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| -10  | 90                  | 105  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 0  | 85                  | 90   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 10   | 75                  | 80   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 20   | 70                  | 65   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 25   | 70                  | 55   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 30   | 65                  | 55   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 40   | 65                  | 50   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 50   | 65                  | 50   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| 60   | 65                  | 50   |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| --   | -                   | -  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| Measured by 20 MHz Oscilloscope.                                     |                     |  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| Note: Slanted line shows the range of the rated ambient temperature. |                     |  |                            |                     |  |                     |                     |     |    |     |     |    |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |



| <b>Model</b>  |                    | LDA75F-24-H               |   | Testing Circuitry Figure A |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|---|--------------------|---------------------------|---|----------------------------|--|--------------------------|--------------------|--|--|--------------------|--------------------|--------------------|-----|--------|--------|--------|-----|--------|--------|--------|---|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|---|---|---|----|---|---|---|----|---|---|---|
| <b>Item</b>   |                    | Ambient Temperature Drift |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <b>Object</b>   |                    | +24V3.2A                  |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph   |                    | —△— Input Volt. 100V      | 2.Values  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|   |                    | ---□--- Input Volt. 200V  | <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</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>-20</td><td>24.233</td><td>24.233</td><td>24.232</td></tr> <tr><td>-10</td><td>24.226</td><td>24.226</td><td>24.225</td></tr> <tr><td>0</td><td>24.220</td><td>24.220</td><td>24.219</td></tr> <tr><td>10</td><td>24.215</td><td>24.214</td><td>24.213</td></tr> <tr><td>25</td><td>24.206</td><td>24.206</td><td>24.205</td></tr> <tr><td>40</td><td>24.194</td><td>24.194</td><td>24.193</td></tr> <tr><td>50</td><td>24.182</td><td>24.181</td><td>24.180</td></tr> <tr><td>60</td><td>24.166</td><td>24.165</td><td>24.164</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> |                            |  | Ambient Temperature [°C] | Output Voltage [V] |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | -20 | 24.233 | 24.233 | 24.232 | -10 | 24.226 | 24.226 | 24.225 | 0 | 24.220 | 24.220 | 24.219 | 10 | 24.215 | 24.214 | 24.213 | 25 | 24.206 | 24.206 | 24.205 | 40 | 24.194 | 24.194 | 24.193 | 50 | 24.182 | 24.181 | 24.180 | 60 | 24.166 | 24.165 | 24.164 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Ambient Temperature [°C]  | Output Voltage [V] |                           |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|   | Input Volt. 100[V] | Input Volt. 200[V]        | Input Volt. 230[V]  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| -20   | 24.233             | 24.233                    | 24.232  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| -10   | 24.226             | 24.226                    | 24.225  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0   | 24.220             | 24.220                    | 24.219  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 10  | 24.215             | 24.214                    | 24.213  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 25  | 24.206             | 24.206                    | 24.205  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 40  | 24.194             | 24.194                    | 24.193  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 50  | 24.182             | 24.181                    | 24.180  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 60  | 24.166             | 24.165                    | 24.164  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -                         | -   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -                         | -   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -                         | -   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|   |                    | ---○--- Input Volt. 230V  |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p style="text-align: center;">Ambient Temperature [°C]<br/>Load 100%</p>   |                    |                           |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated ambient temperature.</p> |                    |                           |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |



|              |                         |                            |
|--------------|-------------------------|----------------------------|
| <b>COSEL</b> |                         |                            |
| Model        | LDA75F-24-H             |                            |
| Item         | Output Voltage Accuracy | Testing Circuitry Figure A |
| Object       | +24V3.2A                |                            |

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 - 3.2A

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

\* 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 | -10              | 85               | 0          | 24.230     | ±27                     | ±0.1       |
| Minimum Voltage | 50               | 264              | 3.2        | 24.177     |                         |            |



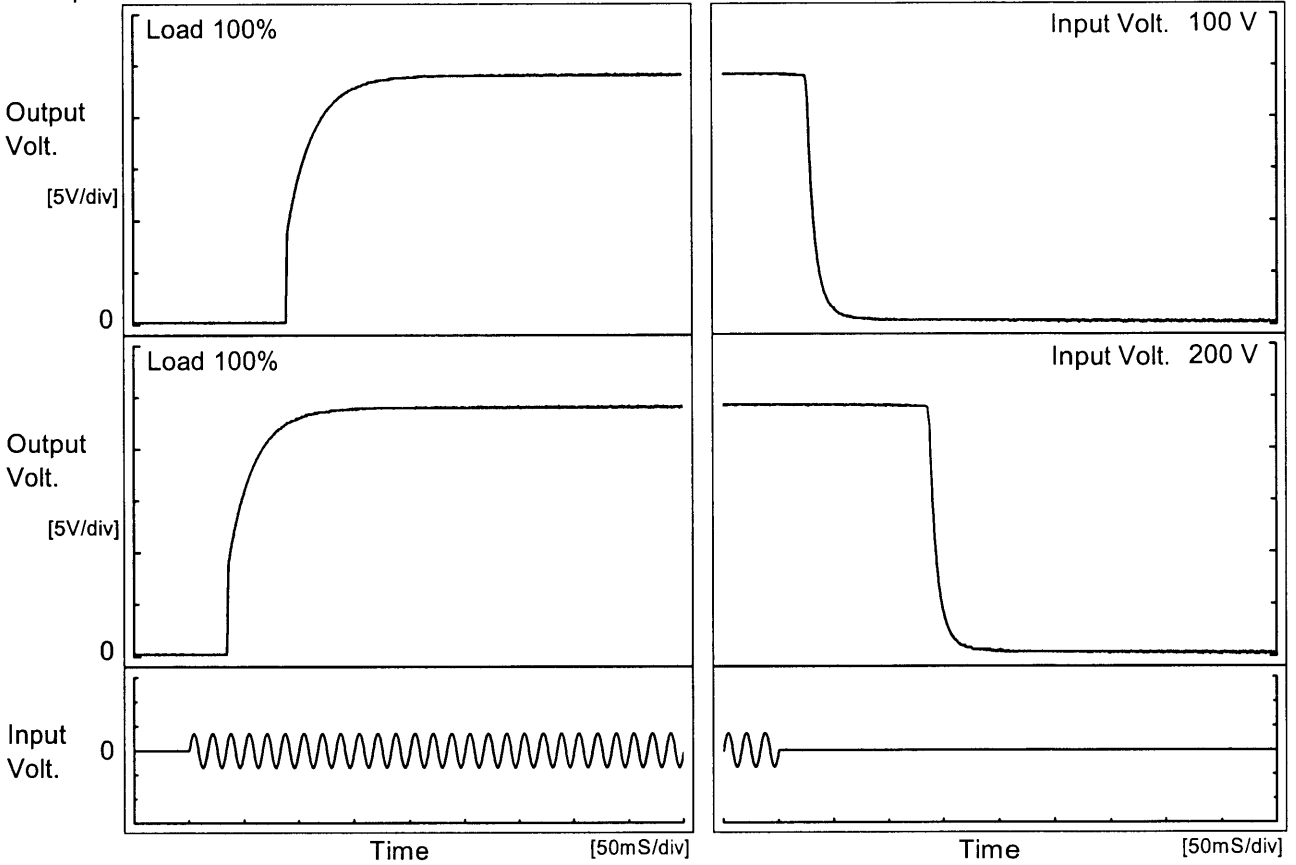
| <b>COSEL</b>  |                    |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
|---|--------------------|--|----------------------|--------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Model   | LDA75F-24-H        | Temperature 25°C<br>Testing Circuitry Figure A   |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Item  | Time Lapse Drift   |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Object  | +24V3.2A           |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1.Graph   |                    | 2.Values   |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| <p style="text-align: center;">Time [H]</p> <p style="text-align: center;">Input Volt. 100V<br/>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>24.208</td></tr> <tr><td>0.5</td><td>24.195</td></tr> <tr><td>1.0</td><td>24.196</td></tr> <tr><td>2.0</td><td>24.196</td></tr> <tr><td>3.0</td><td>24.196</td></tr> <tr><td>4.0</td><td>24.197</td></tr> <tr><td>5.0</td><td>24.197</td></tr> <tr><td>6.0</td><td>24.197</td></tr> <tr><td>7.0</td><td>24.197</td></tr> <tr><td>8.0</td><td>24.197</td></tr> </tbody> </table> | Time since start [H] | Output Voltage [V] | 0.0 | 24.208 | 0.5 | 24.195 | 1.0 | 24.196 | 2.0 | 24.196 | 3.0 | 24.196 | 4.0 | 24.197 | 5.0 | 24.197 | 6.0 | 24.197 | 7.0 | 24.197 | 8.0 | 24.197 |
| Time since start [H]  | Output Voltage [V] |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.0   | 24.208             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.5   | 24.195             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1.0   | 24.196             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 2.0   | 24.196             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 3.0   | 24.196             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 4.0   | 24.197             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 5.0   | 24.197             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 6.0   | 24.197             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 7.0   | 24.197             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 8.0   | 24.197             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| * The characteristic of AC200V is equal.  |                    |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |





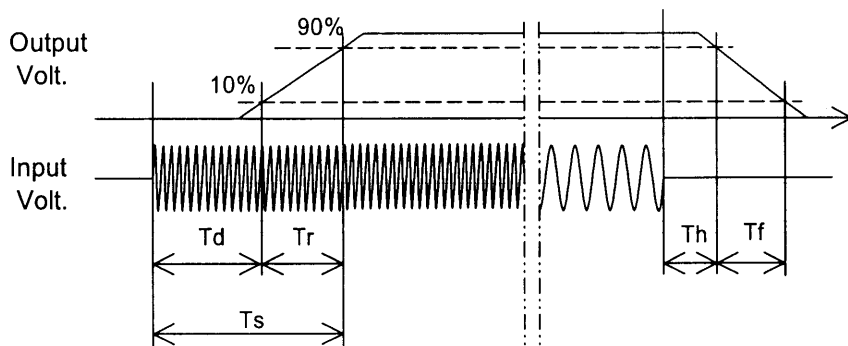
|               |  |                    |  |
|---------------|--|--------------------|--|
| <b>Model</b>  |  | LDA75F-24-H        | Temperature 25°C<br>Testing Circuitry Figure A |
| <b>Item</b>   |  | Rise and Fall Time |  |
| <b>Object</b> |  | +24V3.2A           |  |

1. Graph



2. Values

| Input Volt. | Time | Td   | Tr   | Ts    | Th    | Tf   |
|-------------|------|------|------|-------|-------|------|
| 100 V       |      | 89.8 | 46.5 | 136.3 | 26.8  | 17.3 |
| 200 V       |      | 34.8 | 45.8 | 80.6  | 137.8 | 17.0 |





| <b>COSEL</b>   |                   |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
|--|-------------------|--|-------------------|-------------------|--|----------|-----------|----|----|----|-----|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|---|----|---|---|----|---|---|
| Model  | LDA75F-24-H       |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| Item   | Hold-Up Time      | Temperature 25°C<br>Testing Circuitry Figure A   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| Object   | +24V3.2A          |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p> <p>---□--- Load 50%<br/>—△— Load 100%</p>   |                   | <p>2.Values</p> <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>85</td> <td>32</td> <td>14</td> </tr> <tr> <td>100</td> <td>52</td> <td>25</td> </tr> <tr> <td>120</td> <td>84</td> <td>41</td> </tr> <tr> <td>200</td> <td>269</td> <td>137</td> </tr> <tr> <td>230</td> <td>360</td> <td>186</td> </tr> <tr> <td>264</td> <td>479</td> <td>250</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> | Input Voltage [V] | Hold-Up Time [ms] |  | Load 50% | Load 100% | 85 | 32 | 14 | 100 | 52 | 25 | 120 | 84 | 41 | 200 | 269 | 137 | 230 | 360 | 186 | 264 | 479 | 250 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]  | Hold-Up Time [ms] |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
|  | Load 50%          | Load 100%  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 85   | 32                | 14   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 100  | 52                | 25   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 120  | 84                | 41   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 200  | 269               | 137  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 230  | 360               | 186  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 264  | 479               | 250  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --   | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --   | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --   | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.<br/>Note: Slanted line shows the range of the rated input voltage.</p> |                   |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |



| <p>Model LDA75F-24-H</p>   |   | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>  |                    |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
|--|---|---|--------------------|-----------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|-----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|----|---|---|---|----|---|---|---|----|---|---|---|
| Item   | Instantaneous Interruption Compensation |   |                    |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| Object   | +24V3.2A                                |   |                    |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>1.Graph</p> <p>                     —△— Input Volt. 100V<br/>                     - - □ - - Input Volt. 200V<br/>                     ··○·· Input Volt. 230V                 </p> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> |   | <p>2.Values</p> <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>0.60</td><td>140</td><td>646</td><td>856</td></tr> <tr><td>1.20</td><td>73</td><td>356</td><td>476</td></tr> <tr><td>1.80</td><td>48</td><td>248</td><td>331</td></tr> <tr><td>2.40</td><td>36</td><td>187</td><td>253</td></tr> <tr><td>3.00</td><td>27</td><td>149</td><td>202</td></tr> <tr><td>3.20</td><td>25</td><td>140</td><td>189</td></tr> <tr><td>3.52</td><td>22</td><td>126</td><td>171</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 | - | - | - | 0.60 | 140 | 646 | 856 | 1.20 | 73 | 356 | 476 | 1.80 | 48 | 248 | 331 | 2.40 | 36 | 187 | 253 | 3.00 | 27 | 149 | 202 | 3.20 | 25 | 140 | 189 | 3.52 | 22 | 126 | 171 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]   | Time [ms]                               |   |                    |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
|  | Input Volt. 100[V]                      | Input Volt. 200[V]  | Input Volt. 230[V] |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00   | -                                       | -   | -                  |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.60   | 140                                     | 646   | 856                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.20   | 73                                      | 356   | 476                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.80   | 48                                      | 248   | 331                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40   | 36                                      | 187   | 253                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.00   | 27                                      | 149   | 202                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20   | 25                                      | 140   | 189                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.52   | 22                                      | 126   | 171                |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                                       | -   | -                  |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                                       | -   | -                  |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                                       | -   | -                  |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated load current.</p>   |   |   |                    |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |



| <b>COSEL</b>   |  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
|--|--|---|--------------------------|-------------------|--|----------|-----------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|----|---|---|
| Model  | LDA75F-24-H  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| Item   | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| Object   | +24V3.2A   |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p> <p style="text-align: right;">             ---□--- Load 50%<br/>             —△— Load 100%         </p> |  | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>56</td><td>63</td></tr> <tr><td>-10</td><td>55</td><td>62</td></tr> <tr><td>0</td><td>54</td><td>61</td></tr> <tr><td>10</td><td>54</td><td>61</td></tr> <tr><td>25</td><td>54</td><td>61</td></tr> <tr><td>40</td><td>53</td><td>60</td></tr> <tr><td>50</td><td>53</td><td>60</td></tr> <tr><td>60</td><td>53</td><td>60</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> | Ambient Temperature [°C] | Input Voltage [V] |  | Load 50% | Load 100% | -20 | 56 | 63 | -10 | 55 | 62 | 0 | 54 | 61 | 10 | 54 | 61 | 25 | 54 | 61 | 40 | 53 | 60 | 50 | 53 | 60 | 60 | 53 | 60 | -- | - | - | -- | - | - | -- | - | - |
| Ambient Temperature [°C]   | Input Voltage [V]                                  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
|  | Load 50%   | Load 100%   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| -20  | 56   | 63  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| -10  | 55   | 62  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 0  | 54   | 61  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 10   | 54   | 61  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 25   | 54   | 61  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 40   | 53   | 60  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 50   | 53   | 60  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 60   | 53   | 60  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated ambient temperature.</p>  |  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |

| <b>COSEL</b>  |                        |  |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
|---|------------------------|--|----------|--------------------|------------------|--|--------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|
| Model   | LDA75F-24-H            | Temperature  | 25°C     |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| Item  | Overcurrent Protection | Testing Circuitry  | Figure A |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| Object  | +24V3.2A               |  |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| <p>1.Graph</p> <p> <span style="display: inline-block; width: 20px; border-bottom: 1px solid black; margin-right: 5px;"></span> Input Volt. 100V<br/> <span style="display: inline-block; width: 20px; border-bottom: 1px solid black; margin-right: 5px;"></span> Input Volt. 200V         </p> <p>Note: Slanted line shows the range of the rated load current.</p> |                        | <p>2.Values</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>24.0</td><td>5.64</td><td>5.80</td></tr> <tr><td>22.8</td><td>5.65</td><td>5.85</td></tr> <tr><td>21.6</td><td>5.68</td><td>5.89</td></tr> <tr><td>19.2</td><td>5.75</td><td>5.96</td></tr> <tr><td>16.8</td><td>5.83</td><td>6.03</td></tr> <tr><td>14.4</td><td>5.92</td><td>6.09</td></tr> <tr><td>12.0</td><td>6.00</td><td>6.15</td></tr> <tr><td>9.6</td><td>6.07</td><td>6.20</td></tr> <tr><td>7.2</td><td>6.15</td><td>6.21</td></tr> <tr><td>4.8</td><td>6.21</td><td>6.11</td></tr> <tr><td>2.4</td><td>6.14</td><td>5.65</td></tr> <tr><td>0.0</td><td>5.90</td><td>6.17</td></tr> </tbody> </table> |          | Output Voltage [V] | Load Current [A] |  | Input Volt. 100[V] | Input Volt. 200[V] | 24.0 | 5.64 | 5.80 | 22.8 | 5.65 | 5.85 | 21.6 | 5.68 | 5.89 | 19.2 | 5.75 | 5.96 | 16.8 | 5.83 | 6.03 | 14.4 | 5.92 | 6.09 | 12.0 | 6.00 | 6.15 | 9.6 | 6.07 | 6.20 | 7.2 | 6.15 | 6.21 | 4.8 | 6.21 | 6.11 | 2.4 | 6.14 | 5.65 | 0.0 | 5.90 | 6.17 |
| Output Voltage [V]  | Load Current [A]       |  |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
|   | Input Volt. 100[V]     | Input Volt. 200[V]   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 24.0  | 5.64                   | 5.80   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 22.8  | 5.65                   | 5.85   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 21.6  | 5.68                   | 5.89   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 19.2  | 5.75                   | 5.96   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 16.8  | 5.83                   | 6.03   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 14.4  | 5.92                   | 6.09   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 12.0  | 6.00                   | 6.15   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 9.6   | 6.07                   | 6.20   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 7.2   | 6.15                   | 6.21   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 4.8   | 6.21                   | 6.11   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 2.4   | 6.14                   | 5.65   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 0.0   | 5.90                   | 6.17   |          |                    |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |



| Model   |                     | LDA75F-24-H   | Testing Circuitry Figure A   |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
|---|---------------------|---|--|--------------------------|---------------------|--|--------------------|--------------------|-----|-------|-------|-----|-------|-------|---|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|---|---|----|---|---|----|---|---|
| Item  |                     | Overvoltage Protection  |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| Object  |                     | +24V3.2A  |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 1.Graph   |                     | <p>                     —△— Input Volt. 100V<br/>                     ---□--- Input Volt. 200V                 </p> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p> | 2.Values   |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
|   |                     |   | <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Operating Point [V]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>29.59</td><td>29.48</td></tr> <tr><td>-10</td><td>29.82</td><td>29.82</td></tr> <tr><td>0</td><td>30.06</td><td>30.00</td></tr> <tr><td>10</td><td>30.24</td><td>30.24</td></tr> <tr><td>25</td><td>30.59</td><td>30.53</td></tr> <tr><td>40</td><td>30.88</td><td>30.88</td></tr> <tr><td>50</td><td>31.06</td><td>31.06</td></tr> <tr><td>60</td><td>31.29</td><td>31.29</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> | Ambient Temperature [°C] | Operating Point [V] |  | Input Volt. 100[V] | Input Volt. 200[V] | -20 | 29.59 | 29.48 | -10 | 29.82 | 29.82 | 0 | 30.06 | 30.00 | 10 | 30.24 | 30.24 | 25 | 30.59 | 30.53 | 40 | 30.88 | 30.88 | 50 | 31.06 | 31.06 | 60 | 31.29 | 31.29 | -- | - | - | -- | - | - | -- | - | - |
| Ambient Temperature [°C]  | Operating Point [V] |   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
|   | Input Volt. 100[V]  | Input Volt. 200[V]  |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| -20   | 29.59               | 29.48   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| -10   | 29.82               | 29.82   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 0   | 30.06               | 30.00   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 10  | 30.24               | 30.24   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 25  | 30.59               | 30.53   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 40  | 30.88               | 30.88   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 50  | 31.06               | 31.06   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 60  | 31.29               | 31.29   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated ambient temperature.</p> |                     |   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |

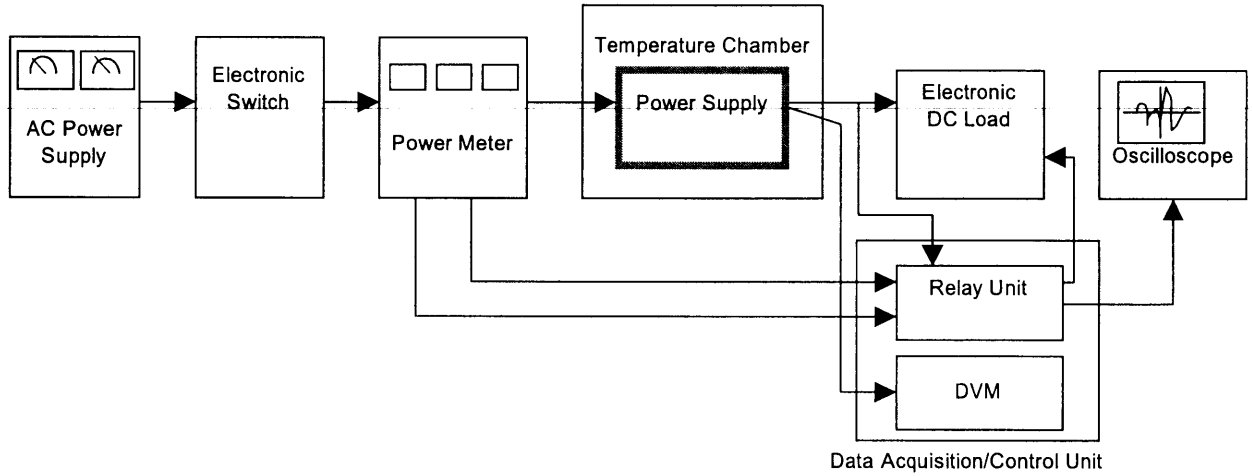


Figure A

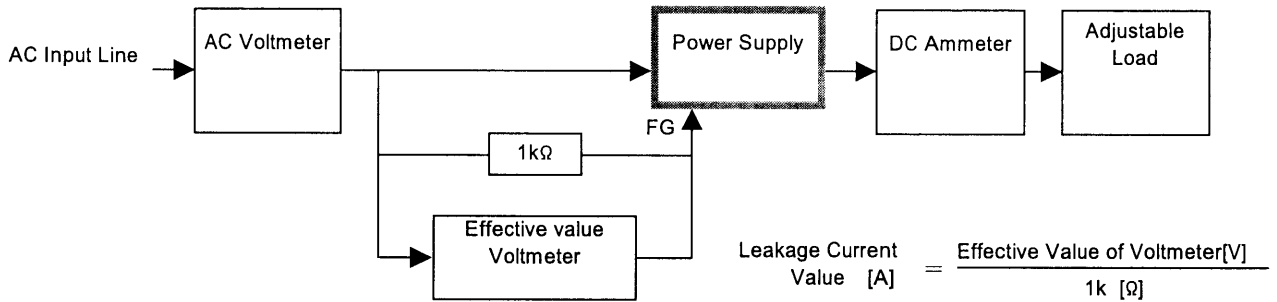


Figure B ( DEN-AN )

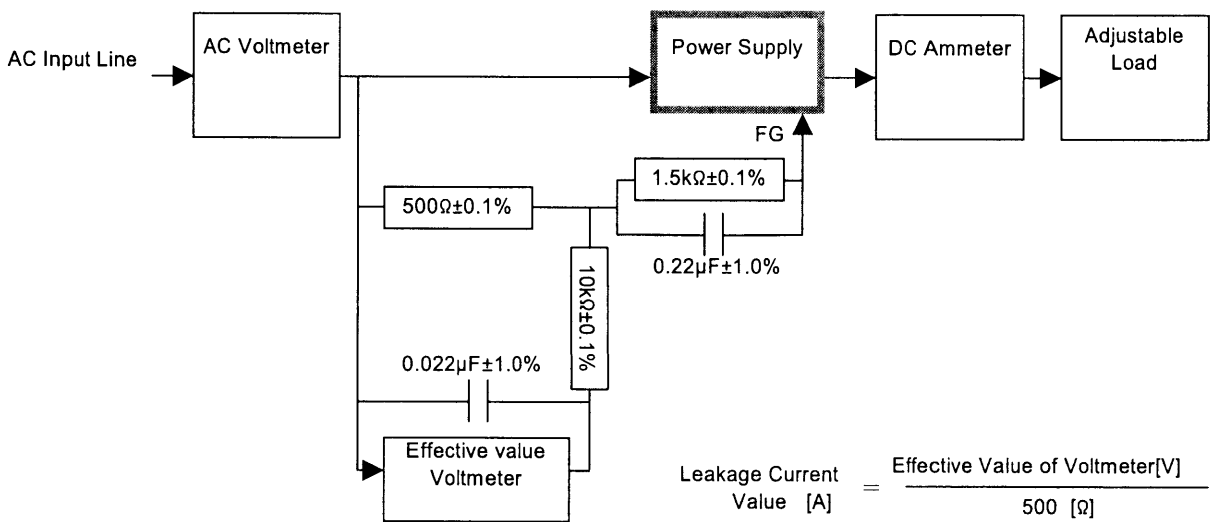


Figure B ( IEC60950 )