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| Model   |                    | LDA75F-18   |                    | Temperature       | 25°C     |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
|---|--------------------|---|--------------------|-------------------|----------|------------------|-------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item  |                    | Input Current (by Load Current)   |                    | Testing Circuitry | Figure A |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Object  |                    | _____   |                    |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph   |                    | —△— Input Volt. 100V<br>- - - □ - - - Input Volt. 200V<br>- · - ○ - · - - Input Volt. 230V  |                    | 2.Values          |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   |                    | <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>0.060</td><td>0.067</td><td>0.069</td></tr> <tr><td>0.80</td><td>0.366</td><td>0.272</td><td>0.256</td></tr> <tr><td>1.60</td><td>0.638</td><td>0.431</td><td>0.399</td></tr> <tr><td>2.40</td><td>0.921</td><td>0.580</td><td>0.532</td></tr> <tr><td>3.20</td><td>1.214</td><td>0.732</td><td>0.669</td></tr> <tr><td>4.00</td><td>1.503</td><td>0.891</td><td>0.815</td></tr> <tr><td>4.20</td><td>1.582</td><td>0.939</td><td>0.859</td></tr> <tr><td>4.62</td><td>1.734</td><td>1.027</td><td>0.936</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 | 0.060 | 0.067 | 0.069 | 0.80 | 0.366 | 0.272 | 0.256 | 1.60 | 0.638 | 0.431 | 0.399 | 2.40 | 0.921 | 0.580 | 0.532 | 3.20 | 1.214 | 0.732 | 0.669 | 4.00 | 1.503 | 0.891 | 0.815 | 4.20 | 1.582 | 0.939 | 0.859 | 4.62 | 1.734 | 1.027 | 0.936 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]  | Input Current [A]  |   |                    |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V] |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00  | 0.060              | 0.067   | 0.069              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.80  | 0.366              | 0.272   | 0.256              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.60  | 0.638              | 0.431   | 0.399              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40  | 0.921              | 0.580   | 0.532              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20  | 1.214              | 0.732   | 0.669              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.00  | 1.503              | 0.891   | 0.815              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.20  | 1.582              | 0.939   | 0.859              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.62  | 1.734              | 1.027   | 0.936              |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                  | -   | -                  |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Note: Slanted line shows the range of the rated load current. |                    |   |                    |                   |          |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |



| Model   |                  | LDA75F-18  |   | Temperature        | 25°C     |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|---|------------------|--|---|--------------------|----------|------------------|-----------------|--|--|--------------------|--------------------|--------------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item  |                  | Input Power (by Load Current)  |   | Testing Circuitry  | Figure A |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Object  |                  | _____  |   |                    |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph   |                  | —△— Input Volt. 100V<br>- - - □ - - - Input Volt. 200V<br>- · - ○ - · - - Input Volt. 230V |   | 2.Values           |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Input Power [W]   |                  |  | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>2.2</td><td>4.1</td><td>4.7</td></tr> <tr><td>0.80</td><td>18.8</td><td>21.8</td><td>22.9</td></tr> <tr><td>1.60</td><td>35.1</td><td>38.3</td><td>39.4</td></tr> <tr><td>2.40</td><td>51.7</td><td>54.4</td><td>55.7</td></tr> <tr><td>3.20</td><td>68.4</td><td>70.8</td><td>71.9</td></tr> <tr><td>4.00</td><td>85.5</td><td>87.1</td><td>88.0</td></tr> <tr><td>4.20</td><td>89.7</td><td>91.2</td><td>91.9</td></tr> <tr><td>4.62</td><td>98.7</td><td>99.8</td><td>101.0</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> |                    |          | Load Current [A] | Input Power [W] |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 2.2 | 4.1 | 4.7 | 0.80 | 18.8 | 21.8 | 22.9 | 1.60 | 35.1 | 38.3 | 39.4 | 2.40 | 51.7 | 54.4 | 55.7 | 3.20 | 68.4 | 70.8 | 71.9 | 4.00 | 85.5 | 87.1 | 88.0 | 4.20 | 89.7 | 91.2 | 91.9 | 4.62 | 98.7 | 99.8 | 101.0 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
|   | Load Current [A] | Input Power [W]  |   |                    |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   |                  | Input Volt. 100[V]   | Input Volt. 200[V]  | Input Volt. 230[V] |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 0.00             | 2.2  | 4.1   | 4.7                |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 0.80             | 18.8   | 21.8  | 22.9               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 1.60             | 35.1   | 38.3  | 39.4               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 2.40             | 51.7   | 54.4  | 55.7               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 3.20             | 68.4   | 70.8  | 71.9               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 4.00             | 85.5   | 87.1  | 88.0               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 4.20             | 89.7   | 91.2  | 91.9               |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | 4.62             | 98.7   | 99.8  | 101.0              |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | --               | -  | -   | -                  |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
|   | --               | -  | -   | -                  |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
| --  | -                | -  | -   |                    |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |
| Note: Slanted line shows the range of the rated load current. |                  |  |   |                    |          |                  |                 |  |  |                    |                    |                    |      |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |   |   |   |    |   |   |   |    |   |   |   |



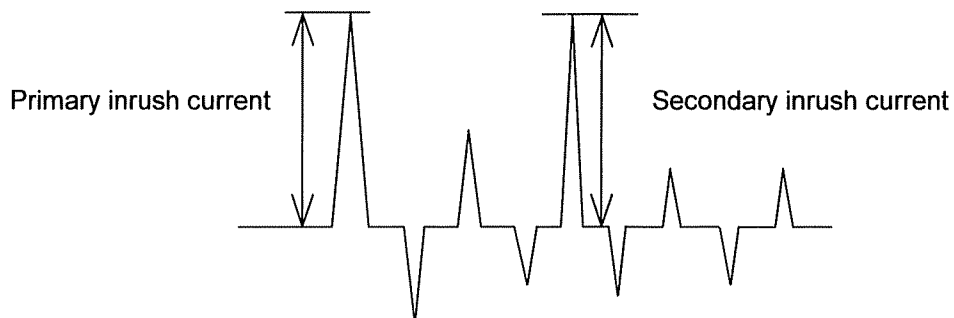
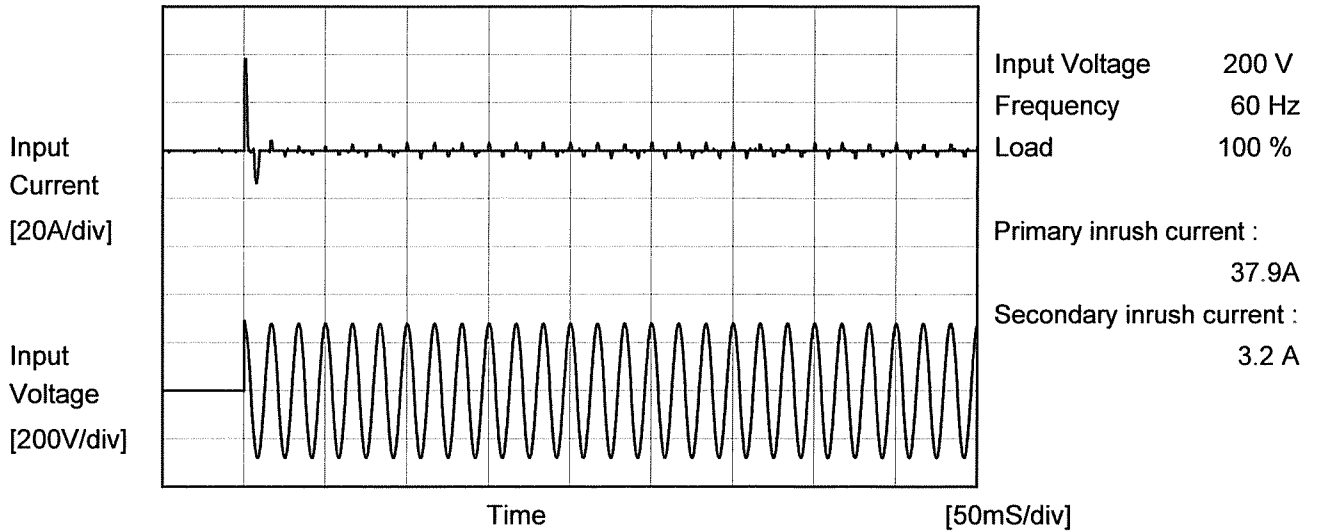
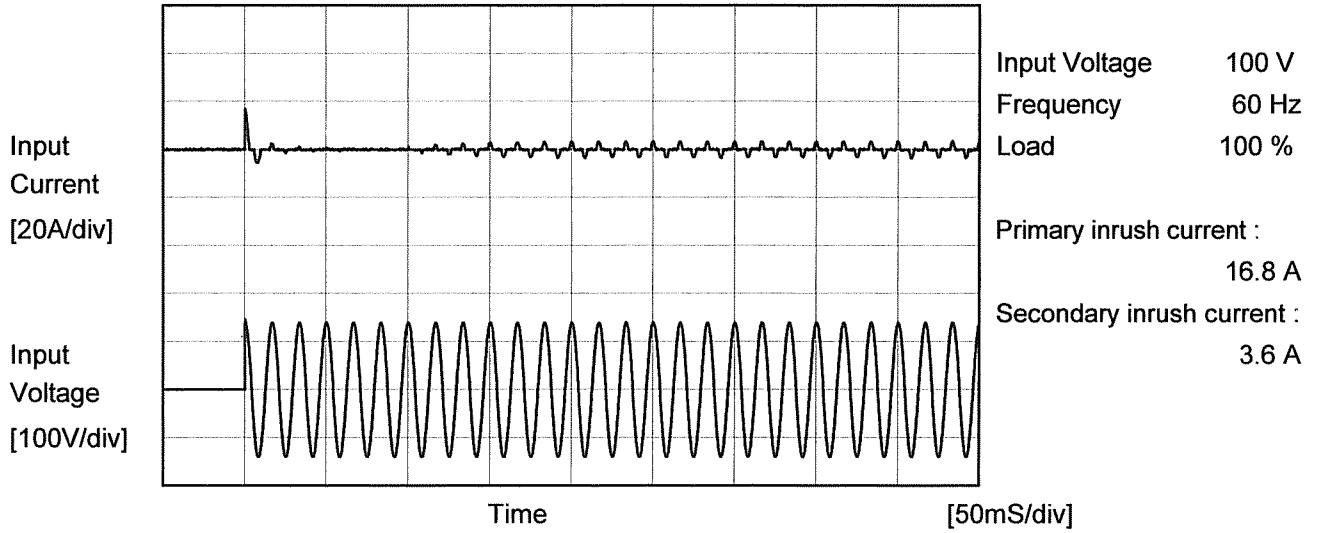
| Model   |                | LDA75F-18                     |   | Temperature       | 25°C     |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
|---|----------------|-------------------------------|---|-------------------|----------|-------------------|----------------|--|----------|-----------|----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|----|---|---|----|---|---|----|---|---|
| Item  |                | Efficiency (by Input Voltage) |   | Testing Circuitry | Figure A |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| Object  |                | _____                         |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 1.Graph   |                |                               | 2.Values  |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| <p>---□--- Load 50%<br/>—△— Load 100%</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>83.1</td> <td>83.8</td> </tr> <tr> <td>100</td> <td>83.7</td> <td>84.9</td> </tr> <tr> <td>120</td> <td>83.1</td> <td>85.2</td> </tr> <tr> <td>200</td> <td>78.5</td> <td>83.4</td> </tr> <tr> <td>230</td> <td>76.1</td> <td>82.6</td> </tr> <tr> <td>264</td> <td>73.7</td> <td>81.2</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 | 83.1 | 83.8 | 100 | 83.7 | 84.9 | 120 | 83.1 | 85.2 | 200 | 78.5 | 83.4 | 230 | 76.1 | 82.6 | 264 | 73.7 | 81.2 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]   | Efficiency [%] |                               |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
|   | Load 50%       | Load 100%                     |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 85  | 83.1           | 83.8                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 100   | 83.7           | 84.9                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 120   | 83.1           | 85.2                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 200   | 78.5           | 83.4                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 230   | 76.1           | 82.6                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| 264   | 73.7           | 81.2                          |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --  | -              | -                             |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --  | -              | -                             |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| --  | -              | -                             |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> |                |                               |   |                   |          |                   |                |  |          |           |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |   |   |    |   |   |    |   |   |



|   |                  |  |                    |                    |          |  |
|---|------------------|--|--------------------|--------------------|----------|--|
| Model   |                  | LDA75F-18  |                    | Temperature        | 25°C     |  |
| Item  |                  | Efficiency (by Load Current)   |                    | Testing Circuitry  | Figure A |  |
| Object  |                  |  |                    |                    |          |  |
| 1.Graph   |                  | —△— Input Volt. 100V<br>- - □ - - Input Volt. 200V<br>- · - ○ - · - Input Volt. 230V |                    | 2.Values           |          |  |
| Efficiency [%]<br>  | Load Current [A] |  | Efficiency [%]     |                    |          |  |
|   |                  | Input Volt. 100[V]   | Input Volt. 200[V] | Input Volt. 230[V] |          |  |
|   | 0.00             | -  | -                  | -                  |          |  |
|   | 0.80             | 75.9   | 65.3               | 62.2               |          |  |
|   | 1.60             | 81.9   | 75.1               | 73.0               |          |  |
|   | 2.40             | 83.7   | 79.5               | 77.7               |          |  |
|   | 3.20             | 84.5   | 81.6               | 80.3               |          |  |
|   | 4.00             | 84.5   | 83.0               | 82.1               |          |  |
|   | 4.20             | 84.6   | 83.2               | 82.6               |          |  |
|   | 4.62             | 84.6   | 83.7               | 82.7               |          |  |
|   | --               | -  | -                  | -                  |          |  |
|   | --               | -  | -                  | -                  |          |  |
|   | --               | -  | -                  | -                  |          |  |
| Note: Slanted line shows the range of the rated load current. |                  |  |                    |                    |          |  |



|        |  |                |  |
|--------|--|----------------|--|
| Model  |  | LDA75F-18      | Temperature 25°C<br>Testing Circuitry Figure A |
| Item   |  | Inrush Current |  |
| Object |  | _____          |  |





| Model  | LDA75F-18          |   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
|--|--------------------|---|-------------------|--------------------|--|----------|-----------|----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|----|---|---|----|---|---|----|---|---|
| Item   | Line Regulation    | Temperature 25°C<br>Testing Circuitry Figure A  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| Object   | +18V4.2A           |   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p> <p>--- □ --- Load 50%<br/>— △ — Load 100%</p> <p>Note: Slanted line shows the range of the rated input voltage.</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>18.187</td> <td>18.185</td> </tr> <tr> <td>100</td> <td>18.187</td> <td>18.185</td> </tr> <tr> <td>120</td> <td>18.187</td> <td>18.185</td> </tr> <tr> <td>200</td> <td>18.188</td> <td>18.185</td> </tr> <tr> <td>230</td> <td>18.187</td> <td>18.185</td> </tr> <tr> <td>264</td> <td>18.187</td> <td>18.185</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 | 18.187 | 18.185 | 100 | 18.187 | 18.185 | 120 | 18.187 | 18.185 | 200 | 18.188 | 18.185 | 230 | 18.187 | 18.185 | 264 | 18.187 | 18.185 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]  | Output Voltage [V] |   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
|  | Load 50%           | Load 100%   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 85   | 18.187             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 100  | 18.187             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 120  | 18.187             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 200  | 18.188             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 230  | 18.187             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| 264  | 18.187             | 18.185  |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |
| --   | -                  | -   |                   |                    |  |          |           |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |    |   |   |    |   |   |    |   |   |





| Model  |                    | LDA75F-18   | Temperature  |  | 25°C     |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|--|--------------------|---|--|--|----------|------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item   |                    | Load Regulation   | Testing Circuitry  |  | Figure A |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| Object   |                    | +18V4.2A  | 2.Values   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph  |                    | <p>—△— Input Volt. 100V</p> <p>---□--- Input Volt. 200V</p> <p>-·-○-·- Input Volt. 230V</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>18.190</td><td>18.190</td><td>18.190</td></tr> <tr><td>0.80</td><td>18.188</td><td>18.189</td><td>18.189</td></tr> <tr><td>1.60</td><td>18.187</td><td>18.188</td><td>18.188</td></tr> <tr><td>2.40</td><td>18.186</td><td>18.187</td><td>18.187</td></tr> <tr><td>3.20</td><td>18.185</td><td>18.186</td><td>18.186</td></tr> <tr><td>4.00</td><td>18.184</td><td>18.185</td><td>18.185</td></tr> <tr><td>4.20</td><td>18.184</td><td>18.185</td><td>18.184</td></tr> <tr><td>4.62</td><td>18.184</td><td>18.185</td><td>18.184</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 | 18.190 | 18.190 | 18.190 | 0.80 | 18.188 | 18.189 | 18.189 | 1.60 | 18.187 | 18.188 | 18.188 | 2.40 | 18.186 | 18.187 | 18.187 | 3.20 | 18.185 | 18.186 | 18.186 | 4.00 | 18.184 | 18.185 | 18.185 | 4.20 | 18.184 | 18.185 | 18.184 | 4.62 | 18.184 | 18.185 | 18.184 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]   | Output Voltage [V] |   |  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|  | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V]   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00   | 18.190             | 18.190  | 18.190   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.80   | 18.188             | 18.189  | 18.189   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.60   | 18.187             | 18.188  | 18.188   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 2.40   | 18.186             | 18.187  | 18.187   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 3.20   | 18.185             | 18.186  | 18.186   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.00   | 18.184             | 18.185  | 18.185   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.20   | 18.184             | 18.185  | 18.184   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.62   | 18.184             | 18.185  | 18.184   |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|  |                    |   |  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| <p>Note: Slanted line shows the range of the rated load current.</p> |                    |   |  |  |          |                  |                    |  |  |                    |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |



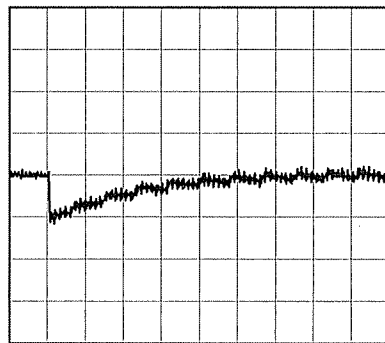
|        |                       |                   |          |
|--------|-----------------------|-------------------|----------|
| Model  | LDA75F-18             | Temperature       | 25°C     |
| Item   | Dynamic Load Response | Testing Circuitry | Figure A |
| Object | +18V4.2A              |                   |          |

Input Volt. 100 V  
 Cycle 1000 ms

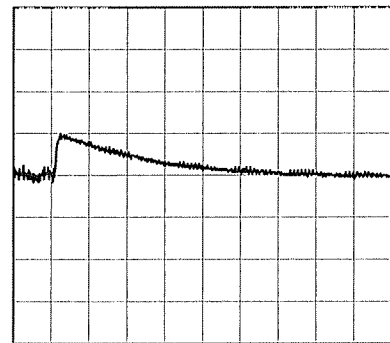


Min. Load (0A) ←→  
 Load 100% (4.2A)

100 mV/div



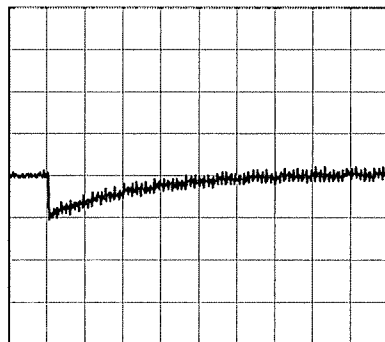
10 ms/div



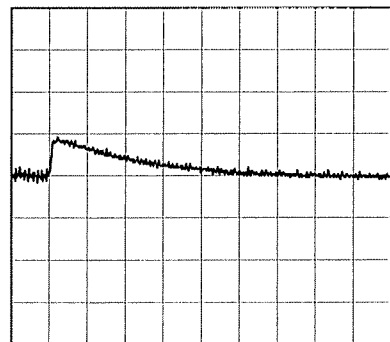
10 ms/div

Min. Load (0A) ←→  
 Load 50% (2.1A)

100 mV/div



10 ms/div



10 ms/div



| <p>Model LDA75F-18</p>  |                     | <p>Temperature 25°C<br/>Testing Circuitry Figure A</p>  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
|---|---------------------|---|------------------|---------------------|--|---------------------|---------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| <p>Item Ripple Voltage (by Load Current)</p>  |                     |   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>Object +18V4.2A</p>  |                     |   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 100V<br/>- -○- - Input Volt. 200V</p> </div> <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> |                     | <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>30</td><td>30</td></tr> <tr><td>0.80</td><td>30</td><td>30</td></tr> <tr><td>1.60</td><td>30</td><td>30</td></tr> <tr><td>2.40</td><td>35</td><td>30</td></tr> <tr><td>3.20</td><td>35</td><td>40</td></tr> <tr><td>4.20</td><td>35</td><td>40</td></tr> <tr><td>4.62</td><td>40</td><td>45</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | Load Current [A] | Ripple Voltage [mV] |  | Input Volt. 100 [V] | Input Volt. 200 [V] | 0.00 | 30 | 30 | 0.80 | 30 | 30 | 1.60 | 30 | 30 | 2.40 | 35 | 30 | 3.20 | 35 | 40 | 4.20 | 35 | 40 | 4.62 | 40 | 45 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A]  | Ripple Voltage [mV] |   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
|   | Input Volt. 100 [V] | Input Volt. 200 [V]   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 0.00  | 30                  | 30  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 0.80  | 30                  | 30  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 1.60  | 30                  | 30  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 2.40  | 35                  | 30  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 3.20  | 35                  | 40  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 4.20  | 35                  | 40  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 4.62  | 40                  | 45  |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --  | -                   | -   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <div style="text-align: center;"> <p>T1: Due to AC Input Line<br/>T2: Due to Switching</p> <p>Fig. Complex Ripple Wave Form</p> </div>  |                     |   |                  |                     |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |



| <p>Model LDA75F-18</p>   |                     | <p>Temperature 25°C</p>   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
|--|---------------------|---|--|------------------|-------------------|--|---------------------|---------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| <p>Item Ripple-Noise</p>   |                     | <p>Testing Circuitry Figure A</p>   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>Object +18V4.2A</p>   |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>1.Graph</p>   |                     | <p>2.Values</p>   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>                     —△— Input Volt. 100V<br/>                     -·-○-·- Input Volt. 200V                 </p> <p>                     Y-axis: Ripple-Noise [mV] (0 to 200)<br/>                     X-axis: Load Current [A] (0.0 to 5.0)                 </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>35</td><td>35</td></tr> <tr><td>0.80</td><td>35</td><td>45</td></tr> <tr><td>1.60</td><td>40</td><td>45</td></tr> <tr><td>2.40</td><td>40</td><td>45</td></tr> <tr><td>3.20</td><td>45</td><td>45</td></tr> <tr><td>4.20</td><td>50</td><td>50</td></tr> <tr><td>4.62</td><td>55</td><td>55</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> |  | Load Current [A] | Ripple-Noise [mV] |  | Input Volt. 100 [V] | Input Volt. 200 [V] | 0.00 | 35 | 35 | 0.80 | 35 | 45 | 1.60 | 40 | 45 | 2.40 | 40 | 45 | 3.20 | 45 | 45 | 4.20 | 50 | 50 | 4.62 | 55 | 55 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A]   | Ripple-Noise [mV]   |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
|  | Input Volt. 100 [V] | Input Volt. 200 [V]   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 0.00   | 35                  | 35  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 0.80   | 35                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 1.60   | 40                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 2.40   | 40                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 3.20   | 45                  | 45  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 4.20   | 50                  | 50  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| 4.62   | 55                  | 55  |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <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>                     T1: Due to AC Input Line<br/>                     T2: Due to Switching<br/>                     Ripple-Noise [mVp-p]                 </p>  |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |
| <p>Fig. Complex Ripple Wave Form</p>   |                     |   |  |                  |                   |  |                     |                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |    |    |   |   |    |   |   |    |   |   |    |   |   |



| Model  |                     | LDA75F-18   | Testing Circuitry Figure A   |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
|--|---------------------|---|--|--------------------------|---------------------|--|---------------------|---------------------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|
| Item   |                     | Ripple Voltage (by Ambient Temp.)   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| Object   |                     | +18V4.2A  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 1.Graph  |                     | <p>                     ---□--- Input Volt. 100V<br/>                     —△— Input Volt. 200V                 </p> <p>                     Ambient Temperature [°C]<br/>                     Load 100 %                 </p> | 2.Values   |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
|  |                     |   | <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</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>-20</td><td>60</td><td>80</td></tr> <tr><td>-10</td><td>60</td><td>65</td></tr> <tr><td>0</td><td>50</td><td>60</td></tr> <tr><td>10</td><td>50</td><td>50</td></tr> <tr><td>25</td><td>45</td><td>50</td></tr> <tr><td>30</td><td>40</td><td>45</td></tr> <tr><td>40</td><td>35</td><td>40</td></tr> <tr><td>50</td><td>30</td><td>35</td></tr> <tr><td>60</td><td>30</td><td>30</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | Ambient Temperature [°C] | Ripple Voltage [mV] |  | Input Volt. 100 [V] | Input Volt. 200 [V] | -20 | 60 | 80 | -10 | 60 | 65 | 0 | 50 | 60 | 10 | 50 | 50 | 25 | 45 | 50 | 30 | 40 | 45 | 40 | 35 | 40 | 50 | 30 | 35 | 60 | 30 | 30 | -- | - | - | -- | - | - |
| Ambient Temperature [°C]   | Ripple Voltage [mV] |   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
|  | Input Volt. 100 [V] | Input Volt. 200 [V]   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| -20  | 60                  | 80  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| -10  | 60                  | 65  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 0  | 50                  | 60  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 10   | 50                  | 50  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 25   | 45                  | 50  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 30   | 40                  | 45  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 40   | 35                  | 40  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 50   | 30                  | 35  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| 60   | 30                  | 30  |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| --   | -                   | -   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| --   | -                   | -   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |
| Measured by 20 MHz Oscilloscope.<br>Note: Slanted line shows the range of the rated ambient temperature. |                     |   |  |                          |                     |  |                     |                     |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |



| Model  |                    | LDA75F-18   | Testing Circuitry Figure A |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|--|--------------------|---|----------------------------|--|--------------------------|--------------------|--|--|--------------------|--------------------|--------------------|-----|--------|--------|--------|-----|--------|--------|--------|---|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|---|---|---|----|---|---|---|----|---|---|---|
| Item   |                    | Ambient Temperature Drift   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| Object   |                    | +18V4.2A  |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph  |                    | <p>—△— Input Volt. 100V</p> <p>---□--- Input Volt. 200V</p> <p>---○--- Input Volt. 230V</p>   | 2.Values                   |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|  |                    | <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>18.210</td><td>18.211</td><td>18.210</td></tr> <tr><td>-10</td><td>18.204</td><td>18.205</td><td>18.204</td></tr> <tr><td>0</td><td>18.200</td><td>18.200</td><td>18.200</td></tr> <tr><td>10</td><td>18.197</td><td>18.197</td><td>18.197</td></tr> <tr><td>25</td><td>18.194</td><td>18.194</td><td>18.194</td></tr> <tr><td>40</td><td>18.188</td><td>18.189</td><td>18.188</td></tr> <tr><td>50</td><td>18.181</td><td>18.181</td><td>18.180</td></tr> <tr><td>60</td><td>18.170</td><td>18.170</td><td>18.170</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 | 18.210 | 18.211 | 18.210 | -10 | 18.204 | 18.205 | 18.204 | 0 | 18.200 | 18.200 | 18.200 | 10 | 18.197 | 18.197 | 18.197 | 25 | 18.194 | 18.194 | 18.194 | 40 | 18.188 | 18.189 | 18.188 | 50 | 18.181 | 18.181 | 18.180 | 60 | 18.170 | 18.170 | 18.170 | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Ambient Temperature [°C]   | Output Voltage [V] |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
|  | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V]         |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| -20  | 18.210             | 18.211  | 18.210                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| -10  | 18.204             | 18.205  | 18.204                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 0  | 18.200             | 18.200  | 18.200                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 10   | 18.197             | 18.197  | 18.197                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 25   | 18.194             | 18.194  | 18.194                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 40   | 18.188             | 18.189  | 18.188                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 50   | 18.181             | 18.181  | 18.180                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| 60   | 18.170             | 18.170  | 18.170                     |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                          |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                          |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                          |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |
| Note: Slanted line shows the range of the rated ambient temperature. |                    |   |                            |  |                          |                    |  |  |                    |                    |                    |     |        |        |        |     |        |        |        |   |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |        |        |        |    |   |   |   |    |   |   |   |    |   |   |   |



|              |                         |                            |
|--------------|-------------------------|----------------------------|
| <b>COSEL</b> |                         |                            |
| Model        | LDA75F-18               |                            |
| Item         | Output Voltage Accuracy | Testing Circuitry Figure A |
| Object       | +18V4.2A                |                            |

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 - 4.2A

\* 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          | 18.208     | ±15                     | ±0.1       |
| Minimum Voltage | 50               | 85               | 4.2        | 18.178     |                         |            |



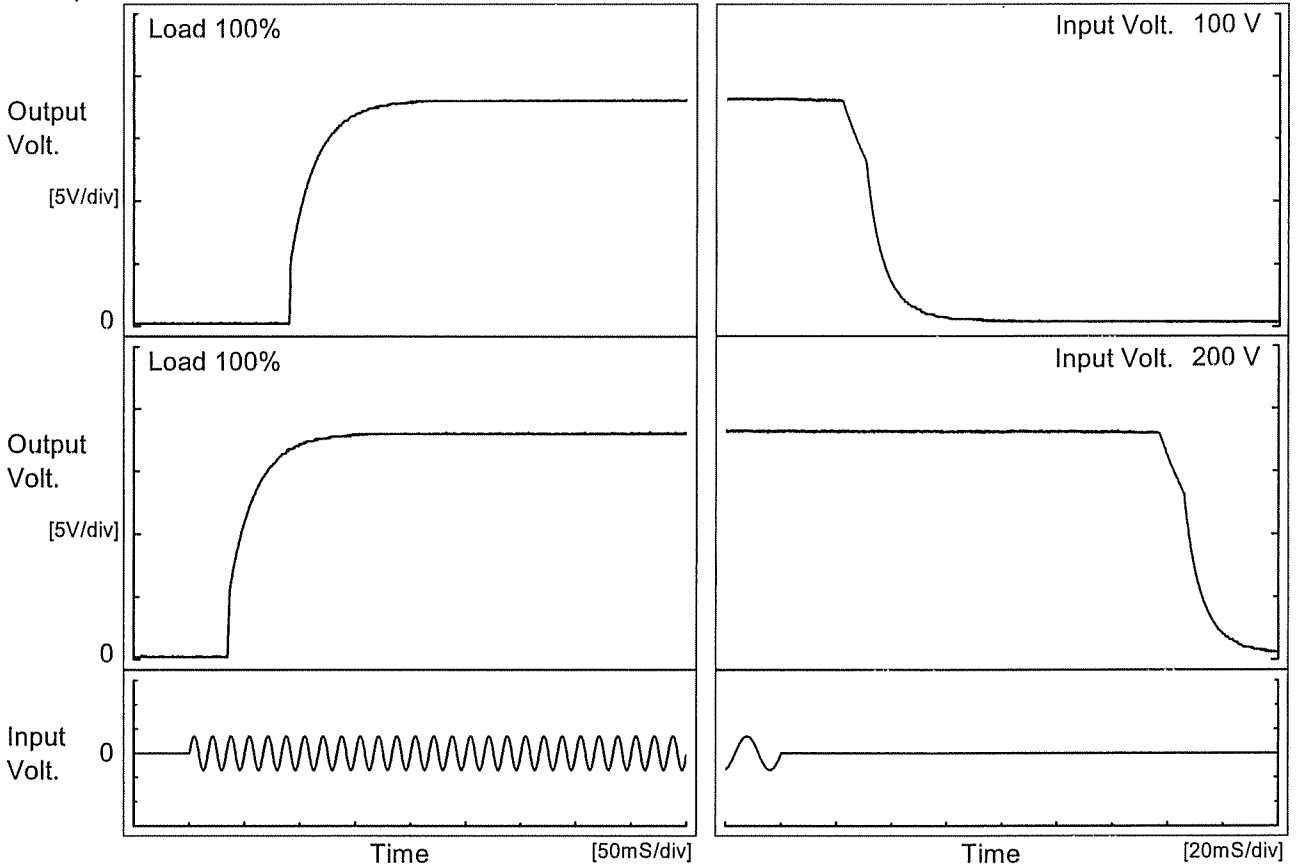
| <b>COSEL</b>  |                    |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
|---|--------------------|--|----------------------|--------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Model   | LDA75F-18          | Temperature 25°C<br>Testing Circuitry Figure A   |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Item  | Time Lapse Drift   |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Object  | +18V4.2A           |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1.Graph   |                    | 2.Values   |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| <p style="text-align: center;">Time [H]</p> <p>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>18.190</td></tr> <tr><td>0.5</td><td>18.183</td></tr> <tr><td>1.0</td><td>18.183</td></tr> <tr><td>2.0</td><td>18.183</td></tr> <tr><td>3.0</td><td>18.183</td></tr> <tr><td>4.0</td><td>18.183</td></tr> <tr><td>5.0</td><td>18.184</td></tr> <tr><td>6.0</td><td>18.184</td></tr> <tr><td>7.0</td><td>18.184</td></tr> <tr><td>8.0</td><td>18.184</td></tr> </tbody> </table> | Time since start [H] | Output Voltage [V] | 0.0 | 18.190 | 0.5 | 18.183 | 1.0 | 18.183 | 2.0 | 18.183 | 3.0 | 18.183 | 4.0 | 18.183 | 5.0 | 18.184 | 6.0 | 18.184 | 7.0 | 18.184 | 8.0 | 18.184 |
| Time since start [H]  | Output Voltage [V] |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.0   | 18.190             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.5   | 18.183             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1.0   | 18.183             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 2.0   | 18.183             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 3.0   | 18.183             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 4.0   | 18.183             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 5.0   | 18.184             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 6.0   | 18.184             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 7.0   | 18.184             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 8.0   | 18.184             |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| * The characteristic of AC200V is equal.  |                    |  |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |





|        |                    |                   |          |
|--------|--------------------|-------------------|----------|
| Model  | LDA75F-18          | Temperature       | 25°C     |
| Item   | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +18V4.2A           |                   |          |

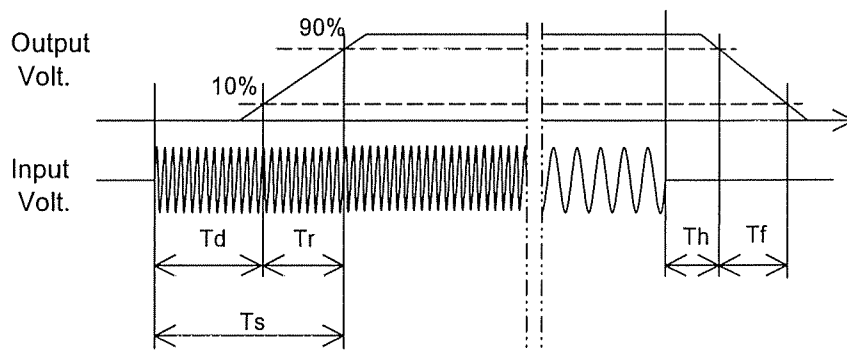
1.Graph



2.Values

| Input Volt. \ Time | Td   | Tr   | Ts    | Th    | Tf   |
|--------------------|------|------|-------|-------|------|
| 100 V              | 90.8 | 48.8 | 139.6 | 24.2  | 20.9 |
| 200 V              | 35.3 | 48.5 | 83.8  | 139.5 | 21.3 |

[mS]





| <p>Model LDA75F-18</p> <p>Item Hold-Up Time</p> <p>Object +18V4.2A</p>  |                   | <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
|---|-------------------|--|-------------------|-------------------|--|----------|-----------|----|----|----|-----|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|---|----|---|---|----|---|---|
| <p>1.Graph</p> <p>---□--- Load 50%</p> <p>—△— 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>26</td> <td>11</td> </tr> <tr> <td>100</td> <td>47</td> <td>22</td> </tr> <tr> <td>120</td> <td>80</td> <td>39</td> </tr> <tr> <td>200</td> <td>273</td> <td>139</td> </tr> <tr> <td>230</td> <td>369</td> <td>189</td> </tr> <tr> <td>264</td> <td>493</td> <td>255</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 | 26 | 11 | 100 | 47 | 22 | 120 | 80 | 39 | 200 | 273 | 139 | 230 | 369 | 189 | 264 | 493 | 255 | -- | - | - | -- | - | - | -- | - | - |
| Input Voltage [V]   | Hold-Up Time [ms] |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
|   | Load 50%          | Load 100%  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 85  | 26                | 11   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 100   | 47                | 22   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 120   | 80                | 39   |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 200   | 273               | 139  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 230   | 369               | 189  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| 264   | 493               | 255  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --  | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --  | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| --  | -                 | -  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |
| <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> |                   |  |                   |                   |  |          |           |    |    |    |     |    |    |     |    |    |     |     |     |     |     |     |     |     |     |    |   |   |    |   |   |    |   |   |



| Model   |                    | LDA75F-18   |                    | Temperature 25°C           |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
|---|--------------------|---|--------------------|----------------------------|-----------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|-----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|------|----|-----|-----|----|---|---|---|----|---|---|---|----|---|---|---|--|--|
| Item  |                    | Instantaneous Interruption Compensation   |                    | Testing Circuitry Figure A |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| Object  |                    | +18V4.2A  |                    |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 1.Graph   |                    | <p>—△— Input Volt. 100V</p> <p>- - □ - - Input Volt. 200V</p> <p>- · ○ · - Input Volt. 230V</p>   |                    | 2.Values                   |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
|   |                    | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.80</td><td>120</td><td>647</td><td>856</td></tr> <tr><td>1.60</td><td>63</td><td>355</td><td>478</td></tr> <tr><td>2.40</td><td>42</td><td>247</td><td>331</td></tr> <tr><td>3.20</td><td>35</td><td>185</td><td>250</td></tr> <tr><td>4.00</td><td>24</td><td>148</td><td>205</td></tr> <tr><td>4.20</td><td>22</td><td>145</td><td>190</td></tr> <tr><td>4.62</td><td>20</td><td>126</td><td>173</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 | - | - | - | 0.80 | 120 | 647 | 856 | 1.60 | 63 | 355 | 478 | 2.40 | 42 | 247 | 331 | 3.20 | 35 | 185 | 250 | 4.00 | 24 | 148 | 205 | 4.20 | 22 | 145 | 190 | 4.62 | 20 | 126 | 173 | -- | - | - | - | -- | - | - | - | -- | - | - | - |  |  |
| Load Current [A]  | Time [ms]          |   |                    |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
|   | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V] |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 0.00  | -                  | -   | -                  |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 0.80  | 120                | 647   | 856                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 1.60  | 63                 | 355   | 478                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 2.40  | 42                 | 247   | 331                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 3.20  | 35                 | 185   | 250                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 4.00  | 24                 | 148   | 205                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 4.20  | 22                 | 145   | 190                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 4.62  | 20                 | 126   | 173                |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --  | -                  | -   | -                  |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --  | -                  | -   | -                  |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --  | -                  | -   | -                  |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| Note: Slanted line shows the range of the rated load current. |                    |   |                    |                            |           |  |  |                    |                    |                    |      |   |   |   |      |     |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |      |    |     |     |    |   |   |   |    |   |   |   |    |   |   |   |  |  |



| <b>COSEL</b>   |  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
|--|--|---|--------------------------|-------------------|--|----------|-----------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|----|---|---|
| Model  | LDA75F-18  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| Item   | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| Object   | +18V4.2A   |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| <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>60</td><td>66</td></tr> <tr><td>-10</td><td>59</td><td>66</td></tr> <tr><td>0</td><td>59</td><td>66</td></tr> <tr><td>10</td><td>59</td><td>66</td></tr> <tr><td>25</td><td>59</td><td>66</td></tr> <tr><td>40</td><td>59</td><td>66</td></tr> <tr><td>50</td><td>59</td><td>66</td></tr> <tr><td>60</td><td>59</td><td>66</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 | 60 | 66 | -10 | 59 | 66 | 0 | 59 | 66 | 10 | 59 | 66 | 25 | 59 | 66 | 40 | 59 | 66 | 50 | 59 | 66 | 60 | 59 | 66 | -- | - | - | -- | - | - | -- | - | - |
| Ambient Temperature [°C]   | Input Voltage [V]                                  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
|  | Load 50%   | Load 100%   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| -20  | 60   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| -10  | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 0  | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 10   | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 25   | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 40   | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 50   | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| 60   | 59   | 66  |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| --   | -  | -   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |
| <p>Note: Slanted line shows the range of the rated ambient temperature.</p>  |  |   |                          |                   |  |          |           |     |    |    |     |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |   |   |    |   |   |



| Model              |                    | LDA75F-18   | Temperature 25°C<br>Testing Circuitry Figure A |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
|--------------------|--------------------|---|--|------------------|--|--------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|--|
| Item               |                    | Overcurrent Protection  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| Object             |                    | +18V4.2A  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 1.Graph            |                    | <p>                 ——— Input Volt. 100V<br/>                 ——— Input Volt. 200V             </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>  | 2.Values                                       |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
|                    |                    | <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>18.0</td><td>5.18</td><td>5.27</td></tr> <tr><td>17.1</td><td>5.19</td><td>5.31</td></tr> <tr><td>16.2</td><td>5.21</td><td>5.35</td></tr> <tr><td>14.4</td><td>5.26</td><td>5.42</td></tr> <tr><td>12.6</td><td>5.32</td><td>5.49</td></tr> <tr><td>10.8</td><td>5.40</td><td>5.55</td></tr> <tr><td>9.0</td><td>5.46</td><td>5.62</td></tr> <tr><td>7.2</td><td>5.54</td><td>5.69</td></tr> <tr><td>5.4</td><td>5.60</td><td>5.76</td></tr> <tr><td>3.6</td><td>5.67</td><td>5.74</td></tr> <tr><td>1.8</td><td>5.66</td><td>5.40</td></tr> <tr><td>0.0</td><td>5.08</td><td>5.04</td></tr> </tbody> </table> | Output Voltage [V]                             | Load Current [A] |  | Input Volt. 100[V] | Input Volt. 200[V] | 18.0 | 5.18 | 5.27 | 17.1 | 5.19 | 5.31 | 16.2 | 5.21 | 5.35 | 14.4 | 5.26 | 5.42 | 12.6 | 5.32 | 5.49 | 10.8 | 5.40 | 5.55 | 9.0 | 5.46 | 5.62 | 7.2 | 5.54 | 5.69 | 5.4 | 5.60 | 5.76 | 3.6 | 5.67 | 5.74 | 1.8 | 5.66 | 5.40 | 0.0 | 5.08 | 5.04 |  |
| Output Voltage [V] | Load Current [A]   |   |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
|                    | Input Volt. 100[V] | Input Volt. 200[V]  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 18.0               | 5.18               | 5.27  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 17.1               | 5.19               | 5.31  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 16.2               | 5.21               | 5.35  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 14.4               | 5.26               | 5.42  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 12.6               | 5.32               | 5.49  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 10.8               | 5.40               | 5.55  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 9.0                | 5.46               | 5.62  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 7.2                | 5.54               | 5.69  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 5.4                | 5.60               | 5.76  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 3.6                | 5.67               | 5.74  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 1.8                | 5.66               | 5.40  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |
| 0.0                | 5.08               | 5.04  |  |                  |  |                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |  |



| Model  |                     | LDA75F-18   | Testing Circuitry Figure A   |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
|--|---------------------|---|--|--------------------------|---------------------|--|--------------------|--------------------|-----|-------|-------|-----|-------|-------|---|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|---|---|----|---|---|----|---|---|
| Item   |                     | Oversvoltage Protection   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| Object   |                     | +18V4.2A  |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 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>22.20</td><td>22.26</td></tr> <tr><td>-10</td><td>22.44</td><td>22.38</td></tr> <tr><td>0</td><td>22.62</td><td>22.68</td></tr> <tr><td>10</td><td>22.85</td><td>22.79</td></tr> <tr><td>25</td><td>23.08</td><td>23.09</td></tr> <tr><td>40</td><td>23.31</td><td>23.31</td></tr> <tr><td>50</td><td>23.49</td><td>23.49</td></tr> <tr><td>60</td><td>23.67</td><td>23.67</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 | 22.20 | 22.26 | -10 | 22.44 | 22.38 | 0 | 22.62 | 22.68 | 10 | 22.85 | 22.79 | 25 | 23.08 | 23.09 | 40 | 23.31 | 23.31 | 50 | 23.49 | 23.49 | 60 | 23.67 | 23.67 | -- | - | - | -- | - | - | -- | - | - |
| Ambient Temperature [°C]   | Operating Point [V] |   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
|  | Input Volt. 100[V]  | Input Volt. 200[V]  |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| -20  | 22.20               | 22.26   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| -10  | 22.44               | 22.38   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 0  | 22.62               | 22.68   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 10   | 22.85               | 22.79   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 25   | 23.08               | 23.09   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 40   | 23.31               | 23.31   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 50   | 23.49               | 23.49   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| 60   | 23.67               | 23.67   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| --   | -                   | -   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |
| Note: Slanted line shows the range of the rated ambient temperature. |                     |   |  |                          |                     |  |                    |                    |     |       |       |     |       |       |   |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |       |       |    |   |   |    |   |   |    |   |   |

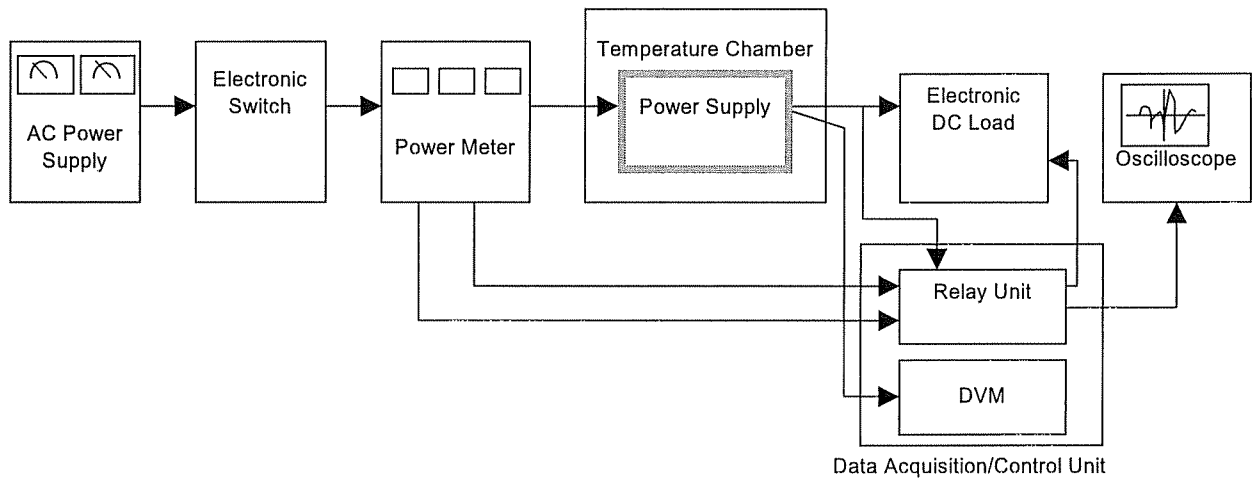


Figure A

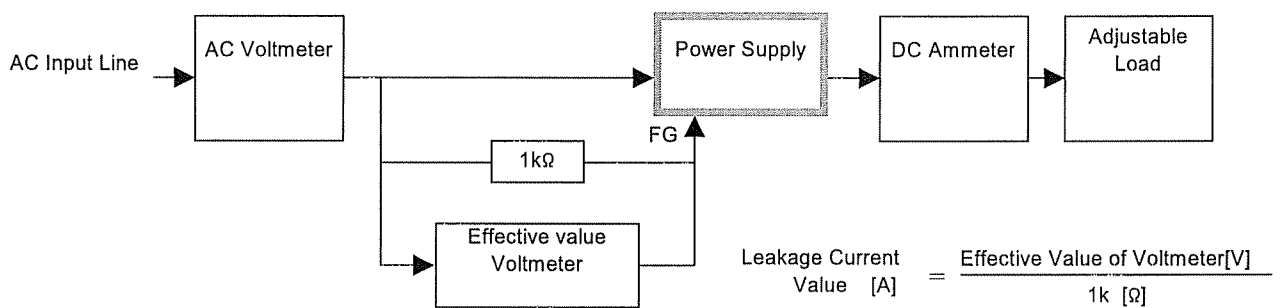


Figure B ( DEN-AN )

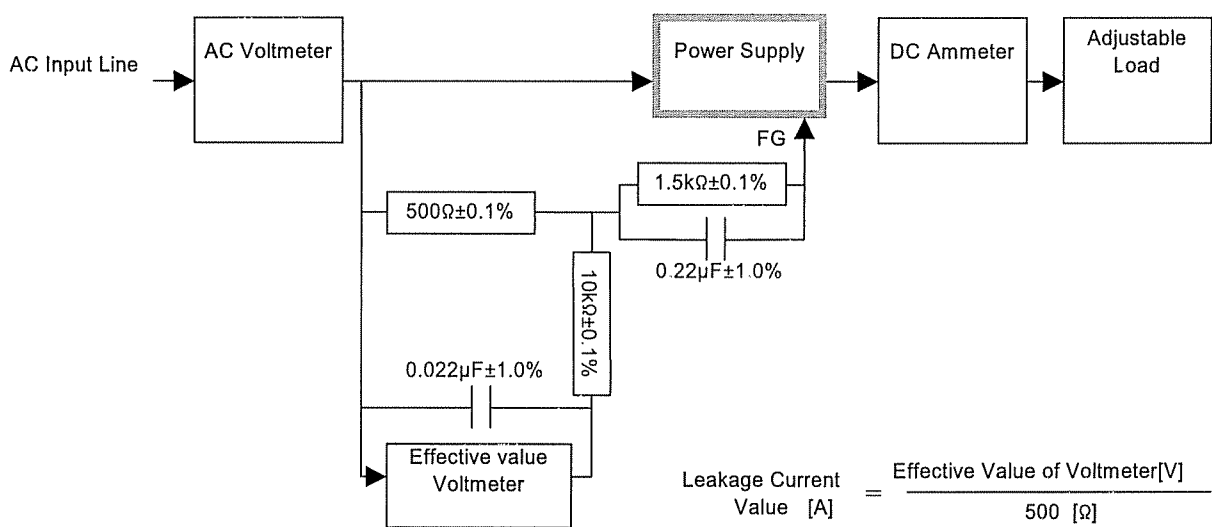


Figure B ( IEC60950 )