

TEST DATA OF LCA100S-3

Regulated DC Power Supply
Aug.23. 2004

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Kenji Shiho Design Manager

Prepared by : Saori Ueda
Saori Ueda Design Engineer

COSEL CO.,LTD.

CONTENTS

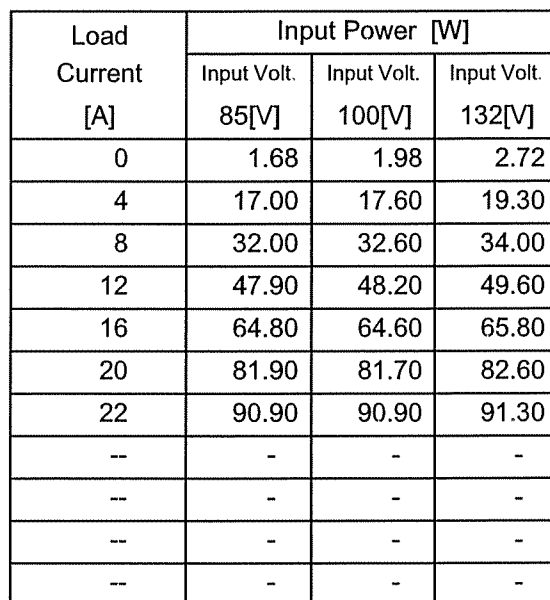
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| | |
|-------------------|----------|
| Temperature | 25°C |
| Testing Circuitry | Figure A |

2.Values

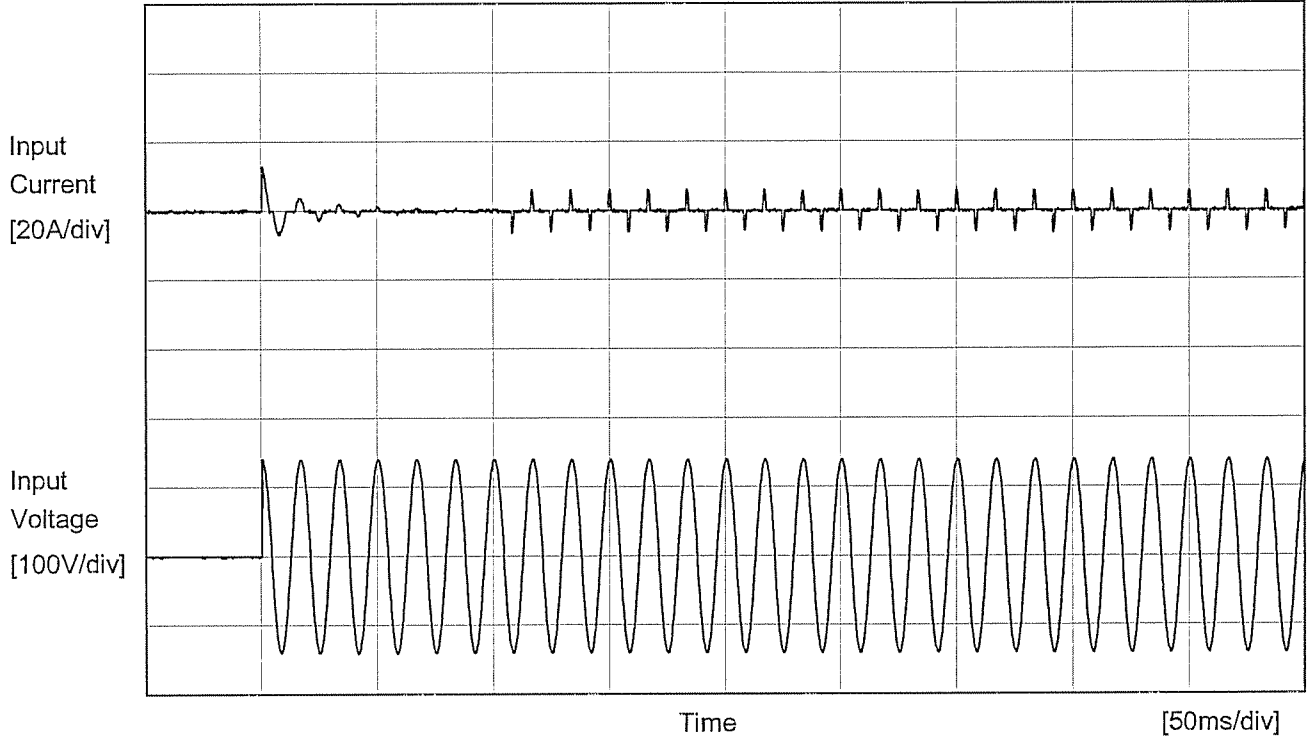


Note: Slanted line shows the range of the rated load current.

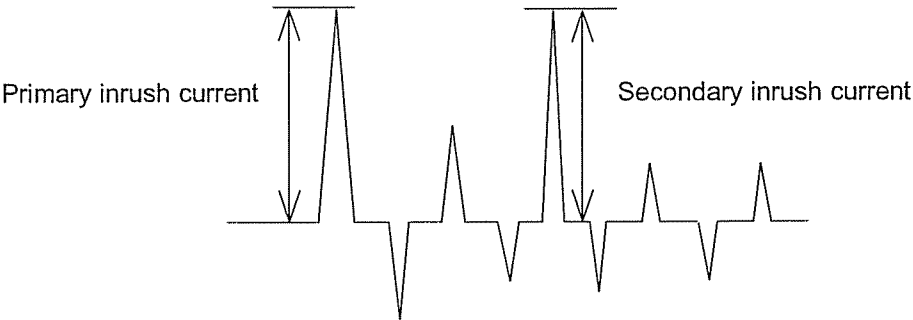
| Model | | LCA100S-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-------------------------------|----------------|--|----------|-----------|----|------|------|----|------|------|----|------|------|----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|--|--|
| Item | | Efficiency (by Input Voltage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div></div><div>Load 50%</div><div>Load 100%</div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>75</td><td>75.9</td><td>73.0</td></tr><tr><td>80</td><td>75.9</td><td>73.3</td></tr><tr><td>85</td><td>75.6</td><td>73.3</td></tr><tr><td>90</td><td>75.2</td><td>73.3</td></tr><tr><td>100</td><td>74.8</td><td>73.3</td></tr><tr><td>110</td><td>74.1</td><td>73.6</td></tr><tr><td>120</td><td>73.2</td><td>73.4</td></tr><tr><td>132</td><td>72.2</td><td>73.0</td></tr><tr><td>140</td><td>71.6</td><td>72.9</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | Input Voltage [V] | Efficiency [%] | | Load 50% | Load 100% | 75 | 75.9 | 73.0 | 80 | 75.9 | 73.3 | 85 | 75.6 | 73.3 | 90 | 75.2 | 73.3 | 100 | 74.8 | 73.3 | 110 | 74.1 | 73.6 | 120 | 73.2 | 73.4 | 132 | 72.2 | 73.0 | 140 | 71.6 | 72.9 | | |
| Input Voltage [V] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 75.9 | 73.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 75.9 | 73.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 75.6 | 73.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 75.2 | 73.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 74.8 | 73.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 74.1 | 73.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 73.2 | 73.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | 72.2 | 73.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 71.6 | 72.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



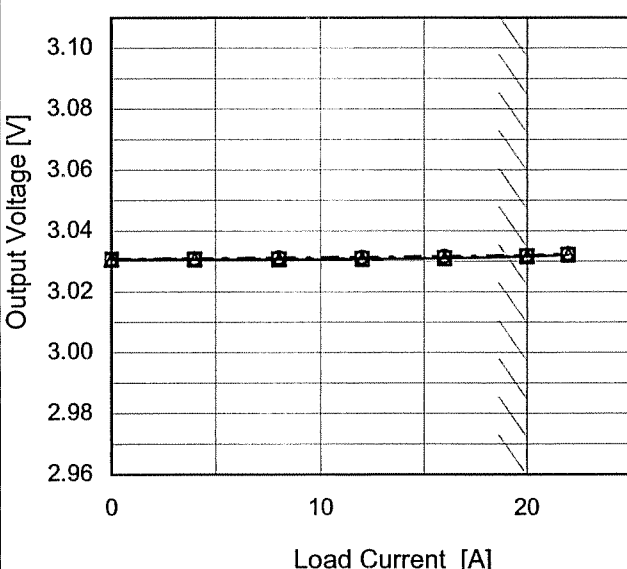
| | | | |
|--------|--|----------------|--|
| Model | | LCA100S-3 | |
| Item | | Inrush Current | Temperature 25°C Testing Circuitry Figure A |
| Object | | | |



| | |
|--------------------------|--------|
| Input Voltage | 100 V |
| Frequency | 60 Hz |
| Load | 100 % |
| Primary inrush current | 12.7 A |
| Secondary inrush current | 6.5 A |



| Model | LCA100S-3 | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|--|-----------------------------|------------------------------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|--|--|
| Item | Line Regulation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>75</td><td>3.030</td><td>3.031</td></tr><tr><td>80</td><td>3.030</td><td>3.031</td></tr><tr><td>85</td><td>3.030</td><td>3.031</td></tr><tr><td>90</td><td>3.031</td><td>3.031</td></tr><tr><td>100</td><td>3.031</td><td>3.032</td></tr><tr><td>110</td><td>3.031</td><td>3.032</td></tr><tr><td>120</td><td>3.031</td><td>3.032</td></tr><tr><td>132</td><td>3.031</td><td>3.032</td></tr><tr><td>140</td><td>3.031</td><td>3.032</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | 75 | 3.030 | 3.031 | 80 | 3.030 | 3.031 | 85 | 3.030 | 3.031 | 90 | 3.031 | 3.031 | 100 | 3.031 | 3.032 | 110 | 3.031 | 3.032 | 120 | 3.031 | 3.032 | 132 | 3.031 | 3.032 | 140 | 3.031 | 3.032 | | |
| Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 3.030 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 3.030 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 3.030 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 3.031 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Model | LCA100S-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | Load Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div>  | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0</td><td>3.031</td><td>3.031</td><td>3.031</td></tr><tr><td>4</td><td>3.031</td><td>3.031</td><td>3.031</td></tr><tr><td>8</td><td>3.031</td><td>3.031</td><td>3.031</td></tr><tr><td>12</td><td>3.031</td><td>3.031</td><td>3.031</td></tr><tr><td>16</td><td>3.031</td><td>3.031</td><td>3.032</td></tr><tr><td>20</td><td>3.032</td><td>3.032</td><td>3.032</td></tr><tr><td>22</td><td>3.032</td><td>3.032</td><td>3.032</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Output Voltage [V] | | | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] | 0 | 3.031 | 3.031 | 3.031 | 4 | 3.031 | 3.031 | 3.031 | 8 | 3.031 | 3.031 | 3.031 | 12 | 3.031 | 3.031 | 3.031 | 16 | 3.031 | 3.031 | 3.032 | 20 | 3.032 | 3.032 | 3.032 | 22 | 3.032 | 3.032 | 3.032 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3.031 | 3.031 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3.031 | 3.031 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 3.031 | 3.031 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 3.031 | 3.031 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 3.031 | 3.031 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 3.032 | 3.032 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 3.032 | 3.032 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------|---------------------------------|-------------------|----------|
| Model | LCA100S-3 | Temperature | 25°C |
| Item | Dynamic Load Response 動的負荷変動 | Testing Circuitry | Figure A |
| Object | +3V20A | | |

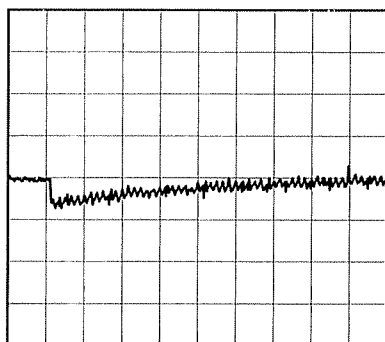
Input Volt. 100 V
Cycle 1000 ms

Load Current

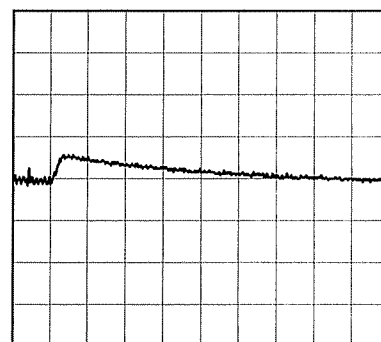
Min. Load (0A) ←→

Load 100% (20A)

100 mV/div



10 ms/div

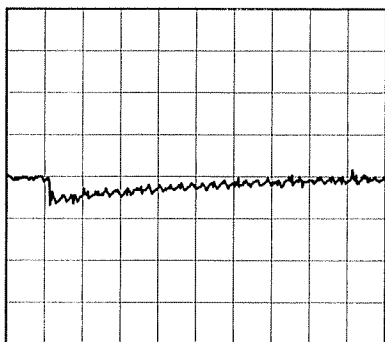


10 ms/div

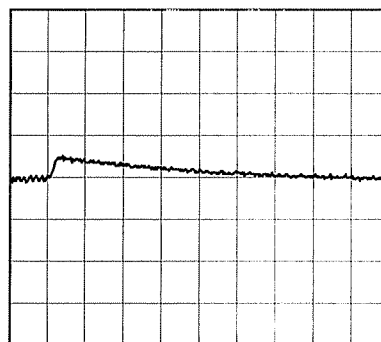
Min. Load (0A) ←→

Load 50% (10A)

100 mV/div



10 ms/div



10 ms/div

| Model | LCA100S-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------------|--|----------|------------------|---------------------|--|--------------------|---------------------|---|----|----|---|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | Ripple Voltage (by Load Current) | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +3V20A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△— Input Volt. 85V</div><div>- -○- - Input Volt. 132V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div> <div><p>Measured by 20 MHz Oscilloscope.</p><p>Ripple Voltage is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0</td><td>10</td><td>15</td></tr><tr><td>4</td><td>20</td><td>20</td></tr><tr><td>8</td><td>20</td><td>25</td></tr><tr><td>12</td><td>25</td><td>25</td></tr><tr><td>16</td><td>25</td><td>25</td></tr><tr><td>20</td><td>30</td><td>30</td></tr><tr><td>22</td><td>40</td><td>40</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></table> | | Load Current [A] | Ripple Voltage [mV] | | Input Volt. 85 [V] | Input Volt. 132 [V] | 0 | 10 | 15 | 4 | 20 | 20 | 8 | 20 | 25 | 12 | 25 | 25 | 16 | 25 | 25 | 20 | 30 | 30 | 22 | 40 | 40 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 85 [V] | Input Volt. 132 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 10 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 25 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 25 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 40 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div><div>Ripple [mVp-p]</div><div>T1</div><div>T2</div></div> <div>Fig. Complex Ripple Wave Form</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | | LCA100S-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | | Ripple-Noise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>---○---</div><div>Input Volt. 132V</div></div></div> <p>Measured by 20 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0</td><td>15</td><td>25</td></tr><tr><td>4</td><td>35</td><td>55</td></tr><tr><td>8</td><td>45</td><td>60</td></tr><tr><td>12</td><td>50</td><td>65</td></tr><tr><td>16</td><td>50</td><td>70</td></tr><tr><td>20</td><td>60</td><td>70</td></tr><tr><td>22</td><td>70</td><td>70</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></table> | | Load Current [A] | Ripple-Noise [mV] | | Input Volt. 85 [V] | Input Volt. 132 [V] | 0 | 15 | 25 | 4 | 35 | 55 | 8 | 45 | 60 | 12 | 50 | 65 | 16 | 50 | 70 | 20 | 60 | 70 | 22 | 70 | 70 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple-Noise [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 85 [V] | Input Volt. 132 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 15 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 35 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 45 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 50 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 50 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 60 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 70 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div> <p>Fig. Complex Ripple Wave Form</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | | LCA100S-3 | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-----------------------------------|-------------------------------|---------------|----------------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|--|-----------------------------|------------------------|--|----------|-----------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|
| Item | | Ripple Voltage (by Ambient Temp.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div>Load 50%</div><div><div></div><div></div></div><div>Load 100%</div></div> <div><table border="1"><caption>Ripple Voltage Data (from graph)</caption><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [mV]</th><th>Load 100% [mV]</th></tr></thead><tbody><tr><td>-20</td><td>55</td><td>65</td></tr><tr><td>-10</td><td>50</td><td>55</td></tr><tr><td>0</td><td>50</td><td>55</td></tr><tr><td>10</td><td>30</td><td>35</td></tr><tr><td>25</td><td>25</td><td>35</td></tr><tr><td>30</td><td>25</td><td>35</td></tr><tr><td>40</td><td>25</td><td>30</td></tr><tr><td>50</td><td>20</td><td>30</td></tr><tr><td>60</td><td>20</td><td>25</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table></div> <div>Input Volt. 100V</div> | | | Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | -20 | 55 | 65 | -10 | 50 | 55 | 0 | 50 | 55 | 10 | 30 | 35 | 25 | 25 | 35 | 30 | 25 | 35 | 40 | 25 | 30 | 50 | 20 | 30 | 60 | 20 | 25 | -- | - | - | -- | - | - | <table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>55</td><td>65</td></tr><tr><td>-10</td><td>50</td><td>55</td></tr><tr><td>0</td><td>50</td><td>55</td></tr><tr><td>10</td><td>30</td><td>35</td></tr><tr><td>25</td><td>25</td><td>35</td></tr><tr><td>30</td><td>25</td><td>35</td></tr><tr><td>40</td><td>25</td><td>30</td></tr><tr><td>50</td><td>20</td><td>30</td></tr><tr><td>60</td><td>20</td><td>25</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | Ambient Temperature [°C] | Ripple Voltage [mV] | | Load 50% | Load 100% | -20 | 55 | 65 | -10 | 50 | 55 | 0 | 50 | 55 | 10 | 30 | 35 | 25 | 25 | 35 | 30 | 25 | 35 | 40 | 25 | 30 | 50 | 20 | 30 | 60 | 20 | 25 | -- | - | - | -- | - | - |
| Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 55 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -10 | 50 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 50 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 25 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 25 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 25 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 20 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature [°C] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 55 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -10 | 50 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 50 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 25 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 25 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 25 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 20 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BC-0959



| | | |
|--------|-------------------------|----------------------------|
| | | Testing Circuitry Figure A |
| Model | LCA100S-3 | |
| Item | Output Voltage Accuracy | |
| Object | +3V20A | |

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 - 132V

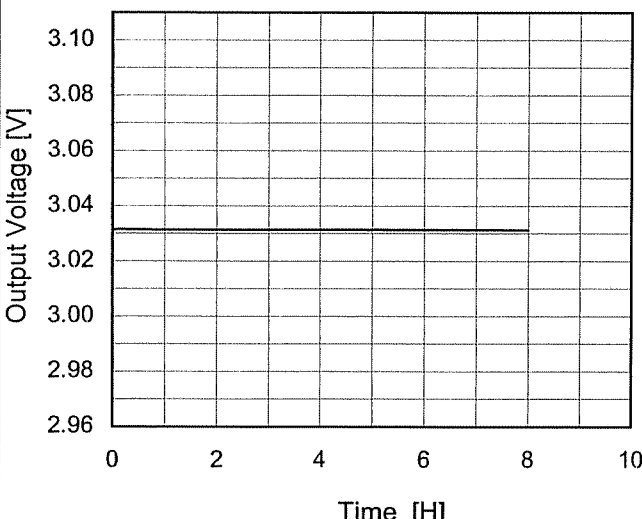
Load Current : 0 - 20A

* 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 | 25 | 132 | 20 | 3.032 | ±1 | ±0.1 |
| Minimum Voltage | -10 | 85 | 0 | 3.030 | | |

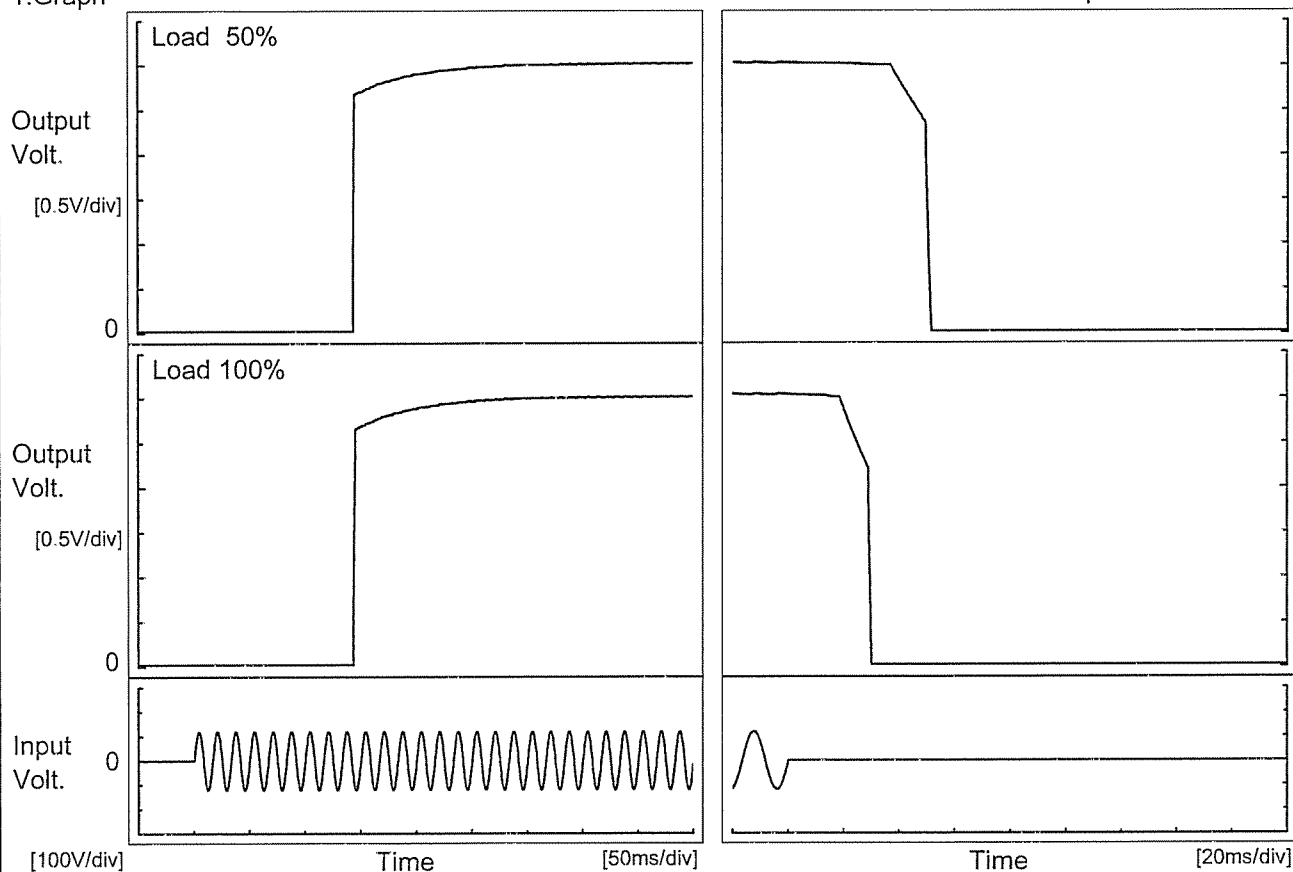
| Model | LCA100S-3 | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|--|----------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Item | Time Lapse Drift | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V Load 100%</p></div> | | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.031</td></tr><tr><td>0.5</td><td>3.032</td></tr><tr><td>1.0</td><td>3.031</td></tr><tr><td>2.0</td><td>3.031</td></tr><tr><td>3.0</td><td>3.031</td></tr><tr><td>4.0</td><td>3.031</td></tr><tr><td>5.0</td><td>3.031</td></tr><tr><td>6.0</td><td>3.031</td></tr><tr><td>7.0</td><td>3.031</td></tr><tr><td>8.0</td><td>3.031</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | 3.031 | 0.5 | 3.032 | 1.0 | 3.031 | 2.0 | 3.031 | 3.0 | 3.031 | 4.0 | 3.031 | 5.0 | 3.031 | 6.0 | 3.031 | 7.0 | 3.031 | 8.0 | 3.031 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 3.032 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 3.031 | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|--------------------|-------------------|----------|
| Model | LCA100S-3 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +3V20A | | |

1. Graph

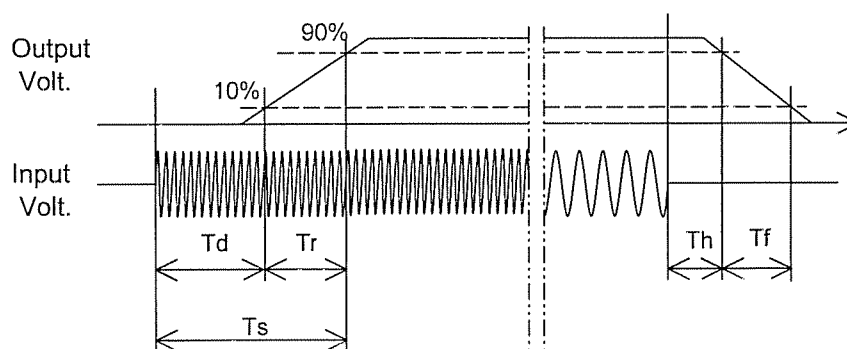
Input Volt. 100 V



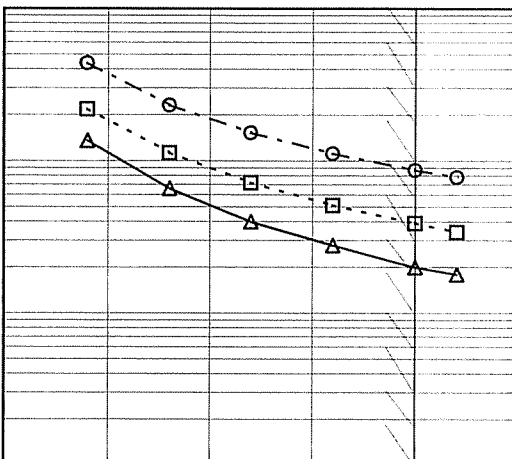
2. Values

[ms]

| Load \ Time | Td | Tr | Ts | Th | Tf |
|-------------|-------|-----|-------|------|-----|
| 50 % | 146.5 | 6.8 | 153.3 | 42.0 | 9.1 |
| 100 % | 146.5 | 8.0 | 154.5 | 22.0 | 8.0 |



| Model | | LCA100S-3 | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|----------------------------------|-------------------|--|----------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|-----|--|--|
| Item | | Hold-Up Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>Load 50%</div><div>Load 100%</div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>75</td><td>29</td><td>10</td></tr><tr><td>80</td><td>39</td><td>15</td></tr><tr><td>85</td><td>50</td><td>20</td></tr><tr><td>90</td><td>61</td><td>26</td></tr><tr><td>100</td><td>86</td><td>38</td></tr><tr><td>110</td><td>114</td><td>52</td></tr><tr><td>120</td><td>144</td><td>67</td></tr><tr><td>132</td><td>184</td><td>87</td></tr><tr><td>140</td><td>213</td><td>101</td></tr></tbody></table> | | | Input Voltage [V] | Hold-Up Time [ms] | | Load 50% | Load 100% | 75 | 29 | 10 | 80 | 39 | 15 | 85 | 50 | 20 | 90 | 61 | 26 | 100 | 86 | 38 | 110 | 114 | 52 | 120 | 144 | 67 | 132 | 184 | 87 | 140 | 213 | 101 | | |
| Input Voltage [V] | Hold-Up Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 29 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 39 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 50 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 61 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 86 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 114 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 144 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | 184 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 213 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | LCA100S-3 | Temperature25°C Testing CircuitryFigure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--------------------|------------------|-----------|--|--|-------------------|--------------------|--------------------|---|---|---|---|---|-----|-----|-----|---|----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|----|----|----|----|----|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Instantaneous Interruption Compensation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt. 85V</div><div>85V</div></div><div><div>---□---</div><div>Input Volt. 100V</div><div>100V</div></div><div><div>-○-</div><div>Input Volt. 132V</div><div>132V</div></div></div> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>10</div><div>20</div></div><div><div>Load Current [A]</div></div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4</td><td>136</td><td>219</td><td>437</td></tr><tr><td>8</td><td>66</td><td>113</td><td>232</td></tr><tr><td>12</td><td>40</td><td>72</td><td>153</td></tr><tr><td>16</td><td>28</td><td>51</td><td>112</td></tr><tr><td>20</td><td>20</td><td>39</td><td>87</td></tr><tr><td>22</td><td>18</td><td>34</td><td>78</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Time [ms] | | | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] | 0 | - | - | - | 4 | 136 | 219 | 437 | 8 | 66 | 113 | 232 | 12 | 40 | 72 | 153 | 16 | 28 | 51 | 112 | 20 | 20 | 39 | 87 | 22 | 18 | 34 | 78 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | 66 | 113 | 232 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 40 | 72 | 153 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | | LCA100S-3 | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|---|-------------------------------|--------------|---------------|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|---|---|----|---|---|--|
| Item | | Minimum Input Voltage for Regulated Output Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +3V20A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [V]</th><th>Load 100% [V]</th></tr></thead><tbody><tr><td>-20</td><td>60</td><td>66</td></tr><tr><td>-10</td><td>59</td><td>65</td></tr><tr><td>0</td><td>59</td><td>65</td></tr><tr><td>10</td><td>59</td><td>65</td></tr><tr><td>25</td><td>58</td><td>65</td></tr><tr><td>40</td><td>58</td><td>65</td></tr><tr><td>50</td><td>58</td><td>65</td></tr><tr><td>60</td><td>58</td><td>65</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> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | | Ambient Temperature [°C] | Load 50% [V] | Load 100% [V] | -20 | 60 | 66 | -10 | 59 | 65 | 0 | 59 | 65 | 10 | 59 | 65 | 25 | 58 | 65 | 40 | 58 | 65 | 50 | 58 | 65 | 60 | 58 | 65 | -- | - | - | -- | - | - | -- | - | - | |
| Ambient Temperature [°C] | Load 50% [V] | Load 100% [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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BC-0959

1. Graph

—△— Input Volt. 85V
---□--- Input Volt. 100V
-·-○-·- Input Volt. 132V

| Ambient Temperature [°C] | Operating Point [V] (85V) | Operating Point [V] (100V) | Operating Point [V] (132V) |
|--------------------------|---------------------------|----------------------------|----------------------------|
| -20 | 4.6 | 4.8 | 4.7 |
| 0 | 4.6 | 4.7 | 4.7 |
| 10 | 4.6 | 4.7 | 4.7 |
| 25 | 4.5 | 4.6 | 4.6 |
| 40 | 4.5 | 4.6 | 4.6 |
| 50 | 4.5 | 4.6 | 4.6 |
| 60 | 4.4 | 4.5 | 4.5 |

Operating Point [V]

Ambient Temperature [°C]

Load 0%

Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Operating Point [V] | | |
|--------------------------------|----------------------|-----------------------|-----------------------|
| | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] |
| -20 | 4.70 | 4.82 | 4.82 |
| -10 | 4.70 | 4.70 | 4.70 |
| 0 | 4.70 | 4.70 | 4.70 |
| 10 | 4.70 | 4.70 | 4.70 |
| 25 | 4.64 | 4.70 | 4.70 |
| 40 | 4.64 | 4.64 | 4.64 |
| 50 | 4.63 | 4.64 | 4.64 |
| 60 | 4.57 | 4.63 | 4.63 |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |

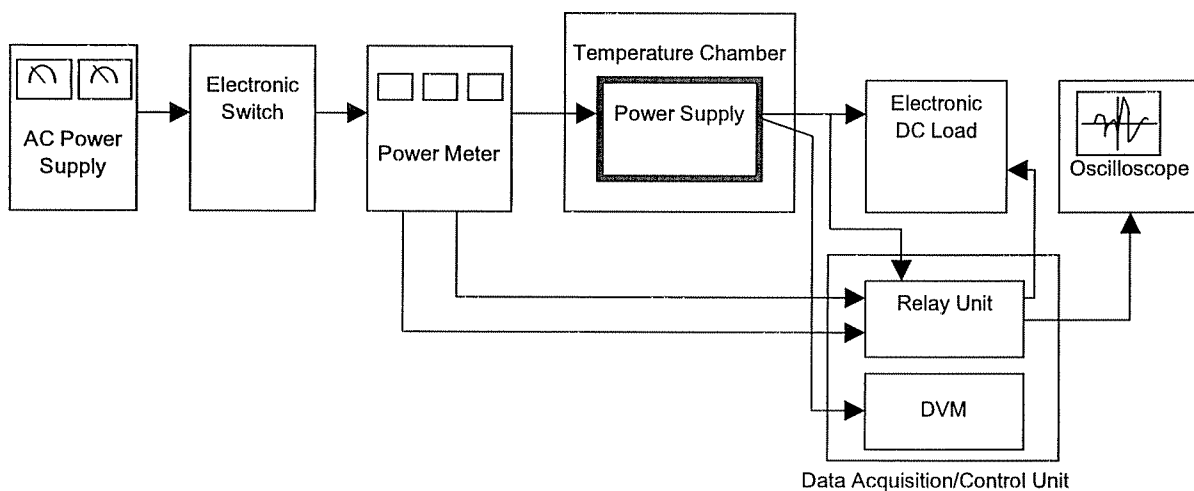


Figure A

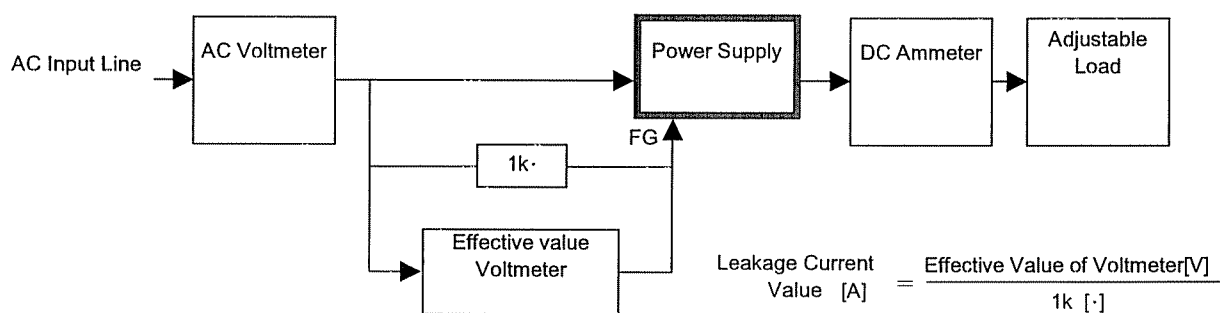


Figure B (DEN-AN)

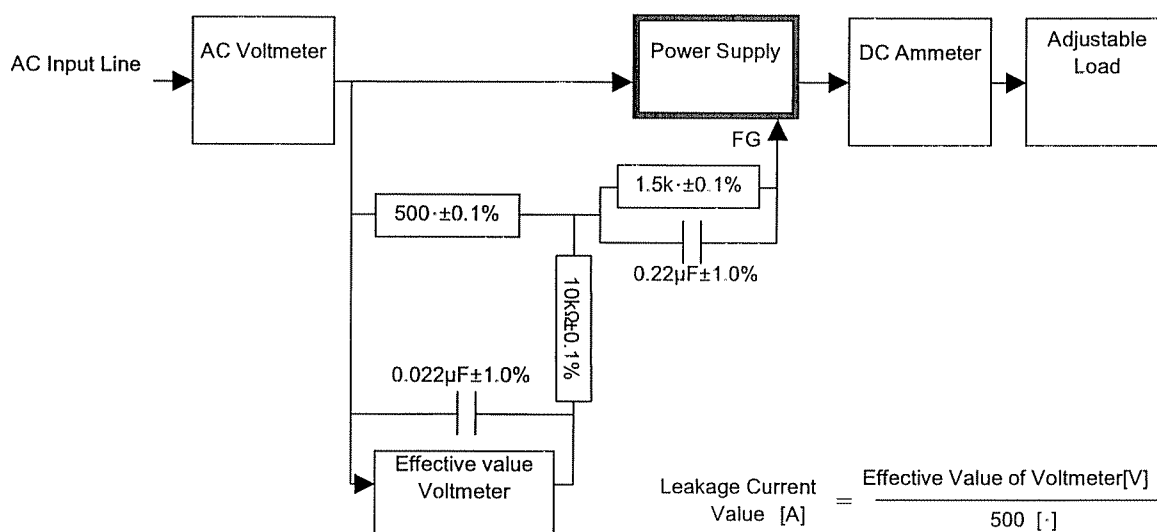


Figure B (IEC60950)