



# TEST DATA OF LCA75S-24-H (100V INPUT)

Regulated DC Power Supply

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Design Manager

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**コーセル株式会社**

**COSEL CO., LTD.**



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| Model   |                    | LCA75S-24-H            |  | Temperature<br>Testing Circuitry   | 25℃<br>Figure A |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
|---|--------------------|------------------------|--|--|-----------------|-------------------|--------------------|--|----------|-----------|----|--------|--------|----|--------|--------|----|--------|--------|----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|
| Item  |                    | Line Regulation 静的入力変動 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| Object  |                    | +24.0V3.2A             |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 1. Graph  |                    |                        |  | 2. Values  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| <div><div><div>□</div><div>-----</div><div>Load 50%</div></div><div><div>△</div><div>-----</div><div>Load 100%</div></div></div> <div><div>Output Voltage [V]</div><div><div>23.950</div><div>23.930</div><div>23.910</div><div>23.890</div><div>23.870</div><div>23.850</div><div>23.830</div><div>0</div></div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div><div><div>Input Voltage [V]</div></div></div> <div><div>Note: Slanted line shows the range of the rated input voltage.</div><div>(注)斜線は定格入力電圧範囲を示す。</div></div> |                    |                        |  | <table><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><tr><td>75</td><td>23.879</td><td>23.878</td></tr><tr><td>80</td><td>23.879</td><td>23.878</td></tr><tr><td>85</td><td>23.879</td><td>23.879</td></tr><tr><td>90</td><td>23.879</td><td>23.879</td></tr><tr><td>100</td><td>23.879</td><td>23.879</td></tr><tr><td>110</td><td>23.879</td><td>23.879</td></tr><tr><td>120</td><td>23.879</td><td>23.879</td></tr><tr><td>132</td><td>23.879</td><td>23.879</td></tr><tr><td>140</td><td>23.879</td><td>23.878</td></tr></table> |                 | Input Voltage [V] | Output Voltage [V] |  | Load 50% | Load 100% | 75 | 23.879 | 23.878 | 80 | 23.879 | 23.878 | 85 | 23.879 | 23.879 | 90 | 23.879 | 23.879 | 100 | 23.879 | 23.879 | 110 | 23.879 | 23.879 | 120 | 23.879 | 23.879 | 132 | 23.879 | 23.879 | 140 | 23.879 | 23.878 |
| Input Voltage [V]   | Output Voltage [V] |                        |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
|   | Load 50%           | Load 100%              |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 75  | 23.879             | 23.878                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 80  | 23.879             | 23.878                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 85  | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 90  | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 100   | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 110   | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 120   | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 132   | 23.879             | 23.879                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |
| 140   | 23.879             | 23.878                 |  |  |                 |                   |                    |  |          |           |    |        |        |    |        |        |    |        |        |    |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |

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Model LCA75S-24-H

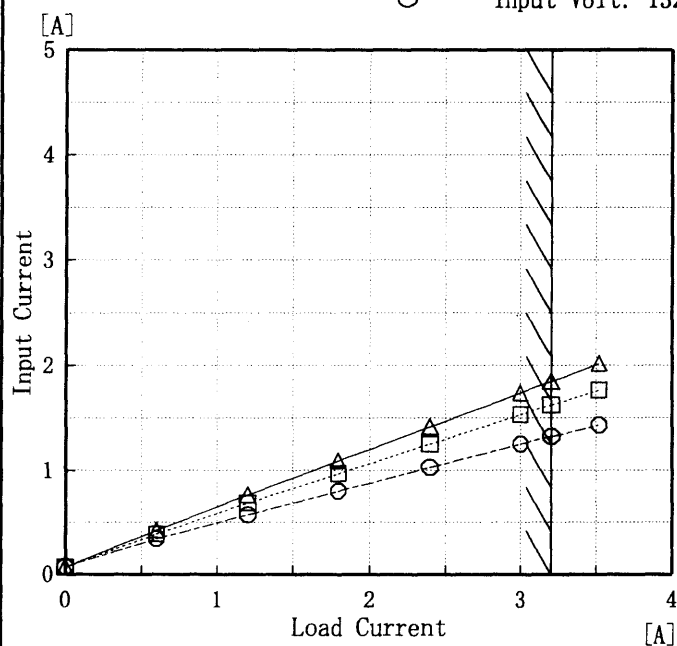
Item Input Current (by Load Current)  
入力電流 (負荷特性)

Output

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph

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



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

(注) 斜線は定格負荷電流範囲を示す。

## 2. Values

| Load Current<br>[A] | Input Current [A]    |                       |                       |
|---------------------|----------------------|-----------------------|-----------------------|
|                     | Input Volt.<br>85[V] | Input Volt.<br>100[V] | Input Volt.<br>132[V] |
| 0.00                | 0.065                | 0.066                 | 0.071                 |
| 0.60                | 0.421                | 0.384                 | 0.337                 |
| 1.20                | 0.763                | 0.683                 | 0.574                 |
| 1.80                | 1.088                | 0.967                 | 0.800                 |
| 2.40                | 1.414                | 1.251                 | 1.025                 |
| 3.00                | 1.737                | 1.531                 | 1.248                 |
| 3.20                | 1.845                | 1.624                 | 1.323                 |
| 3.52                | 2.017                | 1.763                 | 1.429                 |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |

# COSEL

|        |  |  |  |
|--------|--|--|--|
| Model  |  | LCA75S-24-H                                  |  |
| Item   |  | Input Power (by Load Current)<br>入力電力 (負荷特性) |  |
| Output |  |  |  |

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Input Power [W]

200

150

100

50

0

Load Current [A]

0

1

2

3

4

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

(注)斜線は定格負荷電流範囲を示す。

|                  |                    |                     |                     |
|------------------|--------------------|---------------------|---------------------|
| Load Current [A] | Input Power [W]    |                     |                     |
|                  | Input Volt. 85 [V] | Input Volt. 100 [V] | Input Volt. 132 [V] |
| 0.00             | 2.20               | 2.59                | 3.49                |
| 0.60             | 18.98              | 19.63               | 21.38               |
| 1.20             | 36.10              | 36.65               | 38.15               |
| 1.80             | 52.73              | 53.10               | 54.40               |
| 2.40             | 69.83              | 69.95               | 70.90               |
| 3.00             | 87.20              | 87.00               | 87.60               |
| 3.20             | 93.10              | 92.80               | 93.30               |
| 3.52             | 102.70             | 102.30              | 102.50              |
| —                | —                  | —                   | —                   |
| —                | —                  | —                   | —                   |
| —                | —                  | —                   | —                   |
| —                | —                  | —                   | —                   |

2. Values

# COSEL

| Model   |                | LCA75S-24-H                                  |  | Temperature<br>Testing Circuitry   | 25℃<br>Figure A |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
|---|----------------|--|--|--|-----------------|----------------------|----------------|--|----------|-----------|----|------|------|----|------|------|----|------|------|----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|
| Item  |                | Efficiency (by Input Voltage)<br>効率 (入力電圧特性) |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| Object  |                |  |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 1. Graph  |                |  |  | 2. Values  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| <div><div>□</div>Load 50%</div> <div><div>△</div>Load 100%</div> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p> |                |  |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
|   |                |  |  | <table><tr><th rowspan="2">Input Voltage<br/>[V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>81.6</td><td>81.7</td></tr><tr><td>80</td><td>81.5</td><td>82.2</td></tr><tr><td>85</td><td>81.4</td><td>82.4</td></tr><tr><td>90</td><td>81.2</td><td>82.5</td></tr><tr><td>100</td><td>80.4</td><td>82.8</td></tr><tr><td>110</td><td>80.1</td><td>82.8</td></tr><tr><td>120</td><td>79.2</td><td>82.6</td></tr><tr><td>132</td><td>78.4</td><td>82.3</td></tr><tr><td>140</td><td>77.5</td><td>82.1</td></tr></table> |                 | Input Voltage<br>[V] | Efficiency [%] |  | Load 50% | Load 100% | 75 | 81.6 | 81.7 | 80 | 81.5 | 82.2 | 85 | 81.4 | 82.4 | 90 | 81.2 | 82.5 | 100 | 80.4 | 82.8 | 110 | 80.1 | 82.8 | 120 | 79.2 | 82.6 | 132 | 78.4 | 82.3 | 140 | 77.5 | 82.1 |
| Input Voltage<br>[V]  | Efficiency [%] |  |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
|   | Load 50%       | Load 100%                                    |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 75  | 81.6           | 81.7   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 80  | 81.5           | 82.2   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 85  | 81.4           | 82.4   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 90  | 81.2           | 82.5   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 100   | 80.4           | 82.8   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 110   | 80.1           | 82.8   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 120   | 79.2           | 82.6   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 132   | 78.4           | 82.3   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |
| 140   | 77.5           | 82.1   |  |  |                 |                      |                |  |          |           |    |      |      |    |      |      |    |      |      |    |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |

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Model

LCA75S-24-H

Item

Efficiency (by Load Current)  
効率 (負荷特性)

Output

—

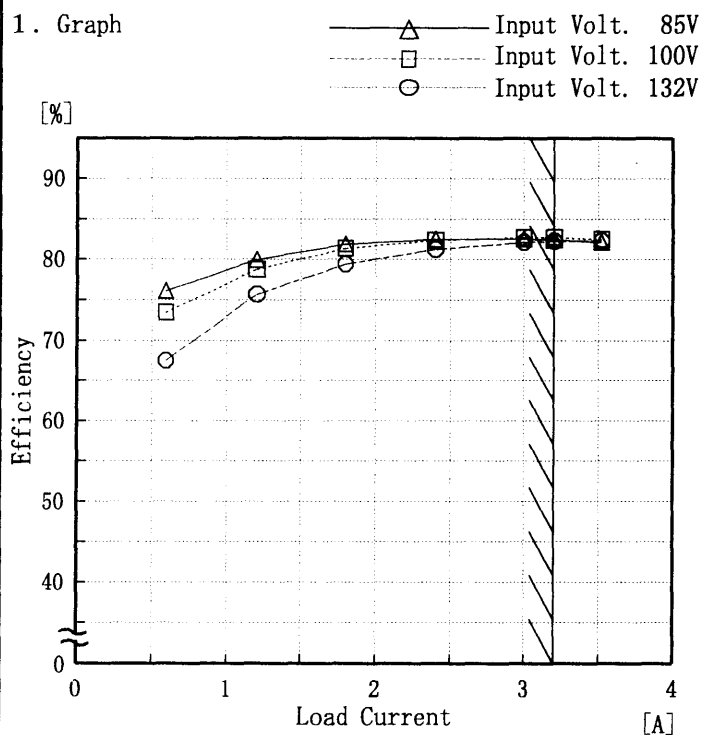
Temperature

25°C

Testing Circuitry

Figure A

## 1. Graph



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

(注) 斜線は定格負荷電流範囲を示す。

## 2. Values

| Load Current<br>[A] | Efficiency [%]       |                       |                       |
|---------------------|----------------------|-----------------------|-----------------------|
|                     | Input Volt.<br>85[V] | Input Volt.<br>100[V] | Input Volt.<br>132[V] |
| 0.60                | 76.1                 | 73.5                  | 67.5                  |
| 1.20                | 80.0                 | 78.8                  | 75.7                  |
| 1.80                | 81.9                 | 81.4                  | 79.4                  |
| 2.40                | 82.5                 | 82.4                  | 81.3                  |
| 3.00                | 82.5                 | 82.7                  | 82.2                  |
| 3.20                | 82.5                 | 82.7                  | 82.3                  |
| 3.52                | 82.2                 | 82.5                  | 82.3                  |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |
| —                   | —                    | —                     | —                     |

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| Model  |                      | LCA75S-24-H         |  | Temperature  |  | 25℃      |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
|--|----------------------|---------------------|--|--|--|----------|--|----------------------|----------------------|--|----------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|-----|----|
| Item   |                      | Hold-Up Time 出力保持時間 |  | Testing Circuitry  |  | Figure A |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| Object   |                      | +24.0V3.2A          |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 1. Graph   |                      |                     |  | 2. Values  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| <div><div>-----□-----</div><div>Load 50%</div></div> <div><div>-----△-----</div><div>Load 100%</div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div> <div><div>Hold-Up Time</div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div> <div><div>Input Voltage</div><div>[V]</div></div> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note: Slanted line shows the range of the rated input voltage.</p><p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p><p>(注)斜線は定格入力電圧範囲を示す。</p></div> |                      |                     |  | <table><tr><th rowspan="2">Input Voltage<br/>[V]</th><th colspan="2">Hold-Up Time<br/>[mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>27</td><td>12</td></tr><tr><td>80</td><td>34</td><td>16</td></tr><tr><td>85</td><td>42</td><td>20</td></tr><tr><td>90</td><td>50</td><td>24</td></tr><tr><td>100</td><td>68</td><td>33</td></tr><tr><td>110</td><td>88</td><td>44</td></tr><tr><td>120</td><td>110</td><td>55</td></tr><tr><td>132</td><td>139</td><td>71</td></tr><tr><td>140</td><td>160</td><td>82</td></tr></table> |  |          |  | Input Voltage<br>[V] | Hold-Up Time<br>[mS] |  | Load 50% | Load 100% | 75 | 27 | 12 | 80 | 34 | 16 | 85 | 42 | 20 | 90 | 50 | 24 | 100 | 68 | 33 | 110 | 88 | 44 | 120 | 110 | 55 | 132 | 139 | 71 | 140 | 160 | 82 |
| Input Voltage<br>[V]   | Hold-Up Time<br>[mS] |                     |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
|  | Load 50%             | Load 100%           |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 75   | 27                   | 12                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 80   | 34                   | 16                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 85   | 42                   | 20                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 90   | 50                   | 24                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 100  | 68                   | 33                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 110  | 88                   | 44                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 120  | 110                  | 55                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 132  | 139                  | 71                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |
| 140  | 160                  | 82                  |  |  |  |          |  |                      |                      |  |          |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |     |     |    |     |     |    |     |     |    |

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

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

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注)斜線は定格入力電圧範囲を示す。



# COSEL

|        |   |                   |          |
|--------|---|-------------------|----------|
| Model  | LCA75S-24-H                                       | Temperature       | 25°C     |
| Item   | Instantaneous Interruption Compensation<br>瞬時停電保障 | Testing Circuitry | Figure A |
| Object | +24.0V3.2A  |                   |          |

1. Graph

△

—

Input Volt. 85 V

□

- - -

Input Volt. 100 V

○

- - -

Input Volt. 132 V

[mS]

1000

Instantaneous Compensation Time

100

10

1

0

1

2

3

4

Load Current [A]

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

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

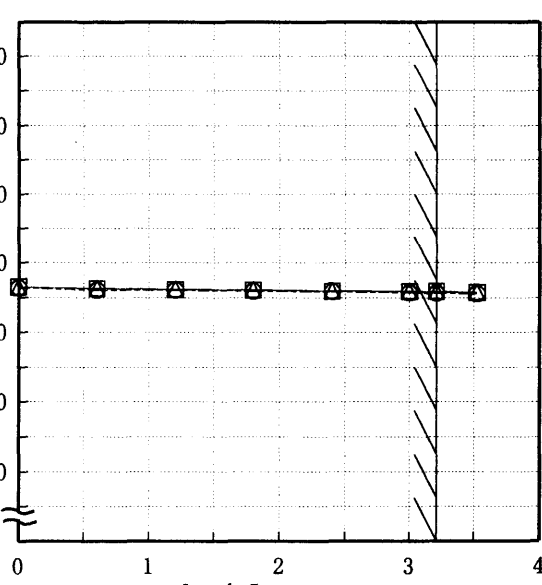
瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注) 斜線は定格負荷電流範囲を示す。

2. Values

| Load Current [A] | Time [mS]         |                    |                    |
|------------------|-------------------|--------------------|--------------------|
|                  | Input Volt. 85[V] | Input Volt. 100[V] | Input Volt. 132[V] |
| 0.00             | —                 | —                  | —                  |
| 0.60             | 106               | 173                | 348                |
| 1.20             | 48                | 87                 | 181                |
| 1.80             | 30                | 56                 | 121                |
| 2.40             | 22                | 39                 | 90                 |
| 3.00             | 14                | 31                 | 73                 |
| 3.20             | 14                | 30                 | 68                 |
| 3.52             | 13                | 27                 | 61                 |
| —                | —                 | —                  | —                  |
| —                | —                 | —                  | —                  |
| —                | —                 | —                  | —                  |

**COSEL**

| Model  |                    | LCA75S-24-H            |                    | Temperature   |  | 25℃      |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
|--|--------------------|------------------------|--------------------|---|--|----------|--|------------------|--------------------|--|--|-------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|---|---|---|---|---|---|---|---|
| Item   |                    | Load Regulation 静的負荷変動 |                    | Testing Circuitry   |  | Figure A |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| Object   |                    | +24.0V3.2A             |                    |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 1. Graph   |                    |                        |                    | 2. Values   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| <div><div><div>△</div><div>—</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>- - -</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>· · ·</div><div>Input Volt. 132 V</div></div></div> <div><div>Output Voltage [V]</div><div><div>24.020</div><div>23.980</div><div>23.940</div><div>23.900</div><div>23.860</div><div>23.820</div><div>23.780</div><div>0</div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div><div>Load Current [A]</div></div>  <div><div>Note: Slanted line shows the range of the rated load current.</div><div>(注)斜線は定格負荷電流範囲を示す。</div></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>0.00</td><td>23.886</td><td>23.886</td><td>23.886</td></tr><tr><td>0.60</td><td>23.885</td><td>23.885</td><td>23.884</td></tr><tr><td>1.20</td><td>23.885</td><td>23.885</td><td>23.884</td></tr><tr><td>1.80</td><td>23.885</td><td>23.884</td><td>23.884</td></tr><tr><td>2.40</td><td>23.884</td><td>23.884</td><td>23.883</td></tr><tr><td>3.00</td><td>23.884</td><td>23.883</td><td>23.883</td></tr><tr><td>3.20</td><td>23.884</td><td>23.883</td><td>23.883</td></tr><tr><td>3.52</td><td>23.883</td><td>23.883</td><td>23.882</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] | 0.00 | 23.886 | 23.886 | 23.886 | 0.60 | 23.885 | 23.885 | 23.884 | 1.20 | 23.885 | 23.885 | 23.884 | 1.80 | 23.885 | 23.884 | 23.884 | 2.40 | 23.884 | 23.884 | 23.883 | 3.00 | 23.884 | 23.883 | 23.883 | 3.20 | 23.884 | 23.883 | 23.883 | 3.52 | 23.883 | 23.883 | 23.882 | — | — | — | — | — | — | — | — |
| Load Current [A]   | Output Voltage [V] |                        |                    |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
|  | Input Volt. 85[V]  | Input Volt. 100[V]     | Input Volt. 132[V] |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 0.00   | 23.886             | 23.886                 | 23.886             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 0.60   | 23.885             | 23.885                 | 23.884             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 1.20   | 23.885             | 23.885                 | 23.884             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 1.80   | 23.885             | 23.884                 | 23.884             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 2.40   | 23.884             | 23.884                 | 23.883             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 3.00   | 23.884             | 23.883                 | 23.883             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 3.20   | 23.884             | 23.883                 | 23.883             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| 3.52   | 23.883             | 23.883                 | 23.882             |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| —  | —                  | —                      | —                  |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |
| —  | —                  | —                      | —                  |   |  |          |  |                  |                    |  |  |                   |                    |                    |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |      |        |        |        |   |   |   |   |   |   |   |   |

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

(注)斜線は定格負荷電流範囲を示す。

# COSEL

LOREL

|        |   |
|--------|---|
| Model  | LCA75S-24-H                                       |
| Item   | Ripple Voltage(by Load Current)<br>リップル電圧(負荷電流特性) |
| Object | +24.0V 3.2A                                       |

|                   |          |
|-------------------|----------|
| Temperature       | 25℃      |
| Testing Circuitry | Figure A |

1. Graph

□-----

Input Volt. 85V

△-----

Input Volt. 132V

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

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

リップル電圧は、下図 p-p 値で示される。  
(注)斜線は定格負荷電流範囲を示す。

2.Values

| Load Current<br>[A] | Input Volt.<br>85 [V]       | Input Volt.<br>132 [V]      |
|---------------------|-----------------------------|-----------------------------|
|                     | Ripple Output<br>Volt. [mV] | Ripple Output<br>Volt. [mV] |
| 0.00                | 10                          | 10                          |
| 0.40                | 20                          | 25                          |
| 0.80                | 25                          | 30                          |
| 1.20                | 30                          | 30                          |
| 1.60                | 30                          | 30                          |
| 2.40                | 30                          | 30                          |
| 2.80                | 35                          | 35                          |
| 3.20                | 35                          | 35                          |
| 3.60                | 35                          | 35                          |
| 4.00                | 35                          | 35                          |
| 4.20                | 35                          | 35                          |

T1: Due to AC Input Line  
入力商用周期

T2: Due to Switching  
スイッチング周期

T1

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

# COSEL

|        |  |                        |  |
|--------|--|------------------------|--|
| Model  |  | LCA75S-24-H            |  |
| Item   |  | Ripple-Noise   リップルノイズ |  |
| Object |  | +24.0V3.2A             |  |

1. Graph

□

Input Volt. 85V

△

Input Volt. 132V

Ripple-Noise  
[mV]

</

**COSEL**

| Model   |                       | LCA75S-24-H                     |                        | Temperature   |  | 25℃      |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
|---|-----------------------|---------------------------------|------------------------|---|--|----------|--|-----------------------|---------------------|--|--|-----------------------|------------------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|
| Item  |                       | Overcurrent Protection<br>過電流保護 |                        | Testing Circuitry   |  | Figure A |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| Object  |                       | +24.0V 3.2A                     |                        |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 1. Graph  |                       |                                 |                        | 2. Values   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| <div><div><div>-----</div><div>-----</div><div>-----</div></div><div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div></div> <div><div>[V]</div><div><div>40.0</div><div>30.0</div><div>20.0</div><div>10.0</div><div>0.0</div></div><div>Output Voltage</div><div>[V]</div></div> <div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>Load Current</div><div>[A]</div></div> <div>Note: Slanted line shows the range of the rated load current.</div> <div>(注)斜線は定格負荷電流範囲を示す。</div> |                       |                                 |                        | <table><tr><th rowspan="2">Output Voltage<br/>[V]</th><th colspan="3">Load Current<br/>[A]</th></tr><tr><th>Input Volt.<br/>85 [V]</th><th>Input Volt.<br/>100 [V]</th><th>Input Volt.<br/>132 [V]</th></tr><tr><td>24.00</td><td>4.987</td><td>4.960</td><td>5.000</td></tr><tr><td>22.80</td><td>5.001</td><td>4.976</td><td>5.007</td></tr><tr><td>21.60</td><td>5.028</td><td>5.012</td><td>5.027</td></tr><tr><td>19.20</td><td>5.095</td><td>5.072</td><td>5.053</td></tr><tr><td>16.80</td><td>5.135</td><td>5.109</td><td>5.081</td></tr><tr><td>14.40</td><td>5.189</td><td>5.140</td><td>5.108</td></tr><tr><td>12.00</td><td>5.190</td><td>5.170</td><td>5.132</td></tr><tr><td>9.60</td><td>5.218</td><td>5.195</td><td>5.148</td></tr><tr><td>7.20</td><td>5.235</td><td>5.204</td><td>5.146</td></tr><tr><td>4.80</td><td>5.221</td><td>5.180</td><td>5.101</td></tr><tr><td>2.40</td><td>5.088</td><td>5.034</td><td>4.931</td></tr><tr><td>0.00</td><td>5.312</td><td>5.298</td><td>5.304</td></tr></table> |  |          |  | Output Voltage<br>[V] | Load Current<br>[A] |  |  | Input Volt.<br>85 [V] | Input Volt.<br>100 [V] | Input Volt.<br>132 [V] | 24.00 | 4.987 | 4.960 | 5.000 | 22.80 | 5.001 | 4.976 | 5.007 | 21.60 | 5.028 | 5.012 | 5.027 | 19.20 | 5.095 | 5.072 | 5.053 | 16.80 | 5.135 | 5.109 | 5.081 | 14.40 | 5.189 | 5.140 | 5.108 | 12.00 | 5.190 | 5.170 | 5.132 | 9.60 | 5.218 | 5.195 | 5.148 | 7.20 | 5.235 | 5.204 | 5.146 | 4.80 | 5.221 | 5.180 | 5.101 | 2.40 | 5.088 | 5.034 | 4.931 | 0.00 | 5.312 | 5.298 | 5.304 |
| Output Voltage<br>[V]   | Load Current<br>[A]   |                                 |                        |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
|   | Input Volt.<br>85 [V] | Input Volt.<br>100 [V]          | Input Volt.<br>132 [V] |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 24.00   | 4.987                 | 4.960                           | 5.000                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 22.80   | 5.001                 | 4.976                           | 5.007                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 21.60   | 5.028                 | 5.012                           | 5.027                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 19.20   | 5.095                 | 5.072                           | 5.053                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 16.80   | 5.135                 | 5.109                           | 5.081                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 14.40   | 5.189                 | 5.140                           | 5.108                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 12.00   | 5.190                 | 5.170                           | 5.132                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 9.60  | 5.218                 | 5.195                           | 5.148                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 7.20  | 5.235                 | 5.204                           | 5.146                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 4.80  | 5.221                 | 5.180                           | 5.101                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 2.40  | 5.088                 | 5.034                           | 4.931                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |
| 0.00  | 5.312                 | 5.298                           | 5.304                  |   |  |          |  |                       |                     |  |  |                       |                        |                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |

# COSEL

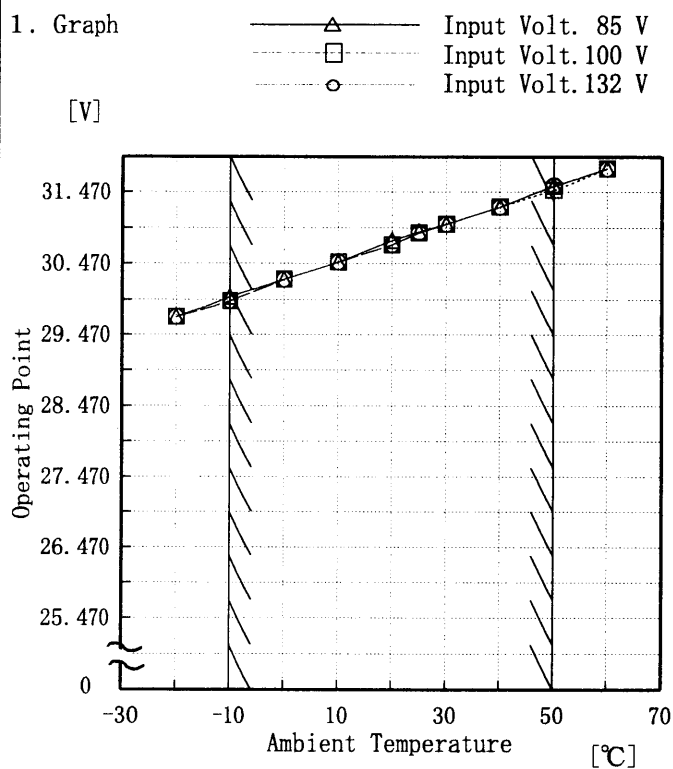
Model LCA75S-24-H

Item Overvoltage Protection  
過電圧保護

Object +24.0V3.2A

Testing Circuitry Figure A

## 1. Graph

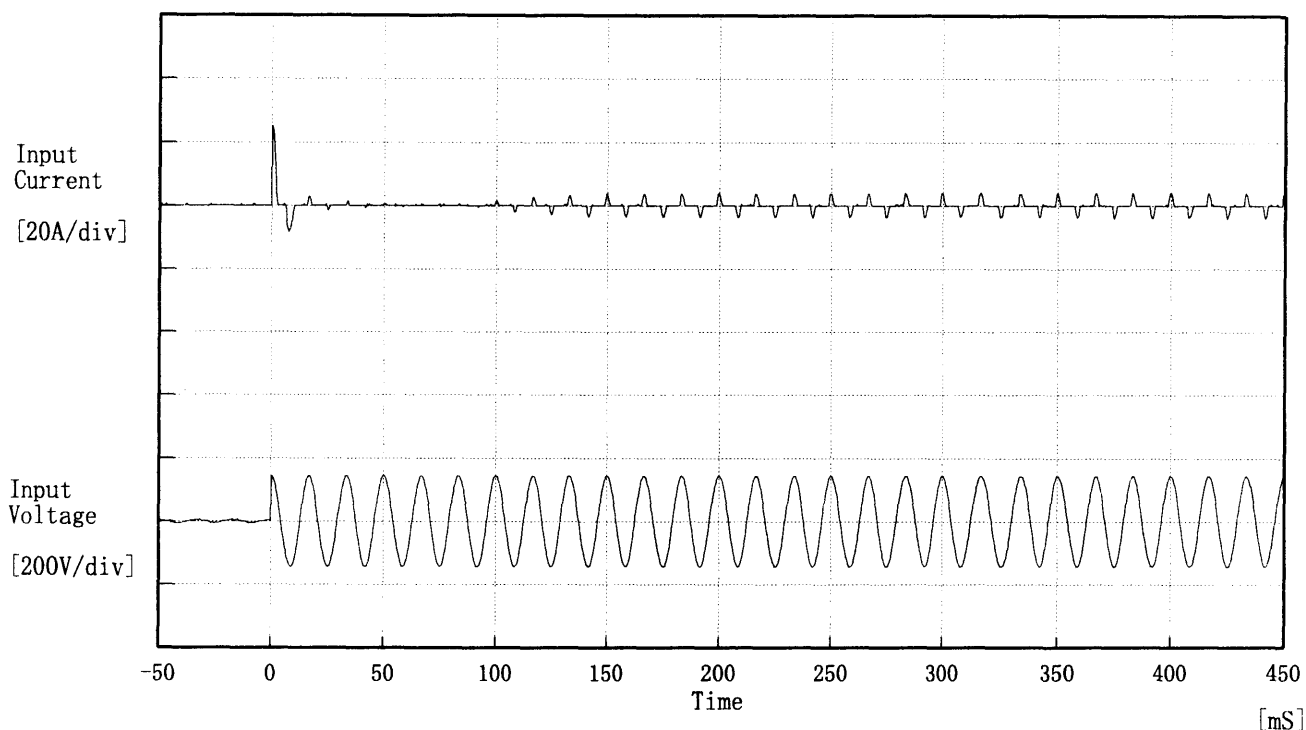


## 2. Values

| Ambient Temperature [°C] | Operating Point [V] |                    |                    |
|--------------------------|---------------------|--------------------|--------------------|
|                          | Input Volt. 85[V]   | Input Volt. 100[V] | Input Volt. 132[V] |
| -20                      | 29.72               | 29.72              | 29.72              |
| -10                      | 30.01               | 29.95              | 29.95              |
| 0                        | 30.25               | 30.25              | 30.25              |
| 10                       | 30.49               | 30.49              | 30.49              |
| 20                       | 30.79               | 30.73              | 30.73              |
| 25                       | 30.91               | 30.90              | 30.90              |
| 30                       | 31.02               | 31.02              | 31.02              |
| 40                       | 31.26               | 31.26              | 31.26              |
| 50                       | 31.56               | 31.50              | 31.56              |
| 60                       | 31.80               | 31.80              | 31.80              |
| —                        | —                   | —                  | —                  |

**COSEL**

|        |                     |                   |          |
|--------|---------------------|-------------------|----------|
| Model  | LCA75S-24-H         | Temperature       | 25℃      |
| Item   | Inrush Current 突入電流 | Testing Circuitry | Figure A |
| Object | _____               |                   |          |



Input Voltage 100 V

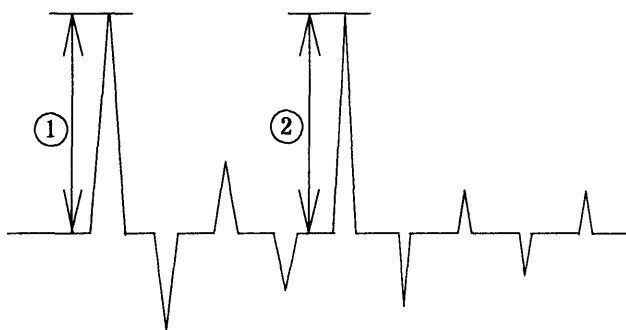
Frequency 60 Hz

Load 100 %

Inrush Current

① 25.29 [A]

② 4.09 [A]



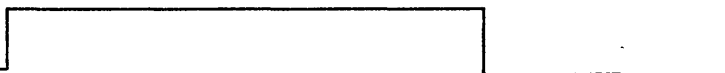
# COSEL

|        |                                 |                   |          |
|--------|---------------------------------|-------------------|----------|
| Model  | LCA75S-24-H                     |                   |          |
| Item   | Dynamic Load Responce<br>動的負荷変動 | Temperature       | 25°C     |
| Object | +24.0V3.2A                      | Testing Circuitry | Figure A |

Input Volt. 100 V

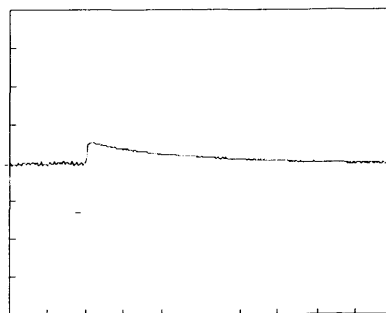
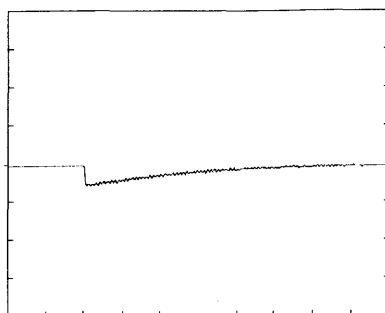
Cycle 1000 mS

Load Current



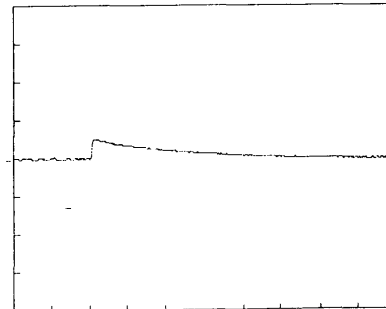
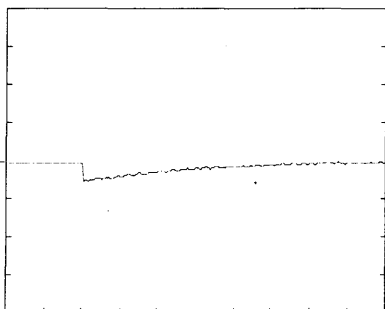
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div



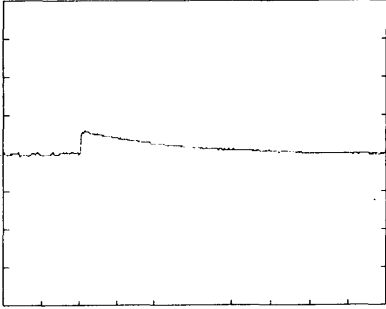
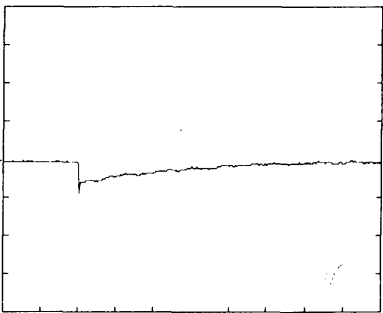
COSEL

|        |                                 |                                  |                  |
|--------|---------------------------------|----------------------------------|------------------|
| Model  | LCA75S-24-H                     |                                  |                  |
| Item   | Dynamic Load Responce<br>動的負荷変動 | Temperature<br>Testing Circuitry | 25°C<br>Figure A |
| Object | +24.0V3.2A                      |                                  |                  |

Input Volt. 100 V  
Cycle 1000 mS



Load 0% ←→  
Load Peak



100 mV/div

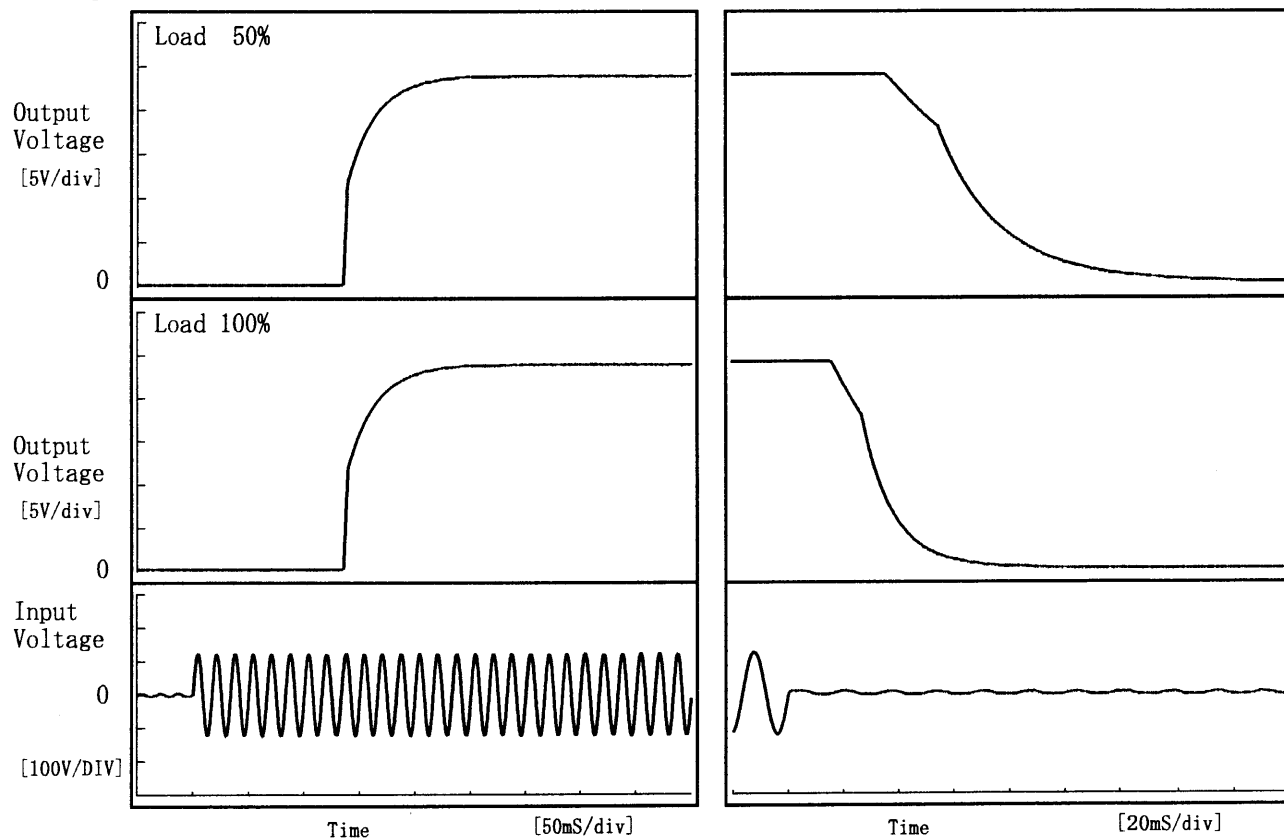
10 mS/div

**COSEL**

|        |                                 |                   |          |
|--------|---------------------------------|-------------------|----------|
| Model  | LCA75S-24-H                     | Temperature       | 25℃      |
| Item   | Rise and Fall Time<br>立上り、立下り時間 | Testing Circuitry | Figure A |
| Object | +24.0V3.2A                      |                   |          |

## 1. Graph

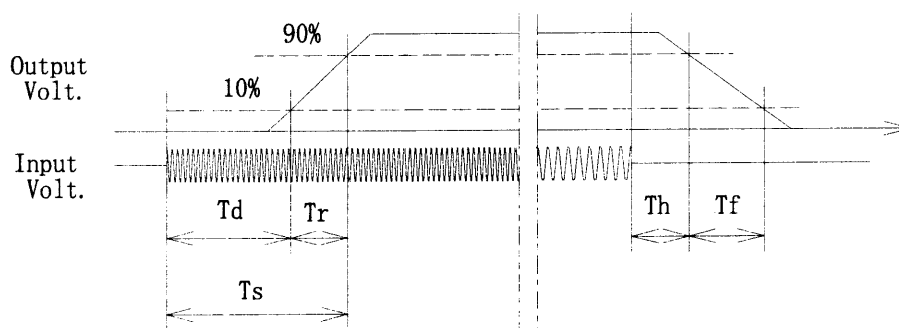
Input Volt. 85 V



## 2. Values

[mS]

| Load \ Time | T d   | T r  | T s   | T h  | T f  |
|-------------|-------|------|-------|------|------|
| 50 %        | 135.8 | 48.8 | 184.5 | 42.6 | 59.3 |
| 100 %       | 135.8 | 48.3 | 184.0 | 19.9 | 30.8 |



# COSEL

|        |                                     |
|--------|-------------------------------------|
| COSEL  |                                     |
| Model  | LCA75S-24-H                         |
| Item   | Ambient Temperature Drift<br>周囲温度変動 |
| Object | +24.0V3.2A                          |

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[V]

Output Voltage

24.030

23.990

23.950

23.910

23.870

23.830

23.790

0

Ambient Temperature

-30

-10

10

30

50

70

Load

100%

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

(注)斜線は定格周囲温度範囲を示す。

|                            |                       |                       |                       |
|----------------------------|-----------------------|-----------------------|-----------------------|
| Ambient Temperature<br>[℃] | Output Voltage<br>[V] |                       |                       |
|                            | Input Volt.<br>85[V]  | Input Volt.<br>100[V] | Input Volt.<br>132[V] |
| -20                        | 23.973                | 23.973                | 23.972                |
| -10                        | 23.957                | 23.957                | 23.957                |
| 0                          | 23.940                | 23.939                | 23.939                |
| 10                         | 23.920                | 23.920                | 23.920                |
| 20                         | 23.899                | 23.899                | 23.898                |
| 25                         | 23.889                | 23.888                | 23.888                |
| 30                         | 23.877                | 23.876                | 23.876                |
| 40                         | 23.852                | 23.851                | 23.851                |
| 50                         | 23.828                | 23.828                | 23.828                |
| 60                         | 23.807                | 23.807                | 23.807                |
| —                          | —                     | —                     | —                     |

2. Values

**COSEL**

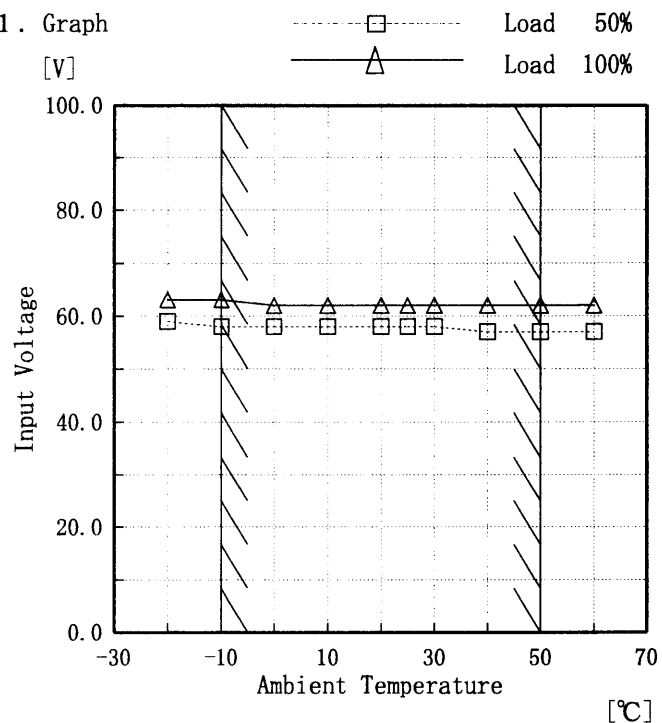
Model LCA75S-24-H

Item Minimum Input Voltage for Regulated Output Voltage  
最低レギュレーション電圧

Object +24.0V3.2A

Testing Circuitry Figure A

## 1. Graph



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

(注) 斜線は定格周囲温度範囲を示す。

## 2. Values

| Ambient Temperature [°C] | Input Voltage [V] |           |
|--------------------------|-------------------|-----------|
|                          | Load 50%          | Load 100% |
| -20                      | 59                | 63        |
| -10                      | 58                | 63        |
| 0                        | 58                | 62        |
| 10                       | 58                | 62        |
| 20                       | 58                | 62        |
| 25                       | 58                | 62        |
| 30                       | 58                | 62        |
| 40                       | 57                | 62        |
| 50                       | 57                | 62        |
| 60                       | 57                | 62        |
| —                        | —                 | —         |

**COSEL**

|        |  |             |
|--------|--|-------------|
| Model  |  | LCA75S-24-H |
| Item   | Ripple Voltage (by Ambient Temp.)<br>リップル電圧 (周囲温度特性) |             |
| Object | +24.0V3.2A   |             |

1. Graph

□ Load 50%

△ Load 100%

[mV]

150

125

100

75

50

25

0

Ripple Voltage

-30

-10

10

30

50

70

Ambient Temperature

[°C]

Input Volt. 100 V

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

(注)斜線は定格周囲温度範囲を示す。

2. Values

| Ambient Temp.<br>[°C] | Load 50%<br>Ripple Output<br>Volt. [mV] | Load 100%<br>Ripple Output<br>Volt. [mV] |
|-----------------------|---|--|
| -20                   | 60                                      | 60                                       |
| -10                   | 45                                      | 45                                       |
| 0                     | 40                                      | 40                                       |
| 10                    | 35                                      | 35                                       |
| 20                    | 30                                      | 35                                       |
| 25                    | 30                                      | 30                                       |
| 30                    | 30                                      | 30                                       |
| 40                    | 30                                      | 30                                       |
| 50                    | 30                                      | 30                                       |
| 60                    | 25                                      | 25                                       |
| —                     | —                                       | —  |

# COSEL

| COSEL   |                         |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
|---|-------------------------|--|----------|----------------------|--------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Model   | LCA75S-24-H             |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Item  | Time Lapse Drift 経時ドリフト | Temperature  | 25℃      |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| Object  | +24.0V3.2A              | Testing Circuitry  | Figure A |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1. Graph  |                         | 2.Values   |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| <div>[V]</div> <div><p>Output Voltage</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div> |                         | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>23.914</td></tr><tr><td>0.5</td><td>23.894</td></tr><tr><td>1.0</td><td>23.894</td></tr><tr><td>2.0</td><td>23.893</td></tr><tr><td>3.0</td><td>23.893</td></tr><tr><td>4.0</td><td>23.893</td></tr><tr><td>5.0</td><td>23.893</td></tr><tr><td>6.0</td><td>23.893</td></tr><tr><td>7.0</td><td>23.893</td></tr><tr><td>8.0</td><td>23.893</td></tr></table> |          | Time since start [H] | Output Voltage [V] | 0.0 | 23.914 | 0.5 | 23.894 | 1.0 | 23.894 | 2.0 | 23.893 | 3.0 | 23.893 | 4.0 | 23.893 | 5.0 | 23.893 | 6.0 | 23.893 | 7.0 | 23.893 | 8.0 | 23.893 |
| Time since start [H]  | Output Voltage [V]      |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.0   | 23.914                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 0.5   | 23.894                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 1.0   | 23.894                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 2.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 3.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 4.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 5.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 6.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 7.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |
| 8.0   | 23.893                  |  |          |                      |                    |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |     |        |

**COSEL**

|        |  |                                  |                                 |
|--------|--|----------------------------------|---------------------------------|
| Model  |  | LCA75S-24-H                      | Testing Circuitry      Figure A |
| Item   |  | Output Voltage Accuracy    定電圧精度 |                                 |
| Object |  | +24.0V3.2A                       |                                 |

## 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 :    85~132 V

Load Current :    0~3.2 A

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

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

## 1. 定電圧精度

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

周囲温度            -10~50 °C

入力電圧            85~132 V

負荷電流            0~3.2 A

\* 定電圧精度(変動値) =  $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

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

## 2. Values

| Item            | Temperature<br>[°C] | Input<br>Voltage [V] | Output<br>Current [A] | Output<br>Voltage [V] | Output Voltage<br>Accuracy [mV] | Output Voltage<br>Accuracy(Ration) [%] |
|-----------------|---------------------|----------------------|-----------------------|-----------------------|---------------------------------|--|
| Maximum Voltage | -10                 | 132                  | 0.0                   | 23.958                | ±68                             | ±0.3                                   |
| Minimum Voltage | 50                  | 132                  | 3.2                   | 23.824                |                                 |  |

# COSEL

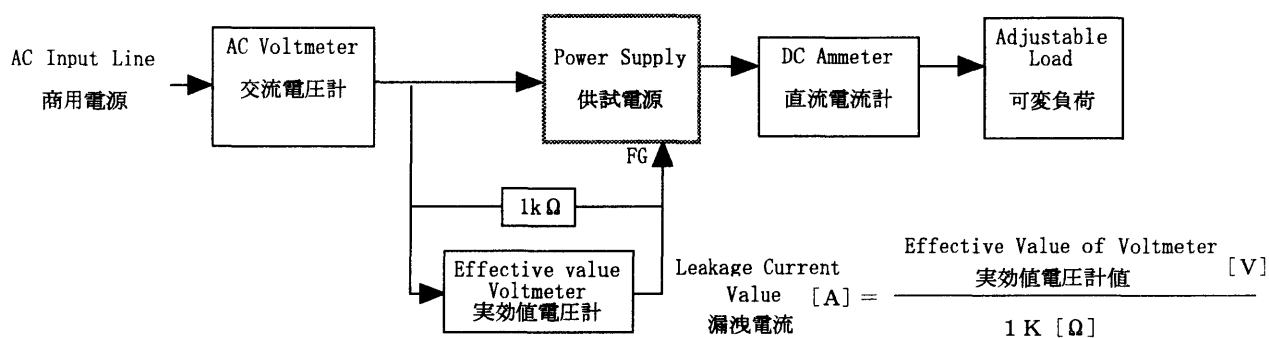
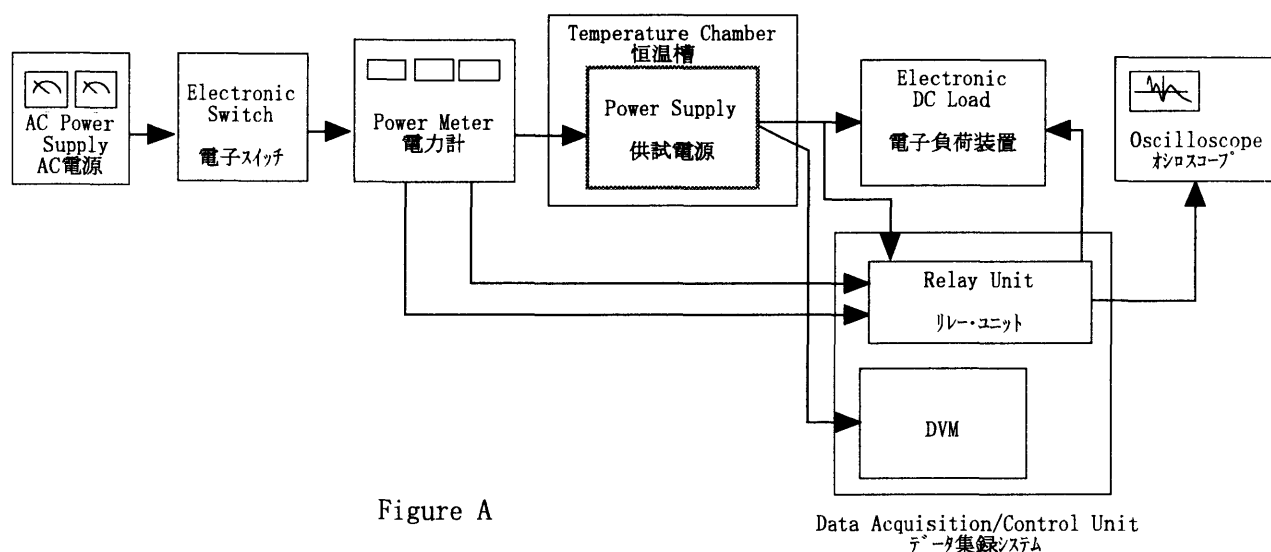


Figure B (DENTORI)

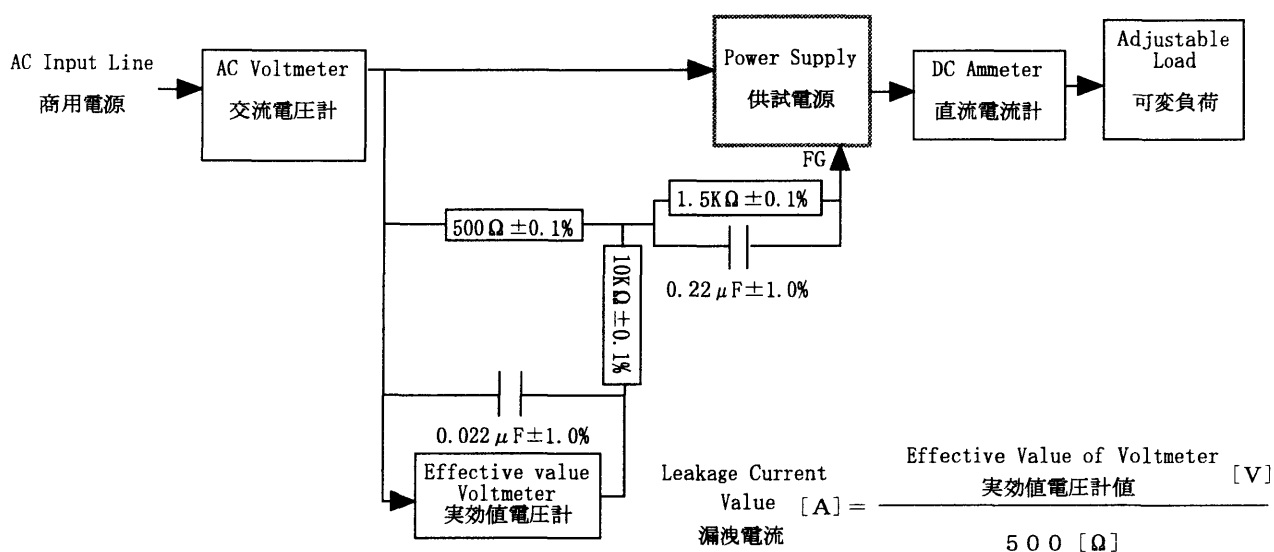


Figure B (IEC 60950)



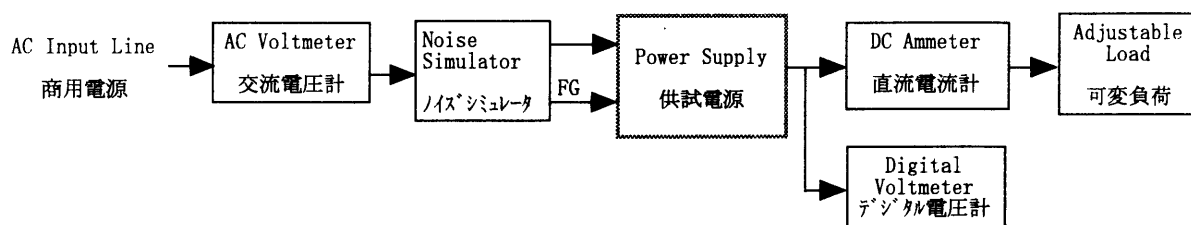


Figure C

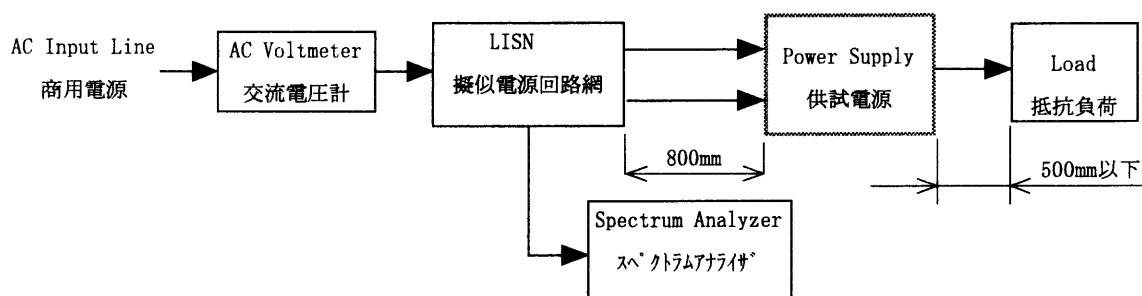


Figure D

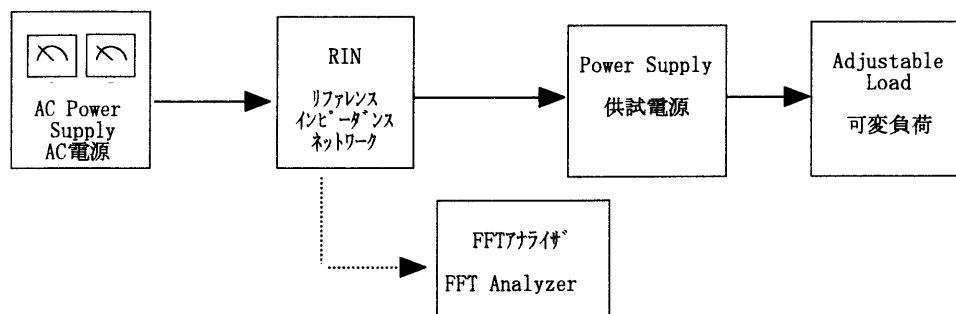


Figure E