

COSEL

TEST DATA OF LCA10S-5-H
(100V INPUT)

Regulated DC Power Supply

Dec. 9, 1999

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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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COSEL

Model	LCA10S-5-H		Temperature Testing Circuitry 25°C Figure A																																
Item	Line Regulation 静的入力変動																																		
Object	+5.0V2A																																		
1. Graph																																			
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>75</td><td>5.102</td><td>5.102</td></tr> <tr><td>80</td><td>5.102</td><td>5.102</td></tr> <tr><td>85</td><td>5.102</td><td>5.102</td></tr> <tr><td>90</td><td>5.102</td><td>5.102</td></tr> <tr><td>100</td><td>5.102</td><td>5.102</td></tr> <tr><td>110</td><td>5.102</td><td>5.102</td></tr> <tr><td>120</td><td>5.102</td><td>5.102</td></tr> <tr><td>132</td><td>5.102</td><td>5.102</td></tr> <tr><td>140</td><td>5.103</td><td>5.102</td></tr> </tbody> </table>			Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	5.102	5.102	80	5.102	5.102	85	5.102	5.102	90	5.102	5.102	100	5.102	5.102	110	5.102	5.102	120	5.102	5.102	132	5.102	5.102	140	5.103	5.102
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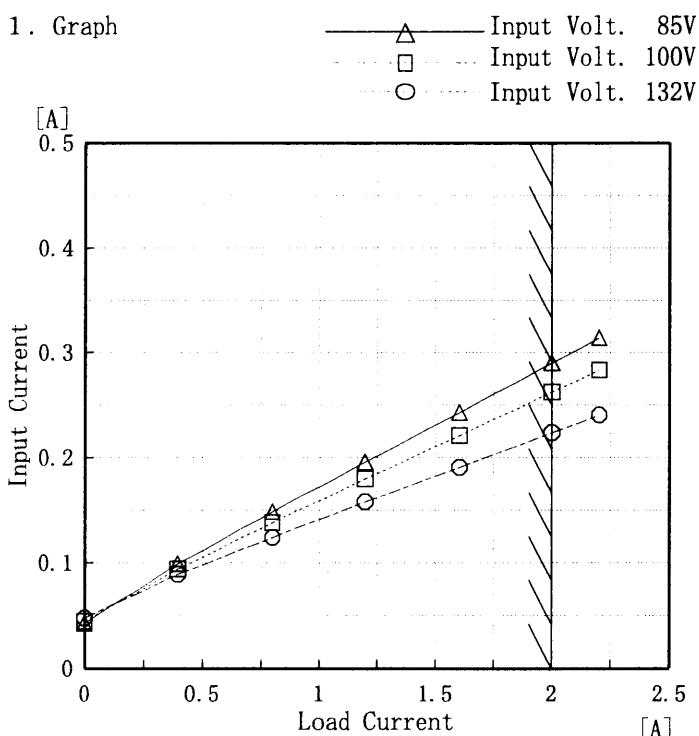
Note: Slanted line shows the range of the rated input voltage.

(注) 斜線は定格入力電圧範囲を示す。

COSEL

Model	LCA10S-5-H
Item	Input Current (by Load Current) 入力電流 (負荷特性)
Output	—

Temperature 25°C
Testing Circuitry Figure A



2. Values

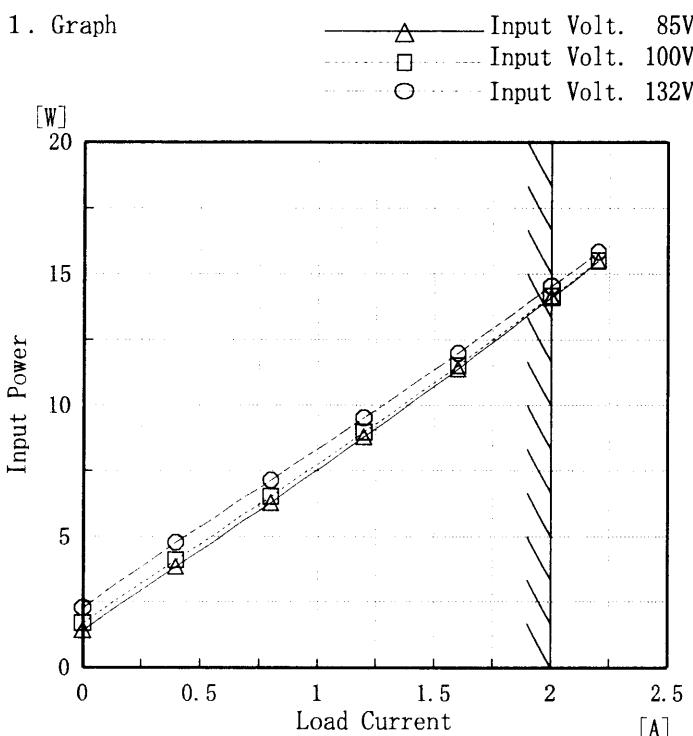
Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	0.043	0.044	0.048
0.4	0.099	0.094	0.089
0.8	0.149	0.138	0.124
1.2	0.196	0.180	0.158
1.6	0.243	0.221	0.191
2.0	0.290	0.262	0.224
2.2	0.314	0.283	0.241
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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

Model	LCA10S-5-H
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Output	—



Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	1.41	1.68	2.26
0.4	3.86	4.10	4.78
0.8	6.29	6.52	7.14
1.2	8.80	8.98	9.54
1.6	11.38	11.52	11.98
2.0	14.10	14.16	14.53
2.2	15.49	15.50	15.83
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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。

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Model	LCA10S-5-H																																	
Item	Efficiency (by Input Voltage) 効率(入力電圧特性)	Temperature Testing Circuitry 25°C Figure A																																
Object	—	—																																
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<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: □ Load 50% △ Load 100%</p>		<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>75</td><td>67.2</td><td>70.1</td></tr> <tr><td>80</td><td>66.6</td><td>70.4</td></tr> <tr><td>85</td><td>66.0</td><td>70.5</td></tr> <tr><td>90</td><td>65.3</td><td>70.5</td></tr> <tr><td>100</td><td>64.0</td><td>70.3</td></tr> <tr><td>110</td><td>62.8</td><td>69.9</td></tr> <tr><td>120</td><td>61.3</td><td>69.4</td></tr> <tr><td>132</td><td>59.8</td><td>68.6</td></tr> <tr><td>140</td><td>59.0</td><td>68.0</td></tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	67.2	70.1	80	66.6	70.4	85	66.0	70.5	90	65.3	70.5	100	64.0	70.3	110	62.8	69.9	120	61.3	69.4	132	59.8	68.6	140	59.0	68.0
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Note: Slanted line shows the range of the rated input voltage.

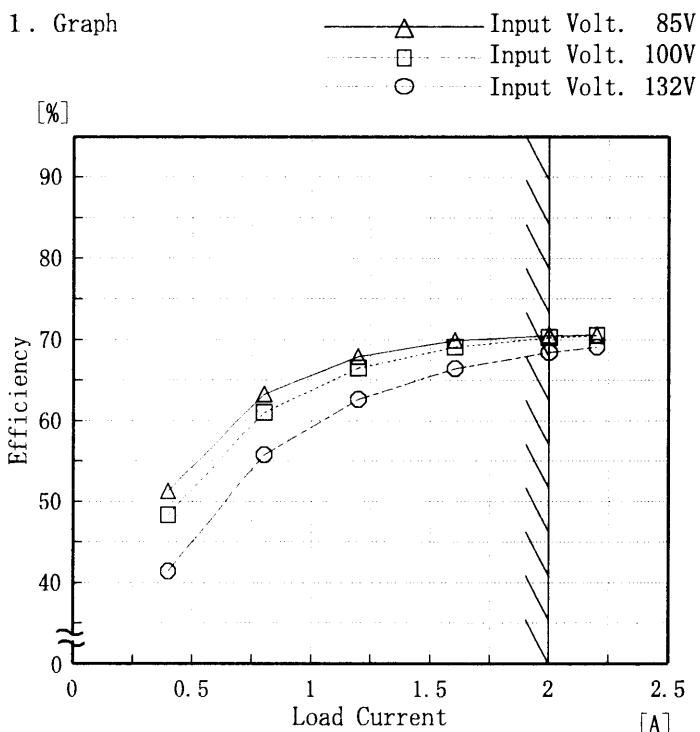
(注)斜線は定格入力電圧範囲を示す。

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Model LCA10S-5-H

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

Output _____



Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.4	51.3	48.3	41.4
0.8	63.3	61.0	55.8
1.2	67.9	66.5	62.6
1.6	69.9	69.1	66.4
2.0	70.5	70.2	68.4
2.2	70.6	70.5	69.1
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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。

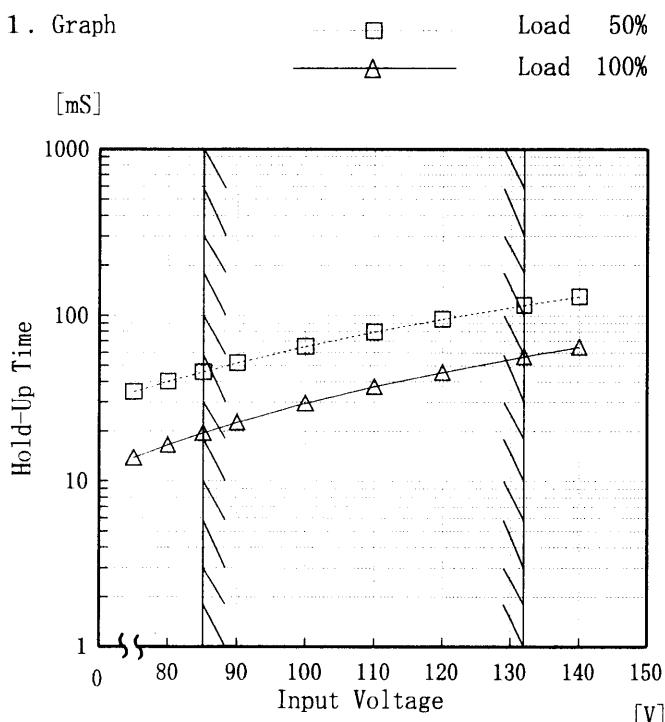
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Model LCA10S-5-H

Item Hold-Up Time 出力保持時間

Object +5.0V2A

1. Graph

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	35	14
80	40	17
85	46	20
90	52	23
100	65	30
110	80	37
120	95	46
132	115	57
140	130	65

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

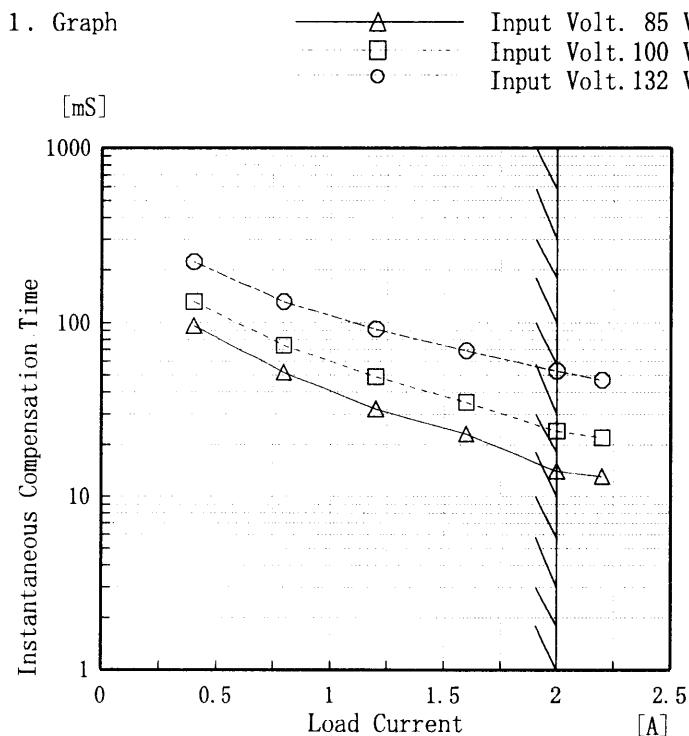
Note: Slanted line shows the range of the rated input voltage.

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。

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Model	LCA10S-5-H
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+5.0V2A

Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	—	—	—
0.4	96	132	223
0.8	52	74	132
1.2	32	49	92
1.6	23	35	69
2.0	14	24	53
2.2	13	22	47
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

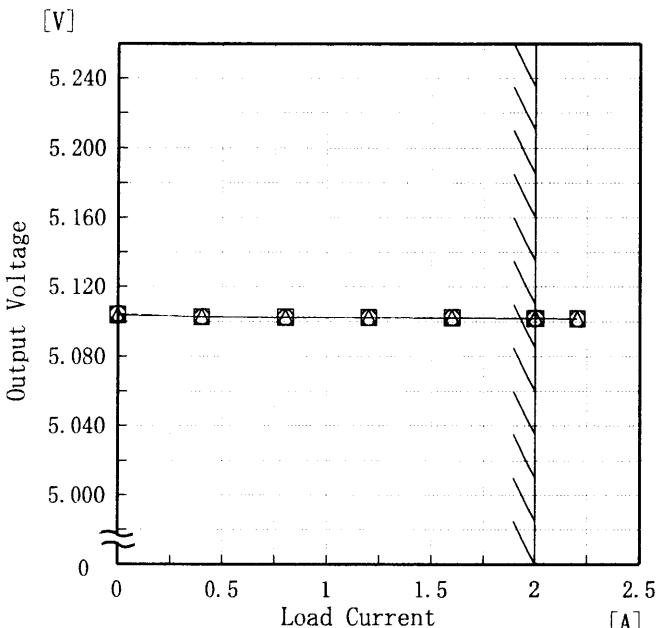
This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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。

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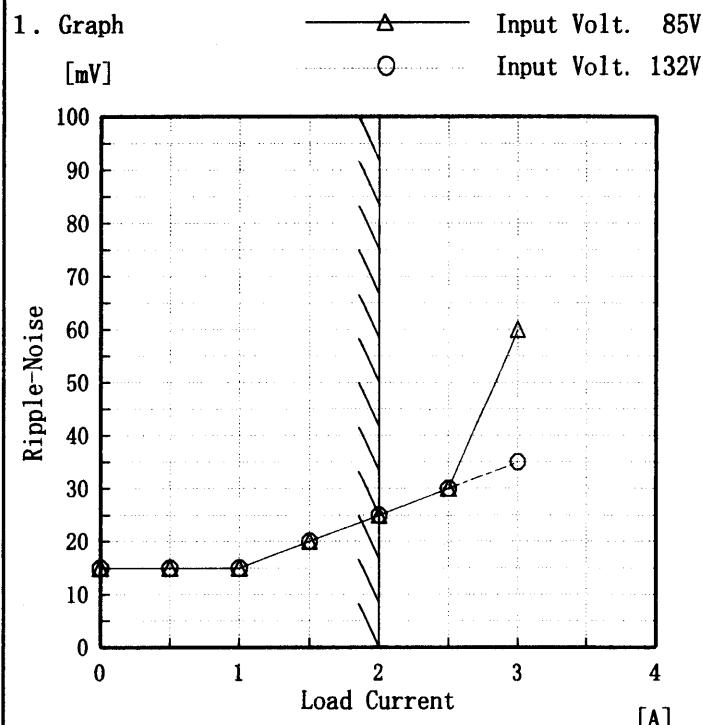
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COSEL

Model	LCA10S-5-H	Temperature	25°C																																						
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)	Testing Circuitry	Figure A																																						
Object	+5.0V2A																																								
1. Graph	<p>—△— Input Volt. 85V [mV] —○— Input Volt. 132V</p>																																								
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	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
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<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> <p>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。</p> <p>T1: Due to AC Input Line T2: Due to Switching</p> <p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>																																									

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Model	LCA10S-5-H
Item	Ripple-Noise リップルノイズ
Object	+5.0V2A



Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	15	15
0.5	15	15
1.0	15	15
1.5	20	20
2.0	25	25
2.5	30	30
3.0	60	35
—	—	—
—	—	—
—	—	—
—	—	—

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

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

リップルノイズは、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。

T1: Due to AC Input Line

入力商用周期

T2: Due to Switching

スイッチング周期

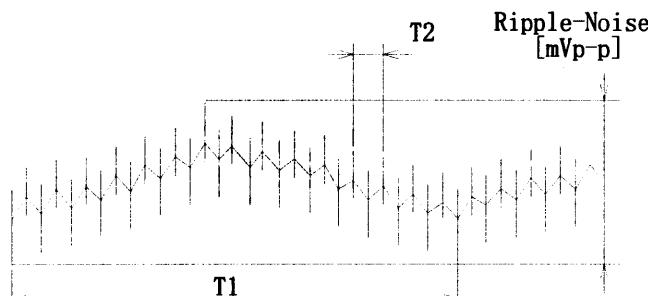


Fig. Complex Ripple Wave Form

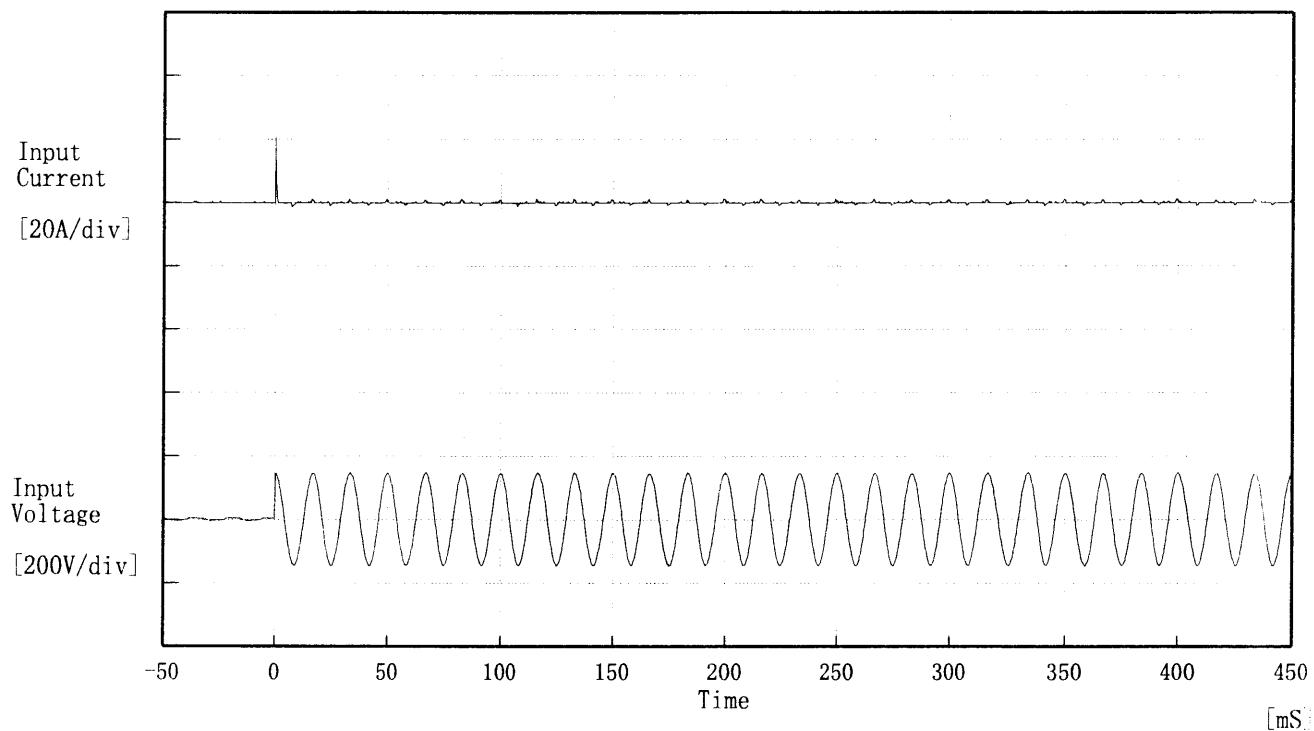
図 リップル波形詳細図

COSEL

Model	LCA10S-5-H																																																									
Item	Overcurrent Protection 過電流保護	Temperature Testing Circuitry	25°C Figure A																																																							
Object	+5.0V2A																																																									
1. Graph	<p>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</p> <p>Output Voltage [V]</p> <p>Load Current [A]</p>																																																									
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>3.85</td><td>3.90</td><td>3.98</td></tr> <tr><td>4.75</td><td>3.86</td><td>3.88</td><td>3.94</td></tr> <tr><td>4.50</td><td>3.86</td><td>3.86</td><td>3.90</td></tr> <tr><td>4.00</td><td>3.84</td><td>3.80</td><td>3.80</td></tr> <tr><td>3.50</td><td>3.79</td><td>3.72</td><td>3.69</td></tr> <tr><td>3.00</td><td>3.71</td><td>3.60</td><td>3.54</td></tr> <tr><td>2.50</td><td>3.59</td><td>3.46</td><td>3.37</td></tr> <tr><td>2.00</td><td>3.41</td><td>3.27</td><td>3.17</td></tr> <tr><td>1.50</td><td>3.18</td><td>3.03</td><td>2.93</td></tr> <tr><td>1.00</td><td>2.87</td><td>2.73</td><td>2.64</td></tr> <tr><td>0.50</td><td>2.51</td><td>2.39</td><td>2.34</td></tr> <tr><td>0.00</td><td>1.94</td><td>1.91</td><td>2.09</td></tr> </tbody> </table>			Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	5.00	3.85	3.90	3.98	4.75	3.86	3.88	3.94	4.50	3.86	3.86	3.90	4.00	3.84	3.80	3.80	3.50	3.79	3.72	3.69	3.00	3.71	3.60	3.54	2.50	3.59	3.46	3.37	2.00	3.41	3.27	3.17	1.50	3.18	3.03	2.93	1.00	2.87	2.73	2.64	0.50	2.51	2.39	2.34	0.00	1.94	1.91	2.09
Output Voltage [V]	Load Current [A]																																																									
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1.00	2.87	2.73	2.64																																																							
0.50	2.51	2.39	2.34																																																							
0.00	1.94	1.91	2.09																																																							
<p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>																																																										

COSEL

Model	LCA10S-5-H	Temperature Testing Circuitry	25°C Figure A
Item	Inrush Current 突入電流		
Object	<hr/>		



Input Voltage 100 V

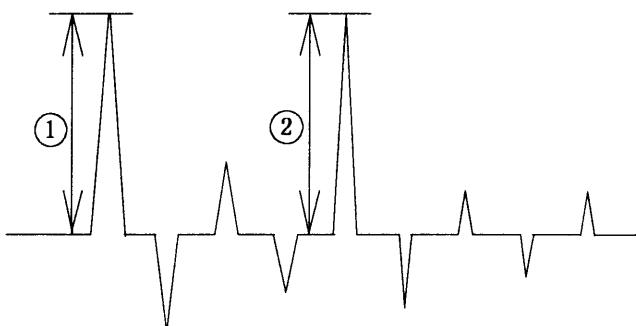
Frequency 60 Hz

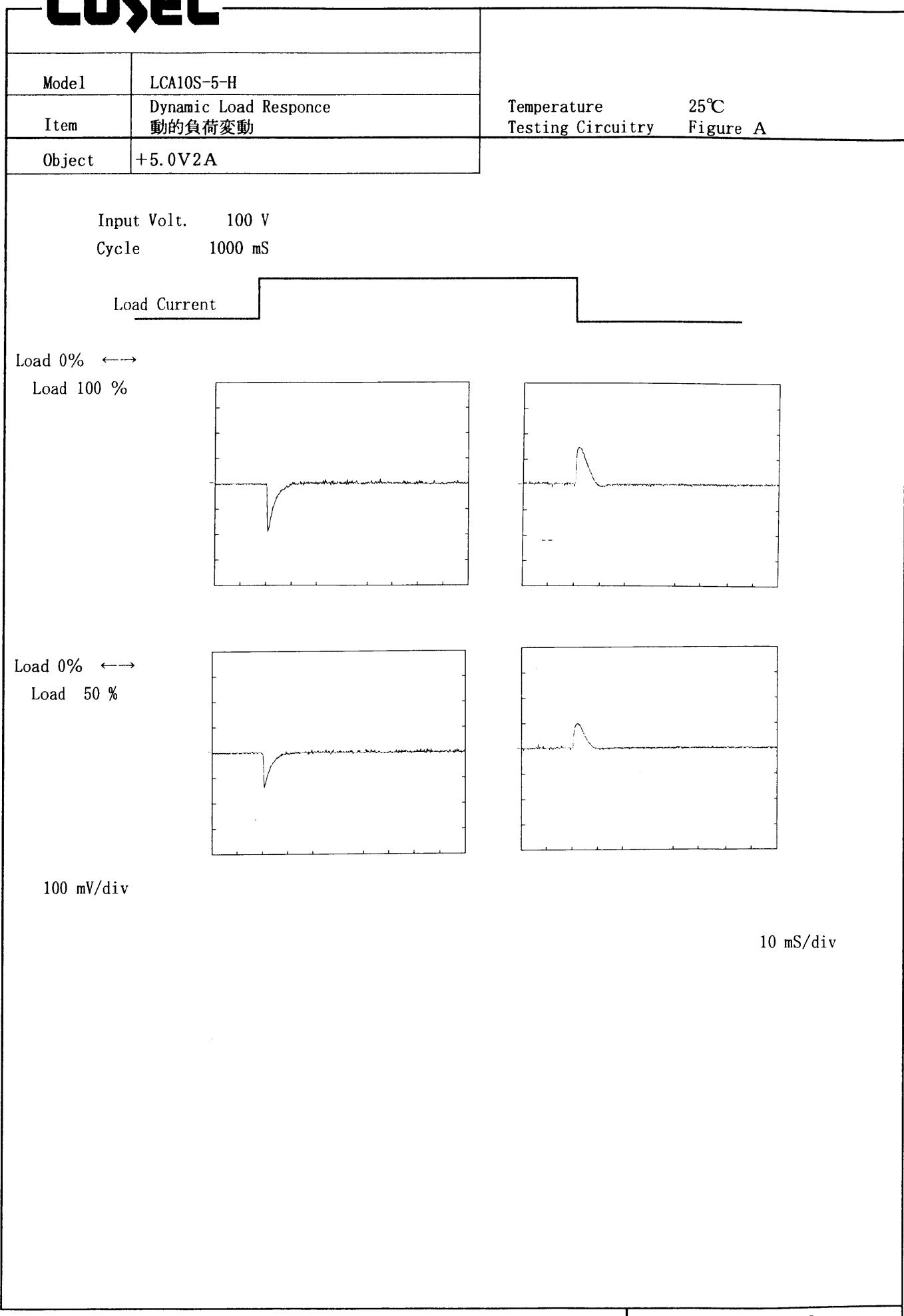
Load 100 %

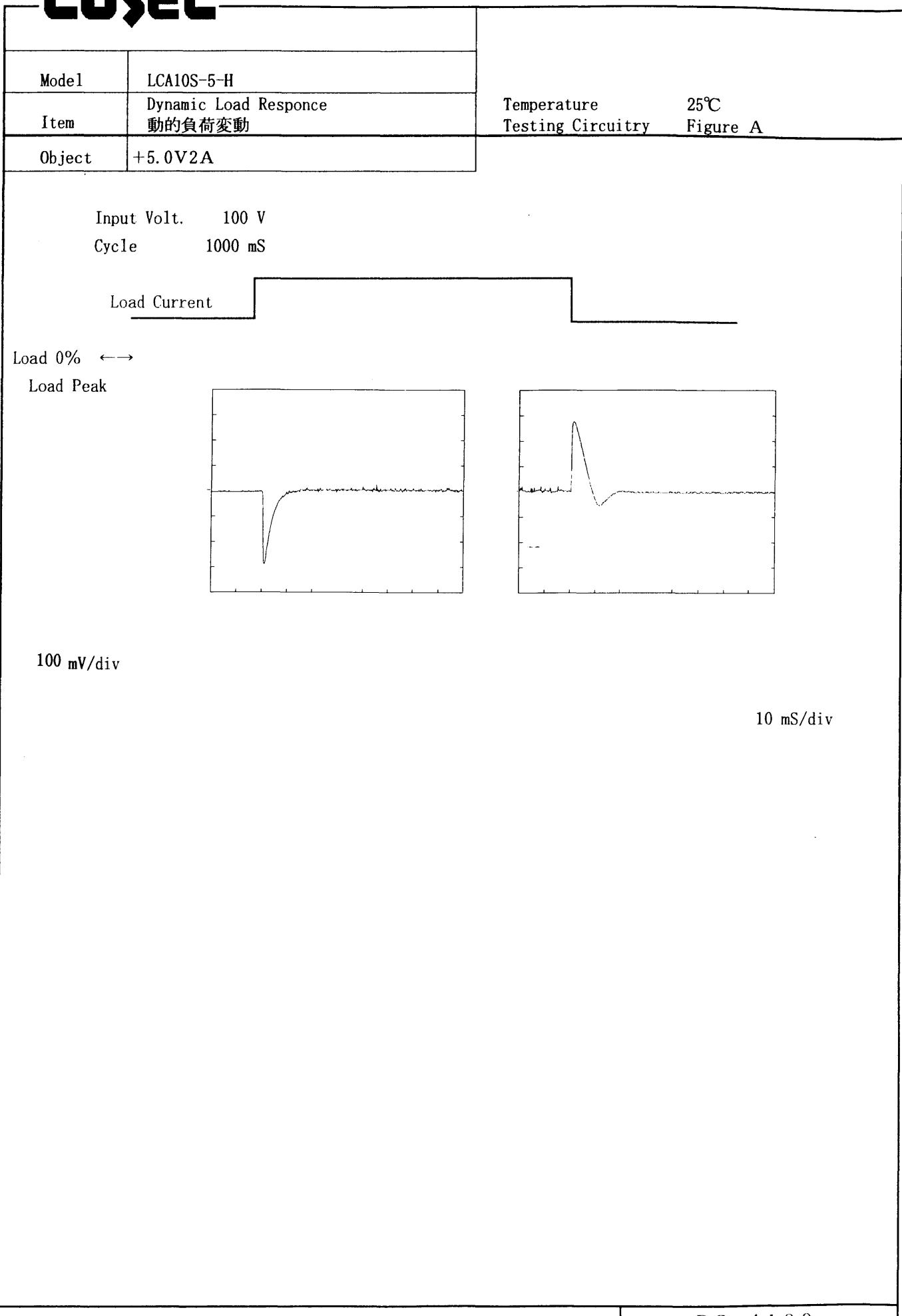
Inrush Current

① 20.39 [A]

② 1.21 [A]



COSEL

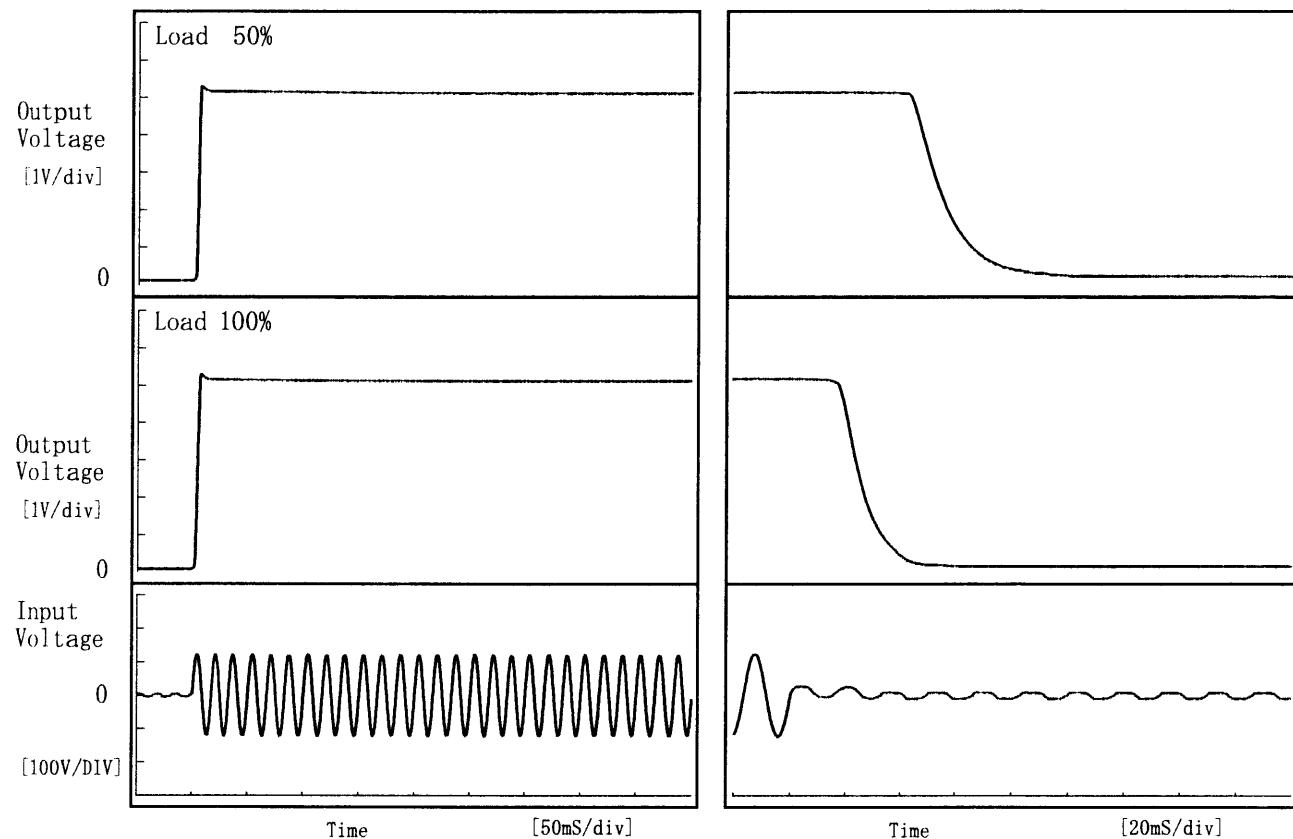
COSEL

COSEL

Model	LCA10S-5-H
Item	Rise and Fall Time 立上り、立下り時間
Object	+5.0V2A

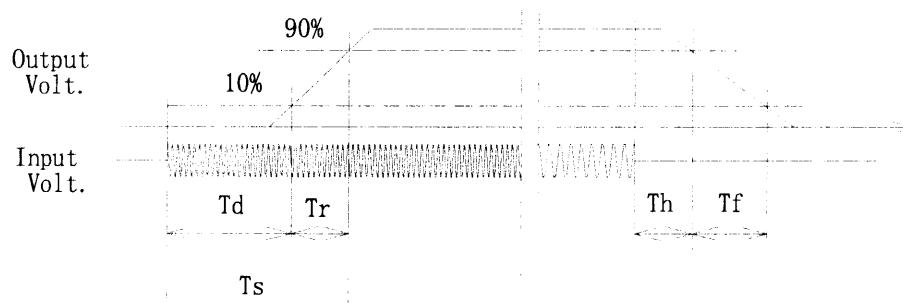
Temperature 25°C
Testing Circuitry Figure A

1. Graph



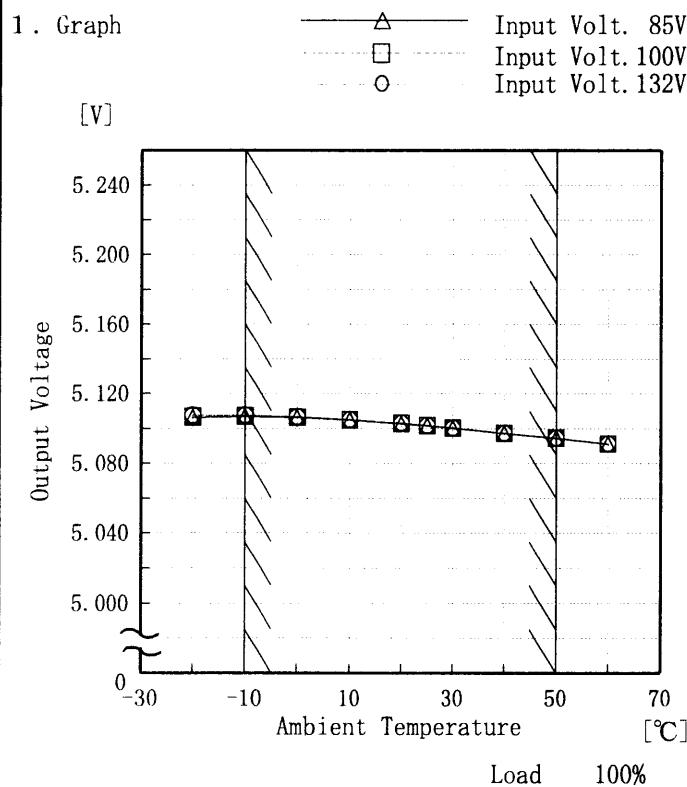
2. Values

Load	Time	T d	T r	T s	T h	T f	[mS]
50 %		2.0	2.8	4.8	46.4	29.3	
100 %		2.3	3.3	5.5	19.8	19.5	



COSEL

Model	LCA10S-5-H
Item	Ambient Temperature Drift 周囲温度変動
Object	+5.0V2A



Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	5.106	5.107	5.108
-10	5.107	5.107	5.108
0	5.106	5.107	5.107
10	5.105	5.105	5.105
20	5.103	5.103	5.103
25	5.102	5.102	5.102
30	5.100	5.100	5.101
40	5.097	5.098	5.098
50	5.094	5.095	5.095
60	5.091	5.092	5.091
—	—	—	—

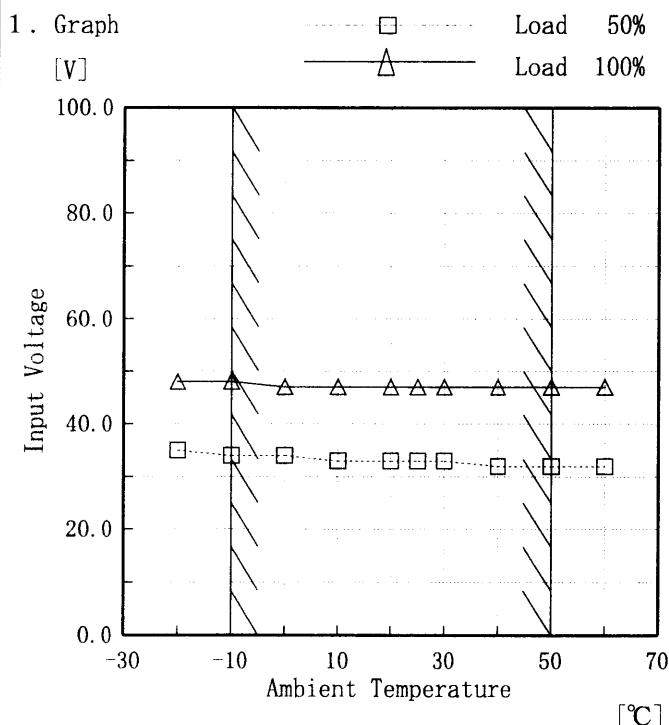
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	LCA10S-5-H
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+5.0V 2A

Testing Circuitry Figure A



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	35	48
-10	34	48
0	34	47
10	33	47
20	33	47
25	33	47
30	33	47
40	32	47
50	32	47
60	32	47
—	—	—

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。

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Model	LCA10S-5																																								
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	Testing Circuitry Figure A																																							
Object	+5.0V2A																																								
1. Graph																																									
		□ Load 50%	△ Load 100%																																						
		[mV]	[°C]																																						
		Input Volt. 100 V																																							
Note: Slanted line shows the range of the rated ambient temperature.																																									
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<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Ripple Output Voltage [mV]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>25</td><td>65</td></tr> <tr><td>-10</td><td>20</td><td>45</td></tr> <tr><td>0</td><td>15</td><td>30</td></tr> <tr><td>10</td><td>10</td><td>15</td></tr> <tr><td>20</td><td>10</td><td>15</td></tr> <tr><td>25</td><td>10</td><td>10</td></tr> <tr><td>30</td><td>10</td><td>10</td></tr> <tr><td>40</td><td>10</td><td>10</td></tr> <tr><td>50</td><td>10</td><td>10</td></tr> <tr><td>60</td><td>10</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>				Ambient Temperature [°C]	Ripple Output Voltage [mV]		Load 50%	Load 100%	-20	25	65	-10	20	45	0	15	30	10	10	15	20	10	15	25	10	10	30	10	10	40	10	10	50	10	10	60	10	10	—	—	—
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—	—	—																																							

COSEL

Model	LCA10S-5-H	Temperature	25°C																					
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																					
Object	+5.0V2A																							
1. Graph			2. Values																					
<p>[V]</p> <table border="1"> <caption>Data points from Figure A graph</caption> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.110</td></tr> <tr><td>0.5</td><td>5.109</td></tr> <tr><td>1.0</td><td>5.108</td></tr> <tr><td>2.0</td><td>5.107</td></tr> <tr><td>3.0</td><td>5.106</td></tr> <tr><td>4.0</td><td>5.105</td></tr> <tr><td>5.0</td><td>5.104</td></tr> <tr><td>6.0</td><td>5.103</td></tr> <tr><td>7.0</td><td>5.102</td></tr> <tr><td>8.0</td><td>5.102</td></tr> </tbody> </table>			Time since start [H]	Output Voltage [V]	0.0	5.110	0.5	5.109	1.0	5.108	2.0	5.107	3.0	5.106	4.0	5.105	5.0	5.104	6.0	5.103	7.0	5.102	8.0	5.102
Time since start [H]	Output Voltage [V]																							
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<p>Output Voltage [V]</p> <p>Input Volt. 100V Load 100%</p>																								



Model	LCA10S-5-H	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+5.0V2A	

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 : 0~2 A

* Output Voltage Accuracy = ±(Maximum of Output Voltage - Minimum of Output Voltage) / 2

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

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 0~2 A

* 定電圧精度(変動値) = ±(出力電圧の最高値-出力電圧の最低値) / 2

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

2. Values

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132	0	5.108		
Minimum Voltage	50	85	2	5.094	±8	±0.2

COSEL

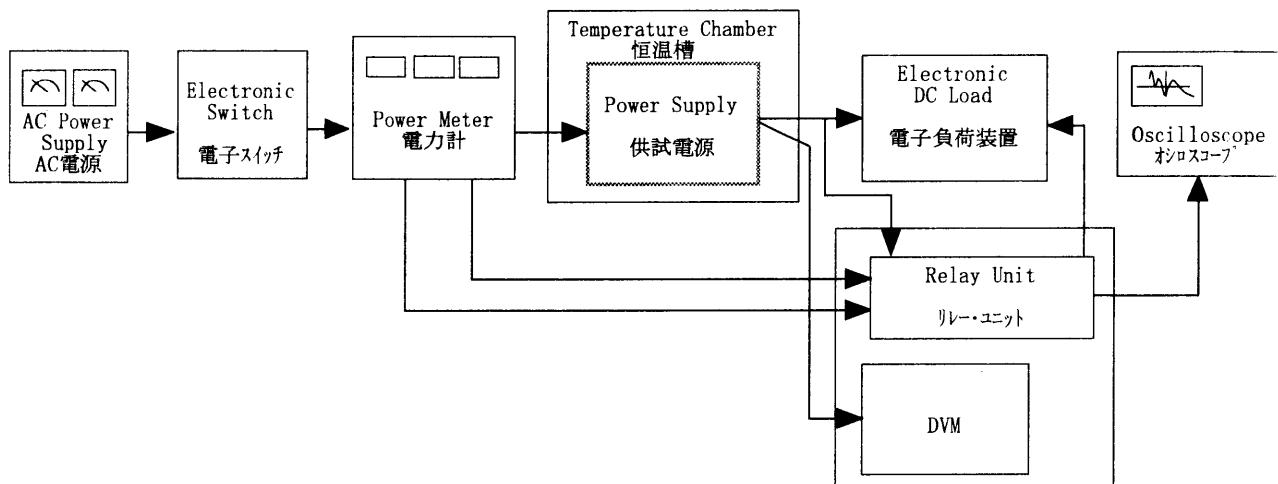


Figure A

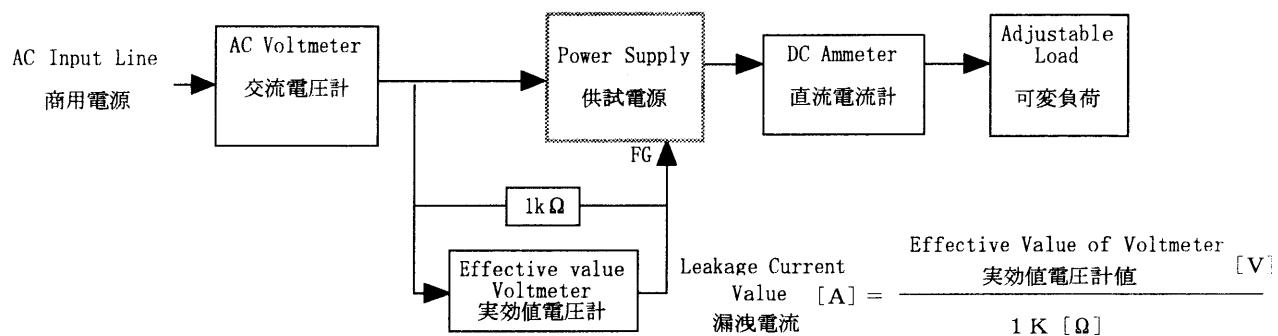
Data Acquisition/Control Unit
データ集録システム

Figure B (DENTORI)

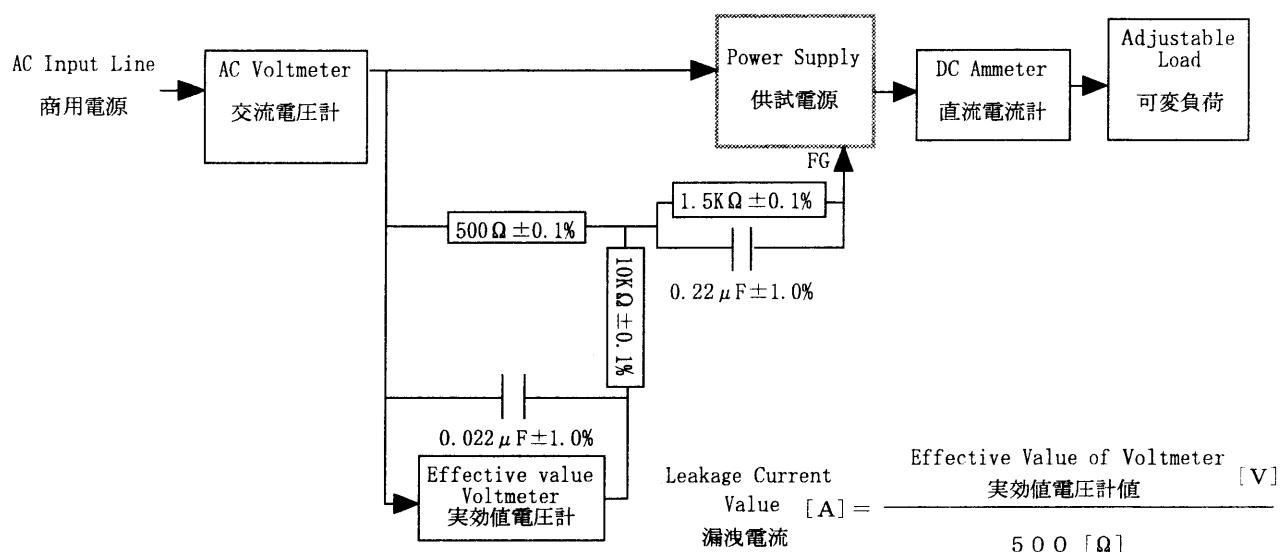


Figure B (IEC 60950)

COSEL

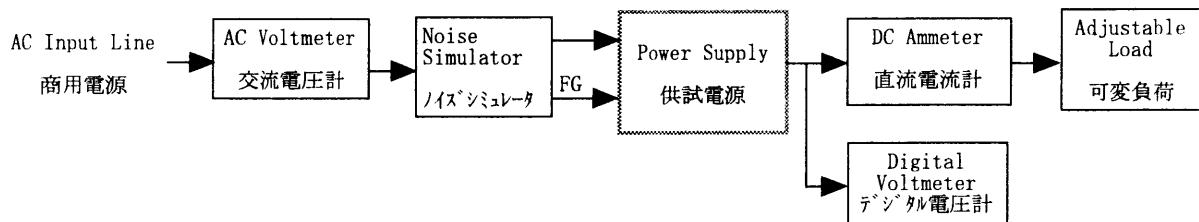


Figure C

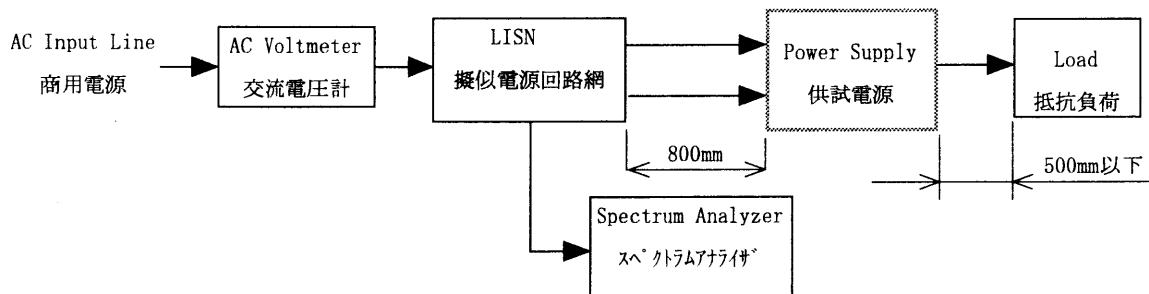


Figure D

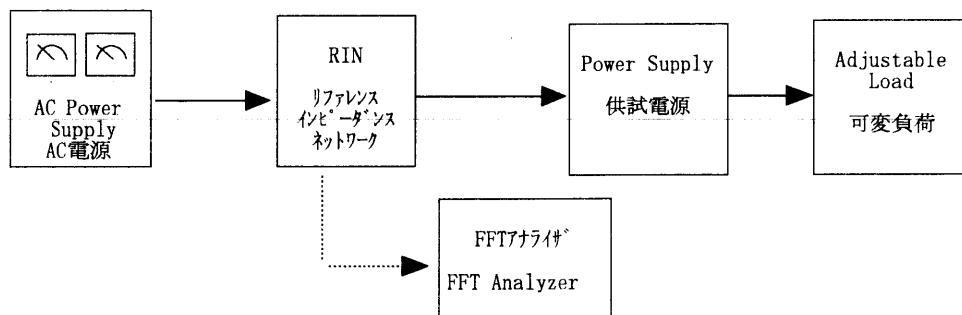


Figure E