



TEST DATA OF LCA15S-5 (100V INPUT)

Regulated DC Power Supply

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コーセル株式会社
COSEL CO., LTD.

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Model		LCA15S-5		Temperature Testing Circuitry	25℃ Figure A
Item		Line Regulation 静的入力変動			
Object		+5.0V3A			
1. Graph					
		<div><div>□</div>Load 50%</div> <div><div>△</div>Load 100%</div>			
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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Model		LCA15S-5		Temperature		25℃	
Item		Input Current (by Load Current) 入力電流（負荷特性）		Testing Circuitry		Figure A	
Output		_____					

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Input Current [A]

0.5

0.4

0.3

0.2

0.1

0

0

1

2

3

4

Load Current [A]

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 [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	0.032	0.029	0.026
0.6	0.110	0.104	0.097
1.2	0.178	0.162	0.144
1.8	0.248	0.222	0.190
2.4	0.321	0.284	0.237
3.0	0.395	0.347	0.285
3.3	0.433	0.380	0.310
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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Model		LCA15S-5		Temperature		25℃																																																								
Item		Input Power (by Load Current) 入力電力（負荷特性）		Testing Circuitry		Figure A																																																								
Output		_____																																																												
1. Graph				2. Values																																																										
<div><div>—△—</div>Input Volt. 85V</div> <div><div>—□—</div>Input Volt. 100V</div> <div><div>—○—</div>Input Volt. 132V</div> <div><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></div>				<table><tr><th rowspan="2">Load Current</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>1.13</td><td>1.15</td><td>1.24</td></tr><tr><td>0.6</td><td>4.93</td><td>5.28</td><td>6.11</td></tr><tr><td>1.2</td><td>8.65</td><td>8.90</td><td>9.70</td></tr><tr><td>1.8</td><td>12.64</td><td>12.73</td><td>13.30</td></tr><tr><td>2.4</td><td>16.83</td><td>16.77</td><td>17.08</td></tr><tr><td>3.0</td><td>21.21</td><td>20.97</td><td>21.02</td></tr><tr><td>3.3</td><td>23.54</td><td>23.19</td><td>23.11</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	1.13	1.15	1.24	0.6	4.93	5.28	6.11	1.2	8.65	8.90	9.70	1.8	12.64	12.73	13.30	2.4	16.83	16.77	17.08	3.0	21.21	20.97	21.02	3.3	23.54	23.19	23.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Item		Efficiency 効率		Testing Circuitry		Figure A																																	
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1. Graph				2. Values																																			
<div><div>□ Load 50%</div><div>△ Load 100%</div></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 [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>72.4</td><td>70.9</td></tr><tr><td>80</td><td>72.6</td><td>71.6</td></tr><tr><td>85</td><td>72.4</td><td>72.2</td></tr><tr><td>90</td><td>72.0</td><td>72.6</td></tr><tr><td>100</td><td>71.3</td><td>73.2</td></tr><tr><td>110</td><td>70.2</td><td>73.2</td></tr><tr><td>120</td><td>69.0</td><td>73.1</td></tr><tr><td>132</td><td>67.1</td><td>73.0</td></tr><tr><td>140</td><td>65.8</td><td>72.6</td></tr></table>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	72.4	70.9	80	72.6	71.6	85	72.4	72.2	90	72.0	72.6	100	71.3	73.2	110	70.2	73.2	120	69.0	73.1	132	67.1	73.0	140	65.8	72.6
Input Voltage [V]	Efficiency [%]																																						
	Load 50%	Load 100%																																					
75	72.4	70.9																																					
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COSEL

Model		LCA15S-5	
Item		Efficiency (by Load Current) 効率 (負荷電流特性)	
Output		_____	

1. Graph

—△—

Input Volt. 85V

—□—

Input Volt. 100V

—○—

Input Volt. 132V

Efficiency [%]

Load Current [A]	85V [%]	100V [%]	132V [%]
0.6	61.5	57.4	49.7
1.2	70.8	69.0	63.1
1.8	72.8	72.3	69.2
2.4	72.9	73.0	71.8
3.0	72.0	72.9	72.7
3.3	71.5	72.6	72.8
4.0	71.5	72.6	72.8

Load Current [A]

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 [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.6	61.5	57.4	49.7
1.2	70.8	69.0	63.1
1.8	72.8	72.3	69.2
2.4	72.9	73.0	71.8
3.0	72.0	72.9	72.7
3.3	71.5	72.6	72.8
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COSEL

Model		LCA15S-5		Temperature Testing Circuitry	25℃ Figure A																																
Item		Hold-Up Time 出力保持時間																																			
Object		+5.0V3A																																			
1. Graph				2. Values																																	
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>Hold-Up Time [mS]</div><div><div>1000</div><div>100</div><div>10</div><div>1</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>				<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>38</td><td>12</td></tr><tr><td>80</td><td>44</td><td>15</td></tr><tr><td>85</td><td>51</td><td>18</td></tr><tr><td>90</td><td>58</td><td>22</td></tr><tr><td>100</td><td>73</td><td>29</td></tr><tr><td>110</td><td>89</td><td>38</td></tr><tr><td>120</td><td>107</td><td>47</td></tr><tr><td>132</td><td>131</td><td>59</td></tr><tr><td>140</td><td>148</td><td>68</td></tr></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	38	12	80	44	15	85	51	18	90	58	22	100	73	29	110	89	38	120	107	47	132	131	59	140	148	68
Input Voltage [V]	Hold-Up Time [mS]																																				
	Load 50%	Load 100%																																			
75	38	12																																			
80	44	15																																			
85	51	18																																			
90	58	22																																			
100	73	29																																			
110	89	38																																			
120	107	47																																			
132	131	59																																			
140	148	68																																			
<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>																																					

COSEL

Model		LCA15S-5		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		+5.0V3A																																																								
1. Graph				2. Values																																																						
<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>Instantaneous Compensation Time</div><div>[mS]</div></div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div>Load Current</div><div>[A]</div></div></div> <div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note:Slanted line shows the range of the rated load current.</div></div> <div><div>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。</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">Time [mS]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.6</td><td>123</td><td>169</td><td>285</td></tr><tr><td>1.2</td><td>62</td><td>89</td><td>160</td></tr><tr><td>1.8</td><td>35</td><td>53</td><td>102</td></tr><tr><td>2.4</td><td>22</td><td>31</td><td>73</td></tr><tr><td>3.0</td><td>12</td><td>22</td><td>51</td></tr><tr><td>3.3</td><td>5</td><td>14</td><td>43</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	—	—	—	0.6	123	169	285	1.2	62	89	160	1.8	35	53	102	2.4	22	31	73	3.0	12	22	51	3.3	5	14	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Time [mS]																																																									
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
0.0	—	—	—																																																							
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COSEL

Model		LCA15S-5		Temperature		25℃																																																
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																																
Object		+5.0V3A																																																				
1. Graph				2. Values																																																		
<div><div><div>△</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>Input Volt. 132 V</div></div></div> <div><div><div>[V]</div><div><div>5.230</div><div>5.190</div><div>5.150</div><div>5.110</div><div>5.070</div><div>5.030</div><div>4.990</div><div>0</div></div><div>Output Voltage</div></div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div><div>Load Current</div><div>[A]</div></div></div>				<table><tr><th rowspan="2">Load Current</th><th colspan="3">Output Voltage</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>5.101</td><td>5.100</td><td>5.093</td></tr><tr><td>0.6</td><td>5.099</td><td>5.099</td><td>5.099</td></tr><tr><td>1.2</td><td>5.097</td><td>5.097</td><td>5.097</td></tr><tr><td>1.8</td><td>5.094</td><td>5.095</td><td>5.095</td></tr><tr><td>2.4</td><td>5.092</td><td>5.092</td><td>5.092</td></tr><tr><td>3.0</td><td>5.089</td><td>5.090</td><td>5.090</td></tr><tr><td>3.3</td><td>5.088</td><td>5.088</td><td>5.088</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current	Output Voltage			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	5.101	5.100	5.093	0.6	5.099	5.099	5.099	1.2	5.097	5.097	5.097	1.8	5.094	5.095	5.095	2.4	5.092	5.092	5.092	3.0	5.089	5.090	5.090	3.3	5.088	5.088	5.088	—	—	—	—	—	—	—	—	—	—	—	—
Load Current	Output Voltage																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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<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>																																																						

COSEL

Model

LCA15S-5

Item

Ripple Voltage (by Load Current)
リップル電圧 (負荷電流特性)

Object

+5.0V3A

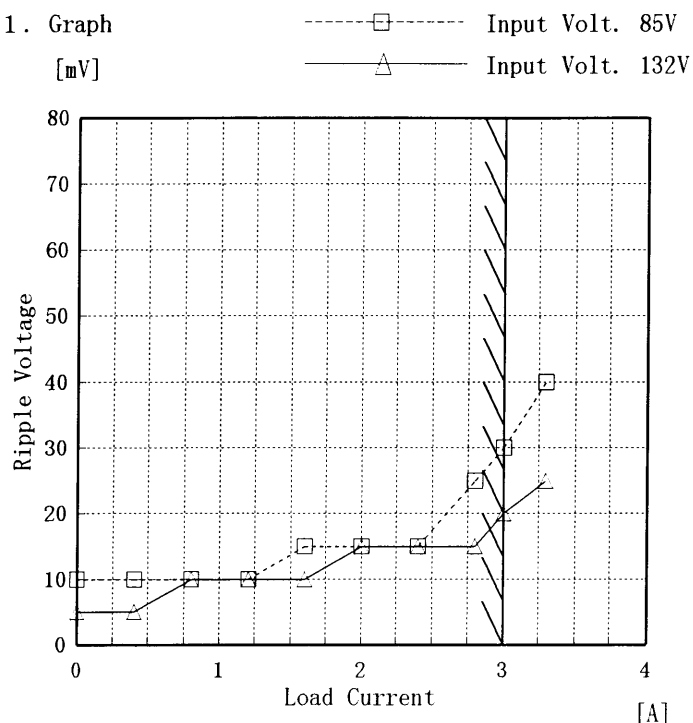
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.00	10	5
0.40	10	5
0.80	10	10
1.20	10	10
1.60	15	10
2.00	15	15
2.40	15	15
2.80	25	15
3.00	30	20
3.30	40	25
—	—	—

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。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング周期

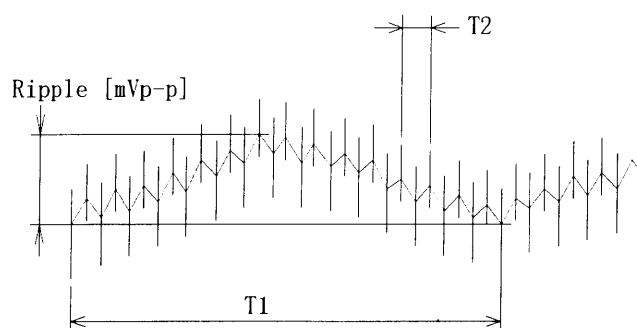


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

COSEL

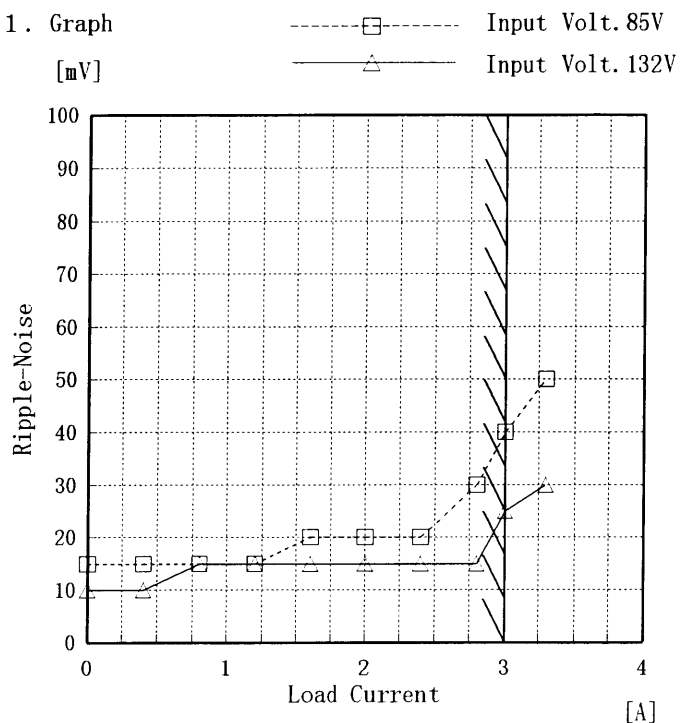
Model LCA15S-5

Item Ripple-Noise リップルノイズ

Object +5.0V3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

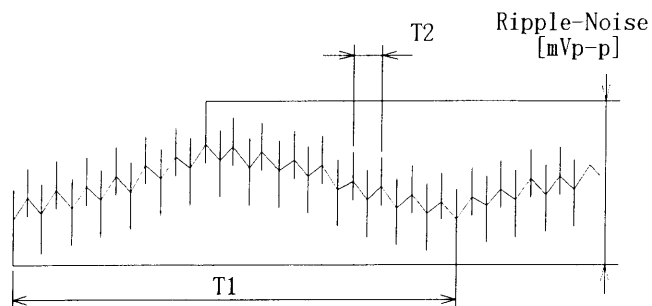


Ripple-Noise is shown as p-p in the figure below.

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。

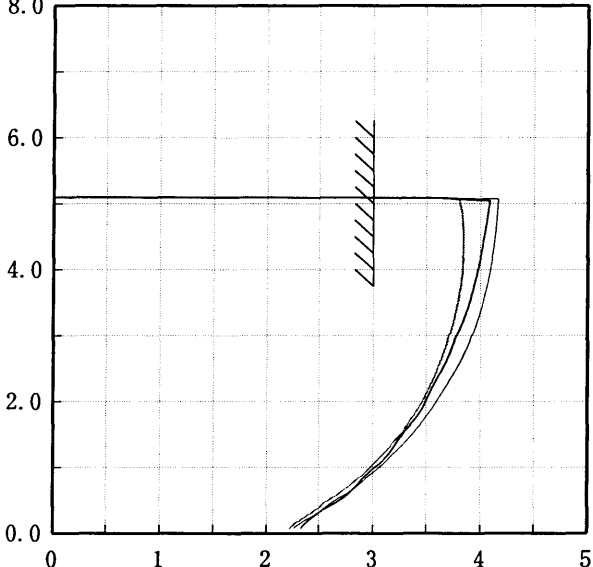
(注)斜線は定格負荷電流範囲を示す。

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

2. Values

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.00	15	10
0.40	15	10
0.80	15	15
1.20	15	15
1.60	20	15
2.00	20	15
2.40	20	15
2.80	30	15
3.00	40	25
3.30	50	30
—	—	—

COSEL

COSEL																																																										
Model	LCA15S-5	Temperature 25℃																																																								
Item	Overcurrent Protection 過電流保護	Testing Circuitry Figure A																																																								
Object	+5.0V3A																																																									
1. Graph		2. Values																																																								
[V]	<div><div></div>Input Volt. 85 V</div> <div><div></div>Input Volt. 100 V</div> <div><div></div>Input Volt. 132 V</div>																																																									
<div><div>Output Voltage</div><div>[V]</div></div>	 <div><div>Load Current</div><div>[A]</div></div>	<table><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><tr><td>5.00</td><td>3.81</td><td>4.18</td><td>4.09</td></tr><tr><td>4.75</td><td>3.83</td><td>4.16</td><td>4.07</td></tr><tr><td>4.50</td><td>3.84</td><td>4.15</td><td>4.04</td></tr><tr><td>4.00</td><td>3.83</td><td>4.10</td><td>3.98</td></tr><tr><td>3.50</td><td>3.80</td><td>4.03</td><td>3.90</td></tr><tr><td>3.00</td><td>3.72</td><td>3.92</td><td>3.79</td></tr><tr><td>2.50</td><td>3.62</td><td>3.79</td><td>3.68</td></tr><tr><td>2.00</td><td>3.48</td><td>3.62</td><td>3.50</td></tr><tr><td>1.50</td><td>3.26</td><td>3.37</td><td>3.28</td></tr><tr><td>1.00</td><td>2.98</td><td>3.08</td><td>3.04</td></tr><tr><td>0.50</td><td>2.59</td><td>2.65</td><td>2.69</td></tr><tr><td>0.00</td><td>2.20</td><td>2.25</td><td>2.32</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	5.00	3.81	4.18	4.09	4.75	3.83	4.16	4.07	4.50	3.84	4.15	4.04	4.00	3.83	4.10	3.98	3.50	3.80	4.03	3.90	3.00	3.72	3.92	3.79	2.50	3.62	3.79	3.68	2.00	3.48	3.62	3.50	1.50	3.26	3.37	3.28	1.00	2.98	3.08	3.04	0.50	2.59	2.65	2.69	0.00	2.20	2.25	2.32
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
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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。

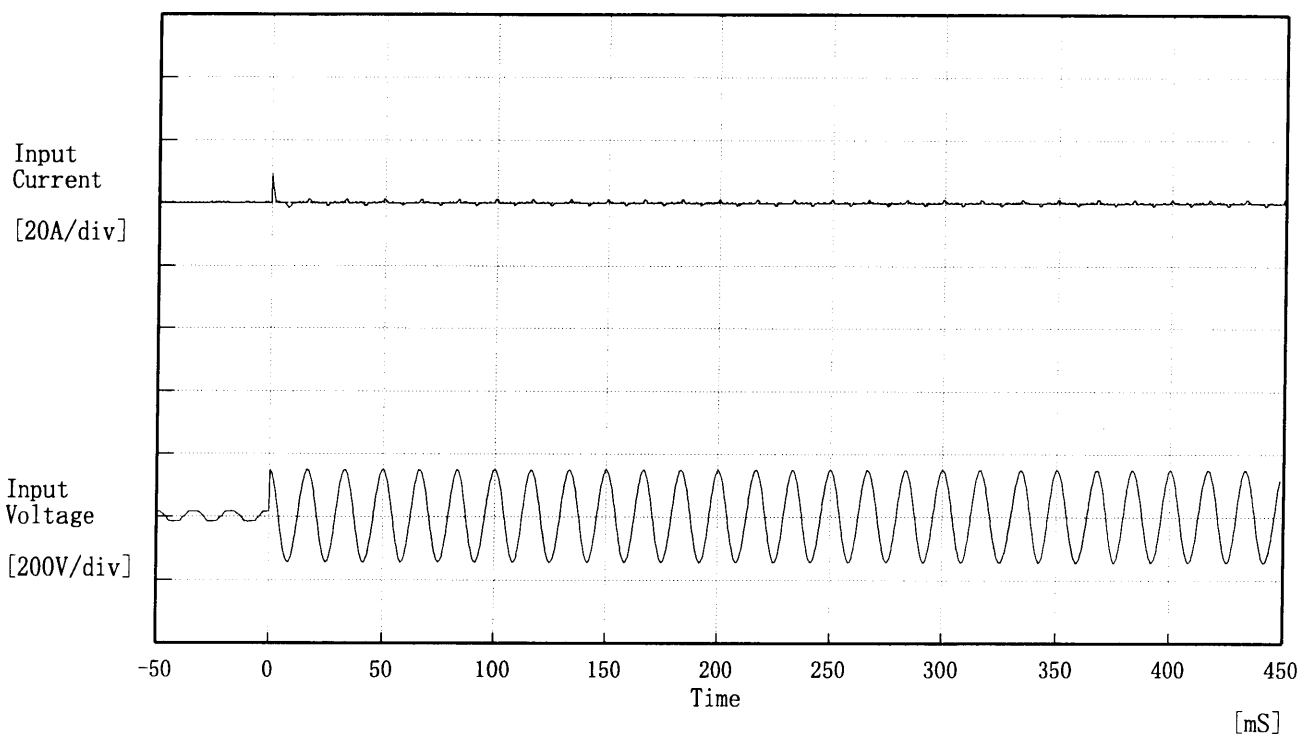
COSEL

Model LCA15S-5

Item Inrush Current 突入電流

Temperature 25℃
Testing Circuitry Figure A

Object



Input Voltage 100 V

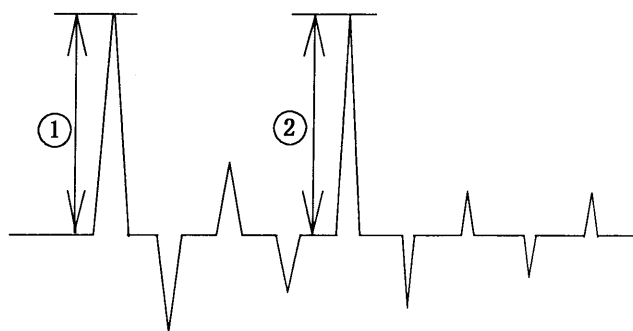
Frequency 60 Hz

Load 100 %

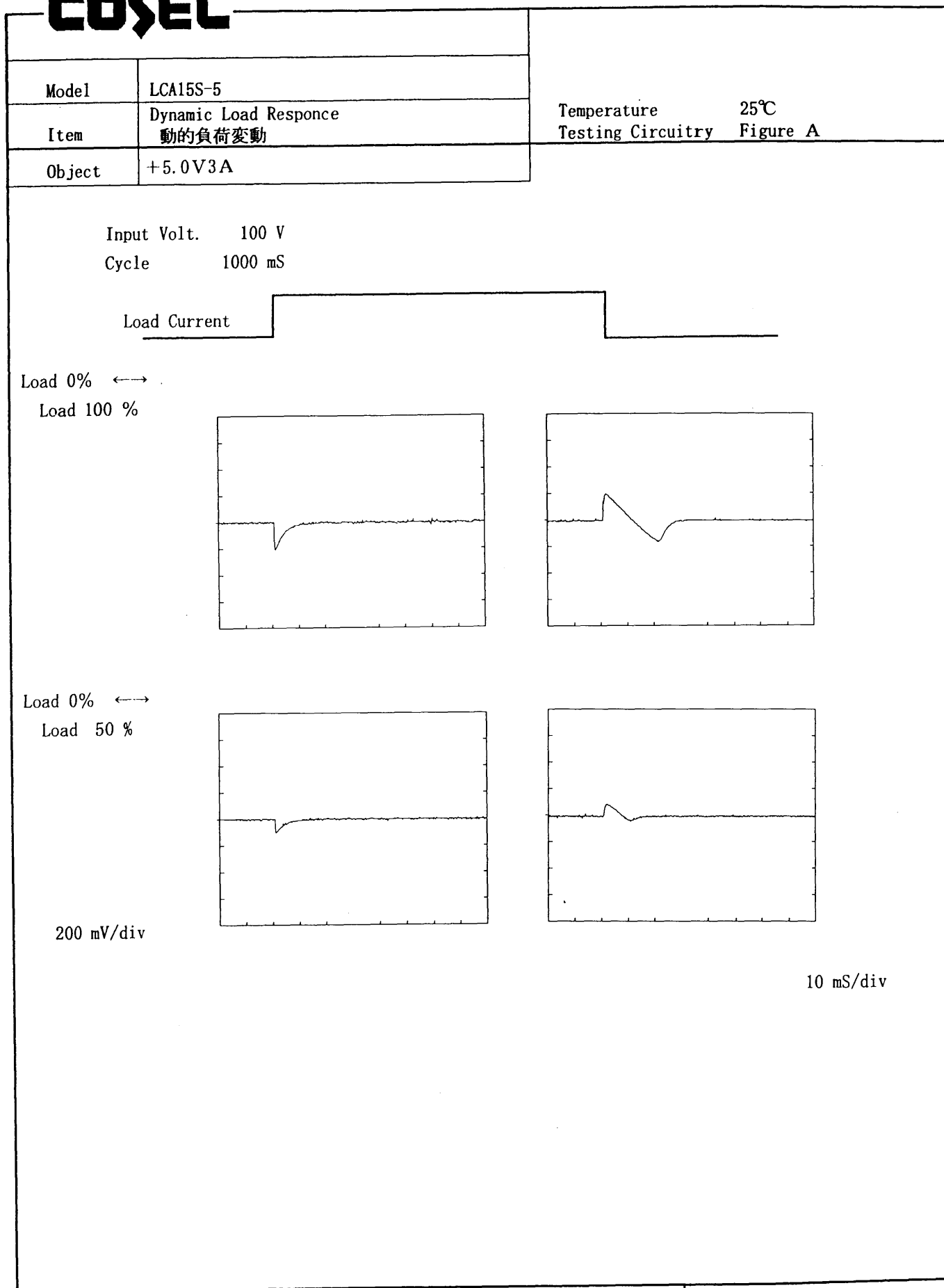
Inrush Current

① 9.18 [A]

② 1.18 [A]



COSEL



COSEL

Model LCA15S-5

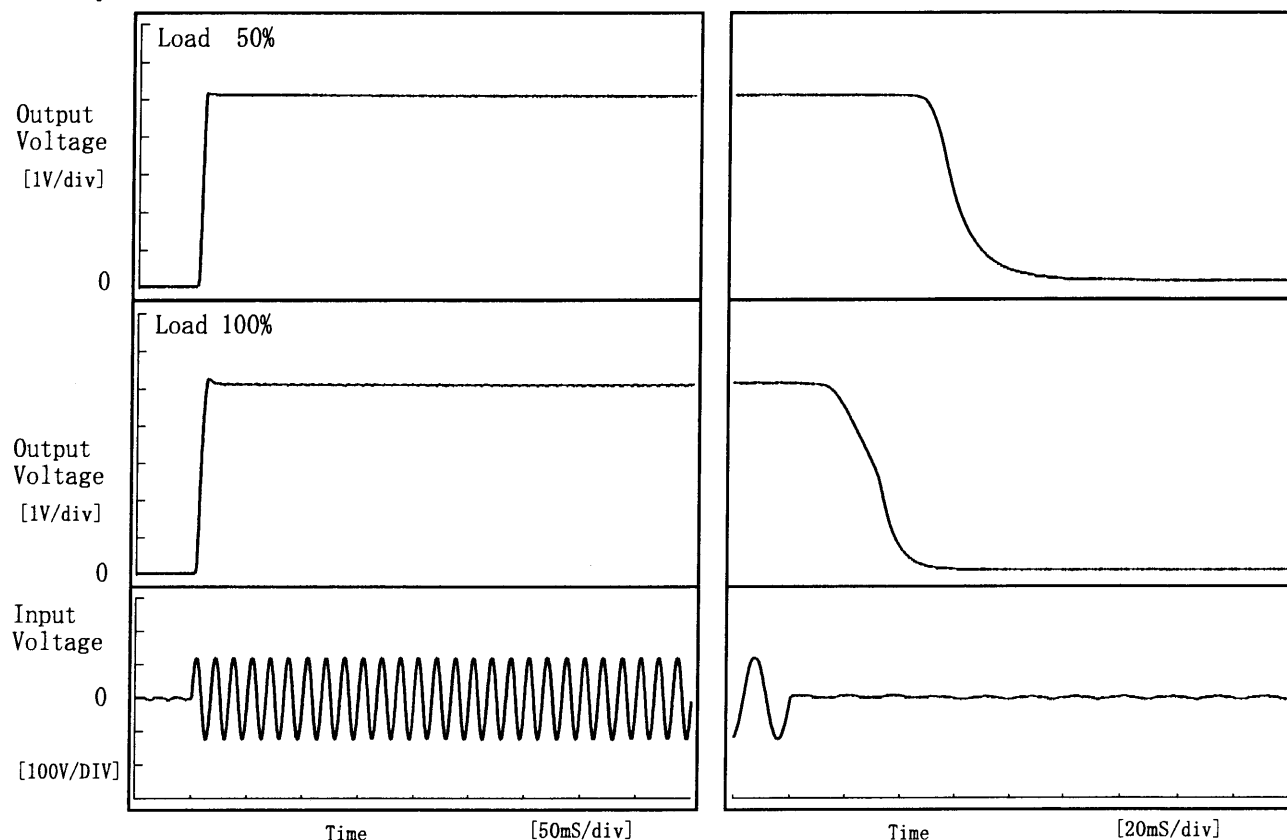
Item Rise and Fall Time 立上り、立下り時間

Object +5.0V3A

Temperature 25℃
Testing Circuitry Figure A

1. Graph

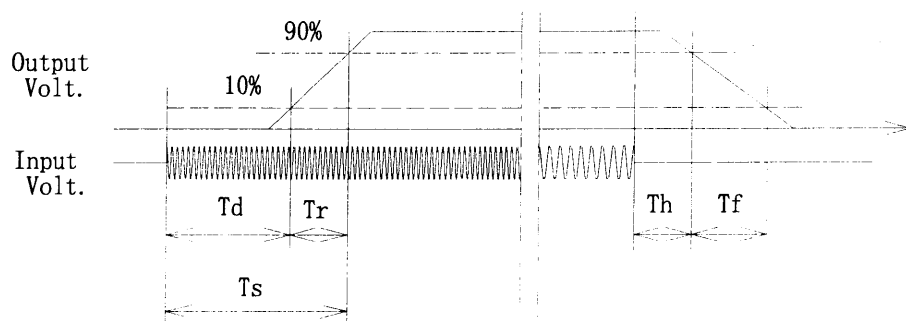
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.5	4.8	8.3	51.5	25.6
100 %	3.8	6.0	9.8	19.3	23.0



COSEL

COSEL	
Model	LCA15S-5
Item	Ambient Temperature Drift 周囲温度変動
Object	+5.0V3A

1. Graph

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Output Voltage

[V]

5.230

5.190

5.150

5.110

5.070

5.030

4.990

0

-30

-10

10

30

50

70

Ambient Temperature

[°C]

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。

2. Values

Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	5.087	5.088	5.089
-10	5.089	5.090	5.090
0	5.090	5.091	5.091
10	5.090	5.091	5.091
20	5.090	5.090	5.090
25	5.089	5.089	5.090
30	5.089	5.089	5.089
40	5.087	5.088	5.088
50	5.085	5.086	5.086
60	5.083	5.083	5.083
—	—	—	—

COSEL

Model			LCA15S-5		
Item			Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧		
Object			+5.0V3A		
1. Graph			2. Values		

□

Load 50%

△

Load 100%

Input Voltage [V]

</

COSEL

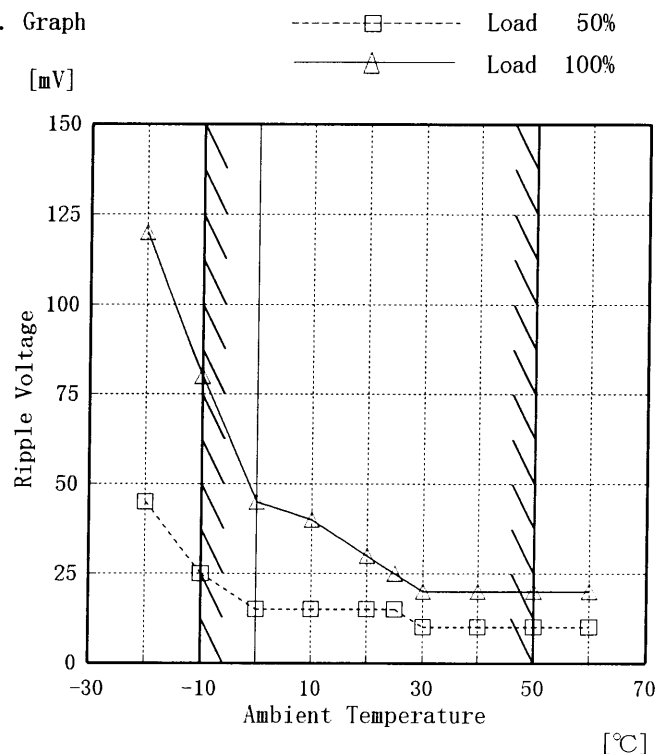
Model LCA15S-5

Item Ripple Voltage (by Ambient Temp.)
リップル電圧 (周囲温度特性)

Object +5.0V3A

Testing Circuitry Figure A

1. Graph



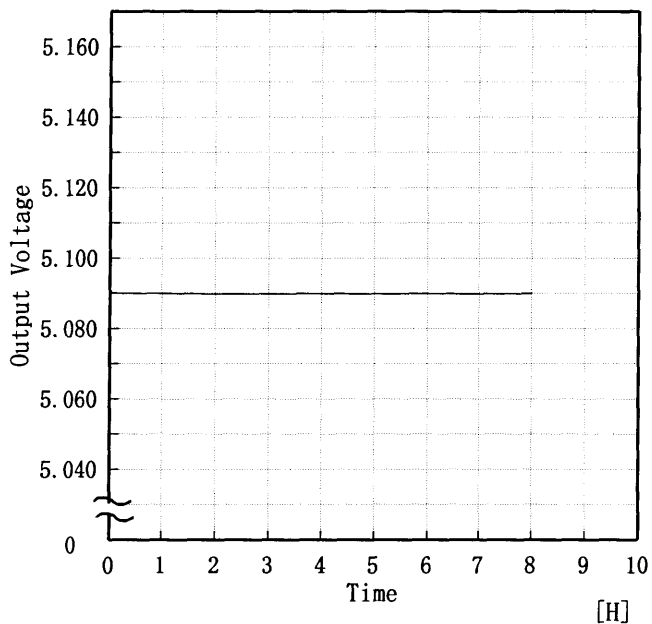
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	45	120
-10	25	80
0	15	45
10	15	40
20	15	30
25	15	25
30	10	20
40	10	20
50	10	20
60	10	20
—	—	—

COSEL

COSEL																									
Model	LCA15S-5																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
		Testing Circuitry	Figure A																						
Object	+5.0V3A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.091</td></tr><tr><td>0.5</td><td>5.090</td></tr><tr><td>1.0</td><td>5.090</td></tr><tr><td>2.0</td><td>5.090</td></tr><tr><td>3.0</td><td>5.090</td></tr><tr><td>4.0</td><td>5.090</td></tr><tr><td>5.0</td><td>5.090</td></tr><tr><td>6.0</td><td>5.090</td></tr><tr><td>7.0</td><td>5.090</td></tr><tr><td>8.0</td><td>5.090</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.091	0.5	5.090	1.0	5.090	2.0	5.090	3.0	5.090	4.0	5.090	5.0	5.090	6.0	5.090	7.0	5.090	8.0	5.090
Time since start [H]	Output Voltage [V]																								
0.0	5.091																								
0.5	5.090																								
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3.0	5.090																								
4.0	5.090																								
5.0	5.090																								
6.0	5.090																								
7.0	5.090																								
8.0	5.090																								

COSEL

Model		LCA15S-5	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+5.0V3A	

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 A

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

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

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 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) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ratio) [%]
Maximum Voltage	-10	85	0	5.102	±9	±0.2
Minimum Voltage	50	132	3	5.085		

Model		LCA15S-5	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current 漏洩電流	
Object		_____	

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.08	0.08	0.11
(B) IEC60950	0.08	0.09	0.11

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	—	—	—

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力の一相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model	LCA15S-5		
Item	Line Noise Tolerance 入力雑音耐量	Temperature Testing Circuitry	25℃ Figure C
Object	+5.0V3A		

1. Results

Pulse Width [nS]	MODE	No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

2. Conditions

Input Voltage : 100 V
 Pulse Voltage : 2000 V
 Pulse Cycle : 10 mS
 Pulse Input Duration : 1 min. or more
 Load : 100 %

COSEL

Model	LCA15S-5	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

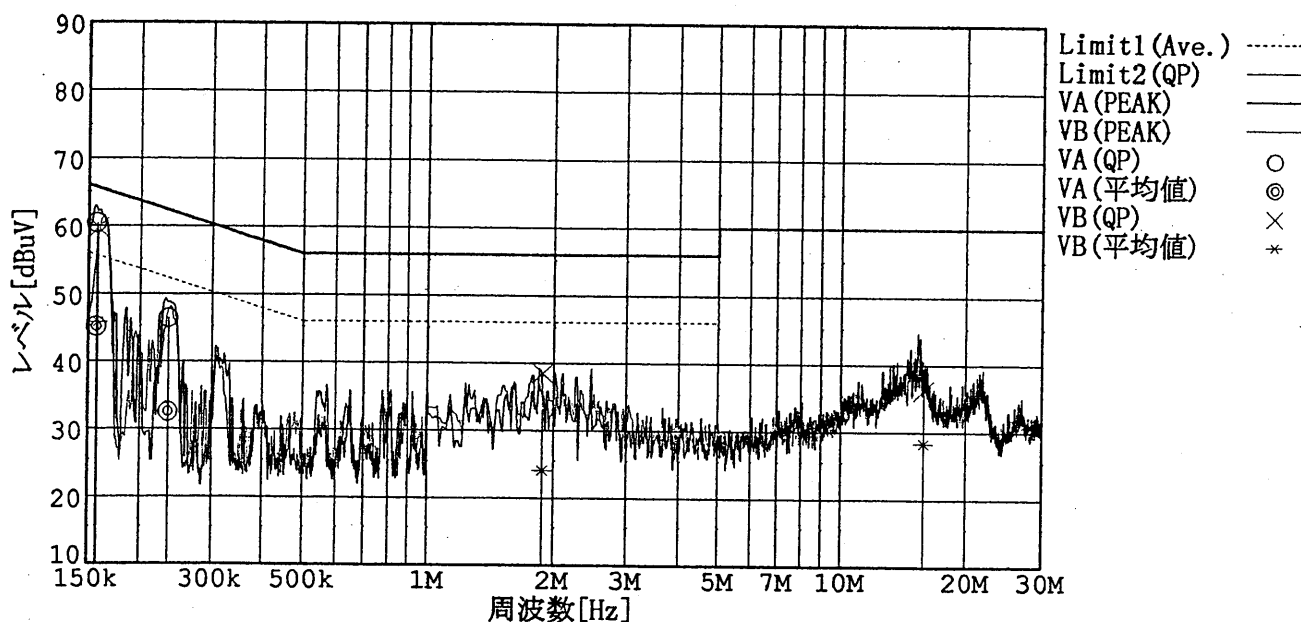
1. Graph

Remarks

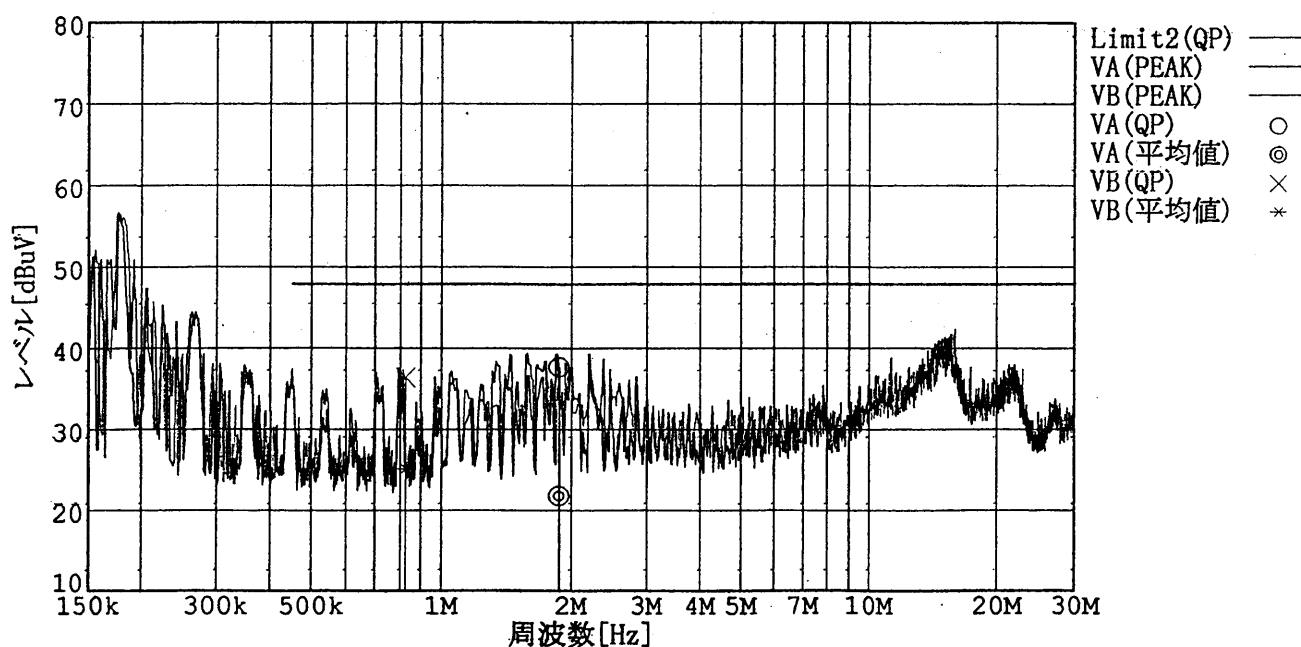
Input Volt. 100 V (VCCI Class B)
120 V (FCC Class B)
Load 100 %

規格 1: [VCCI] Class B(平均値)

規格 2: [VCCI] Class B(QP)



規格 2: [FCC Part15] Class B



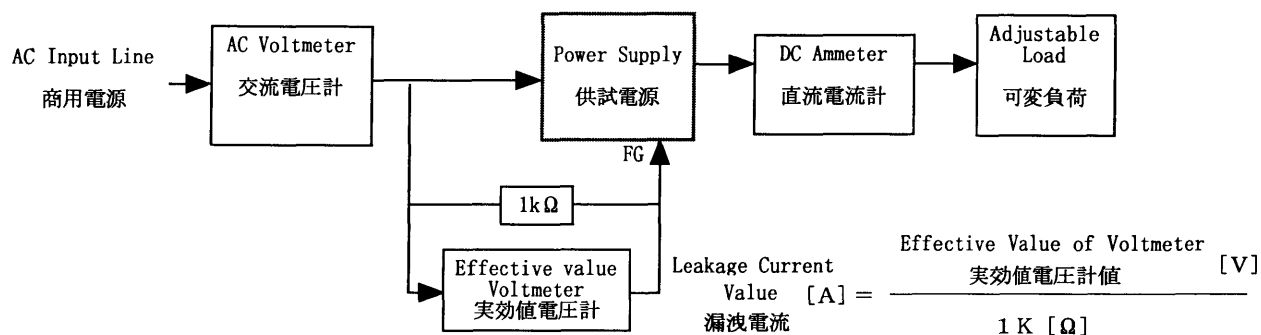
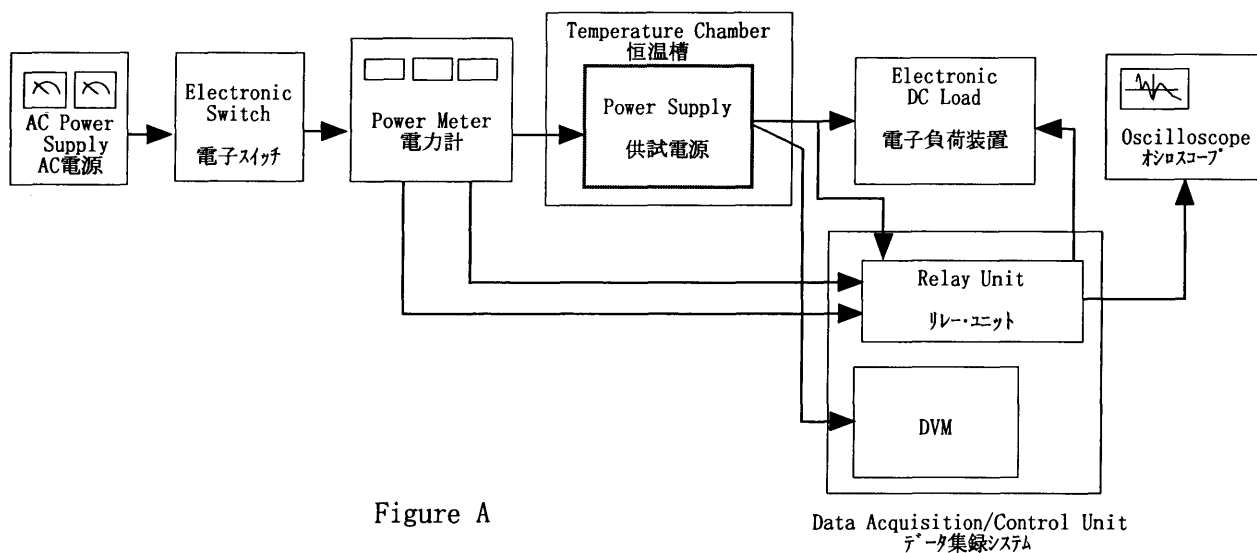


Figure B (DENTORI)

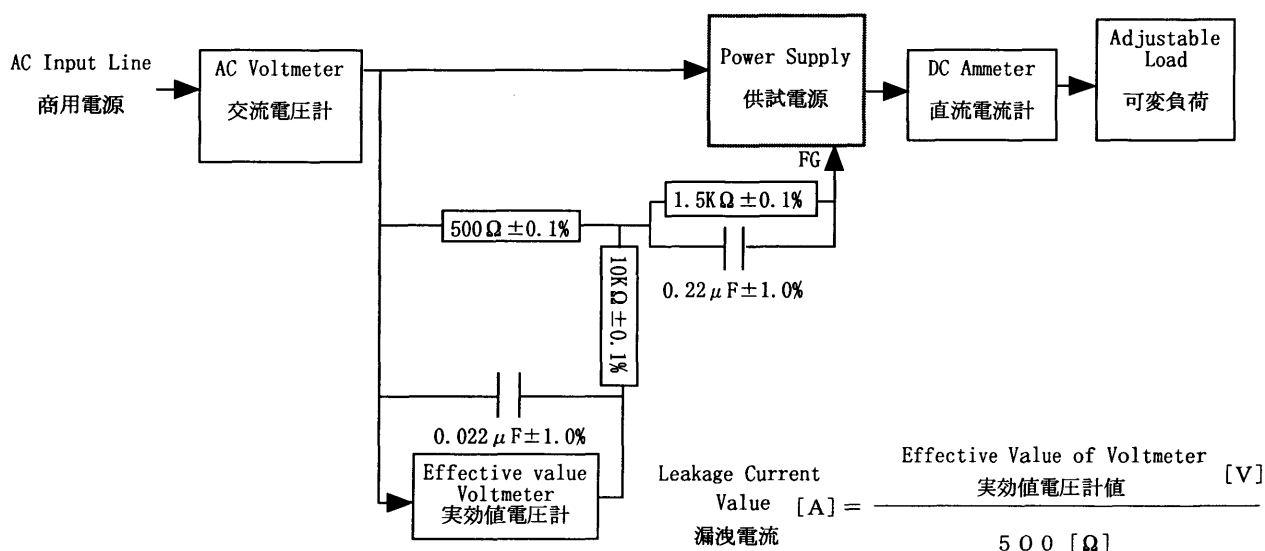


Figure B (IEC 60950)

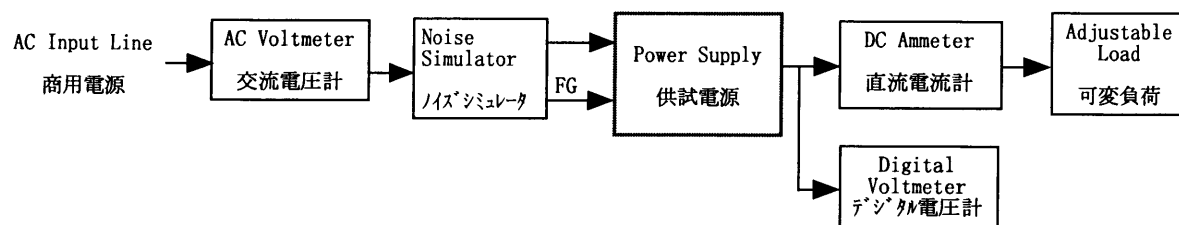


Figure C

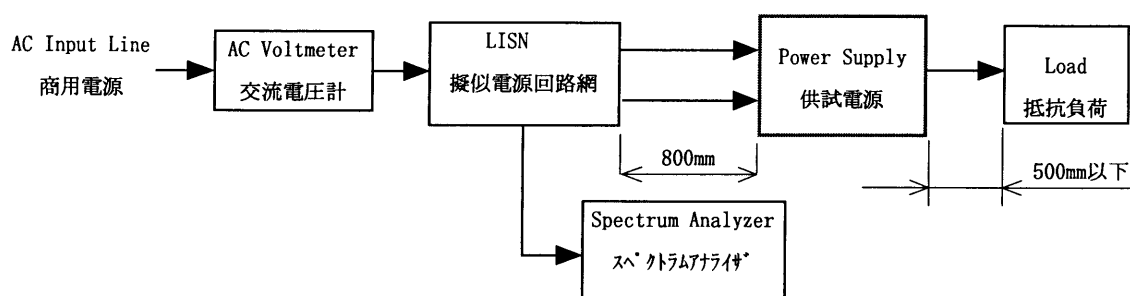


Figure D

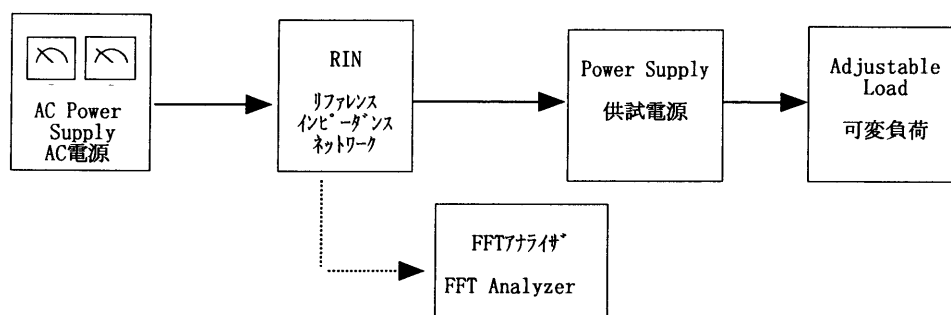


Figure E