



# TEST DATA OF LCA15S-12 (100V INPUT)

Regulated DC Power Supply

Date : June 17. 1999

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**コーセル株式会社**  
**COSEL CO., LTD.**

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Model		LCA15S-12		Temperature Testing Circuitry	25℃ Figure A																																
Item		Line Regulation  静的入力変動																																			
Object		+12.0V1.3A																																			
1. Graph				2. Values																																	
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div><div>Output Voltage [V]</div><div><div><div>12.02</div><div>12.00</div><div>11.98</div><div>11.96</div><div>11.94</div><div>11.92</div><div>11.90</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><div>Input Voltage [V]</div></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>11.955</td><td>11.952</td></tr><tr><td>80</td><td>11.955</td><td>11.952</td></tr><tr><td>85</td><td>11.955</td><td>11.952</td></tr><tr><td>90</td><td>11.955</td><td>11.952</td></tr><tr><td>100</td><td>11.955</td><td>11.952</td></tr><tr><td>110</td><td>11.954</td><td>11.952</td></tr><tr><td>120</td><td>11.954</td><td>11.951</td></tr><tr><td>132</td><td>11.953</td><td>11.951</td></tr><tr><td>140</td><td>11.953</td><td>11.951</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	11.955	11.952	80	11.955	11.952	85	11.955	11.952	90	11.955	11.952	100	11.955	11.952	110	11.954	11.952	120	11.954	11.951	132	11.953	11.951	140	11.953	11.951
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<div><div>[W]</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div> <div><div>Load Current [A]</div><div>00.511.52</div></div>		<table><tr><th rowspan="2">Load Current [A]</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>0.00</td><td>1.60</td><td>1.78</td><td>1.76</td></tr><tr><td>0.20</td><td>4.43</td><td>4.86</td><td>5.99</td></tr><tr><td>0.40</td><td>7.19</td><td>7.58</td><td>8.58</td></tr><tr><td>0.60</td><td>10.04</td><td>10.34</td><td>11.28</td></tr><tr><td>0.80</td><td>12.95</td><td>13.14</td><td>13.92</td></tr><tr><td>1.00</td><td>16.04</td><td>16.11</td><td>16.73</td></tr><tr><td>1.20</td><td>19.06</td><td>19.02</td><td>19.44</td></tr><tr><td>1.30</td><td>20.56</td><td>20.45</td><td>20.78</td></tr><tr><td>1.43</td><td>22.76</td><td>22.56</td><td>22.76</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]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	1.60	1.78	1.76	0.20	4.43	4.86	5.99	0.40	7.19	7.58	8.58	0.60	10.04	10.34	11.28	0.80	12.95	13.14	13.92	1.00	16.04	16.11	16.73	1.20	19.06	19.02	19.44	1.30	20.56	20.45	20.78	1.43	22.76	22.56	22.76	—	—	—	—	—	—	—	—	—	—	—	—
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<p>1. Graph</p> <p>-----□----- Load 50%          -----△----- Load 100%</p> <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>		<p>2. Values</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>73.8</td><td>74.7</td></tr> <tr><td>80</td><td>73.5</td><td>75.4</td></tr> <tr><td>85</td><td>73.1</td><td>75.7</td></tr> <tr><td>90</td><td>72.7</td><td>75.9</td></tr> <tr><td>100</td><td>71.4</td><td>76.2</td></tr> <tr><td>110</td><td>69.8</td><td>76.0</td></tr> <tr><td>120</td><td>68.1</td><td>75.7</td></tr> <tr><td>132</td><td>65.8</td><td>74.9</td></tr> <tr><td>140</td><td>64.5</td><td>74.4</td></tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	73.8	74.7	80	73.5	75.4	85	73.1	75.7	90	72.7	75.9	100	71.4	76.2	110	69.8	76.0	120	68.1	75.7	132	65.8	74.9	140	64.5	74.4
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Model		LCA15S-12	Temperature Testing Circuitry	25℃ Figure A
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 [%]
0.20	55.1	50.6	41.1
0.40	67.1	64.2	56.2
0.60	72.3	70.4	64.5
0.80	74.8	73.8	69.7
1.00	75.5	75.2	72.6
1.20	75.6	75.9	74.4
1.30	75.7	76.2	74.9
1.43	75.5	76.3	75.6
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Load Current [A]

00.511.5

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]
0.20	55.1	50.6	41.1
0.40	67.1	64.2	56.2
0.60	72.3	70.4	64.5
0.80	74.8	73.8	69.7
1.00	75.5	75.2	72.6
1.20	75.6	75.9	74.4
1.30	75.7	76.2	74.9
1.43	75.5	76.3	75.6
—	—	—	—
—	—	—	—
—	—	—	—
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Model		LCA15S-12		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
Object		+12.0V1.3A																																					
1. Graph				2. Values																																			
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>Hold-Up Time</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>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 [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>47</td><td>13</td></tr><tr><td>80</td><td>54</td><td>16</td></tr><tr><td>85</td><td>61</td><td>19</td></tr><tr><td>90</td><td>69</td><td>23</td></tr><tr><td>100</td><td>86</td><td>30</td></tr><tr><td>110</td><td>105</td><td>39</td></tr><tr><td>120</td><td>125</td><td>48</td></tr><tr><td>132</td><td>150</td><td>60</td></tr><tr><td>140</td><td>168</td><td>69</td></tr></table>				Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	47	13	80	54	16	85	61	19	90	69	23	100	86	30	110	105	39	120	125	48	132	150	60	140	168	69
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<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><div>Output Voltage [V]</div><div><div>Load Current [A]</div></div></div></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>11.959</td><td>11.958</td><td>11.939</td></tr><tr><td>0.20</td><td>11.957</td><td>11.956</td><td>11.955</td></tr><tr><td>0.40</td><td>11.956</td><td>11.955</td><td>11.954</td></tr><tr><td>0.60</td><td>11.955</td><td>11.955</td><td>11.953</td></tr><tr><td>0.80</td><td>11.954</td><td>11.954</td><td>11.953</td></tr><tr><td>1.00</td><td>11.953</td><td>11.953</td><td>11.952</td></tr><tr><td>1.20</td><td>11.952</td><td>11.952</td><td>11.951</td></tr><tr><td>1.30</td><td>11.952</td><td>11.952</td><td>11.951</td></tr><tr><td>1.43</td><td>11.951</td><td>11.951</td><td>11.950</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	11.959	11.958	11.939	0.20	11.957	11.956	11.955	0.40	11.956	11.955	11.954	0.60	11.955	11.955	11.953	0.80	11.954	11.954	11.953	1.00	11.953	11.953	11.952	1.20	11.952	11.952	11.951	1.30	11.952	11.952	11.951	1.43	11.951	11.951	11.950	—	—	—	—
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
0.00	11.959	11.958	11.939																																																			
0.20	11.957	11.956	11.955																																																			
0.40	11.956	11.955	11.954																																																			
0.60	11.955	11.955	11.953																																																			
0.80	11.954	11.954	11.953																																																			
1.00	11.953	11.953	11.952																																																			
1.20	11.952	11.952	11.951																																																			
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1.43	11.951	11.951	11.950																																																			
—	—	—	—																																																			
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-12	Temperature		25°C
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry		Figure A
Object		+12.0V 1.3A			
1. Graph		<div> <div>-----□-----</div> <div>-----△-----</div> </div> <div> <div>Input Volt. 85V</div> <div>Input Volt. 132V</div> </div>	2. Values		
[mV]					
Ripple Voltage					
80					
70					
60					
50					
40					
30					
20					
10					
0					
0					
0.5					
1					
1.5					
Load Current		[A]			
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					
Ripple [mVp-p]					
T1					
T2					
Fig. Complex Ripple Wave Form					
図 リップル波形詳細図					

# COSEL

Model

LCA15S-12

Item

Ripple-Noise リップルノイズ

Object

+12.0V1.3A

Temperature

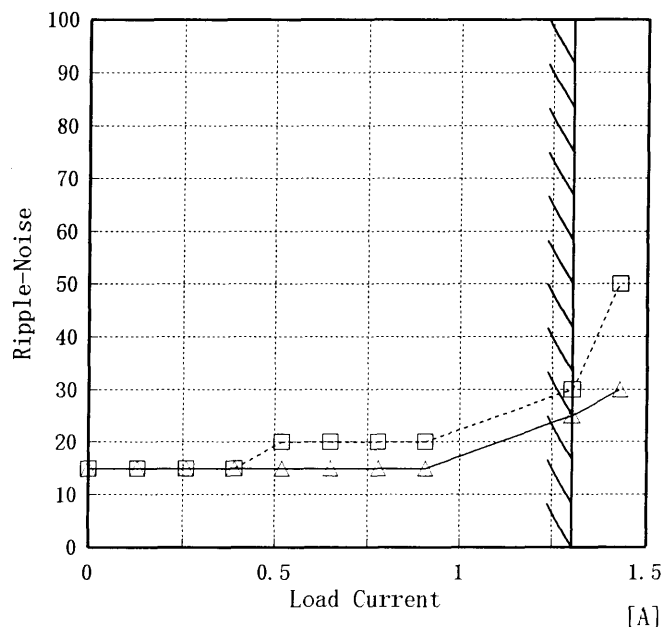
25°C

Testing Circuitry

Figure A

## 1. Graph

-----□----- Input Volt. 85V  
 -----△----- Input Volt. 132V



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

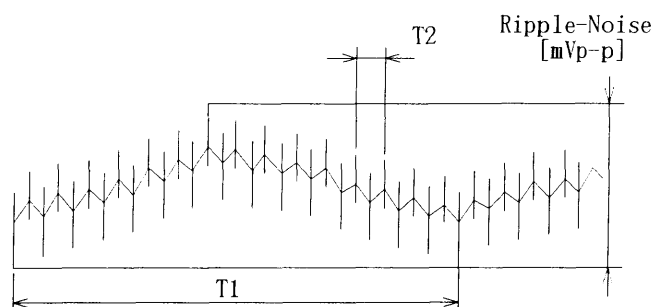


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

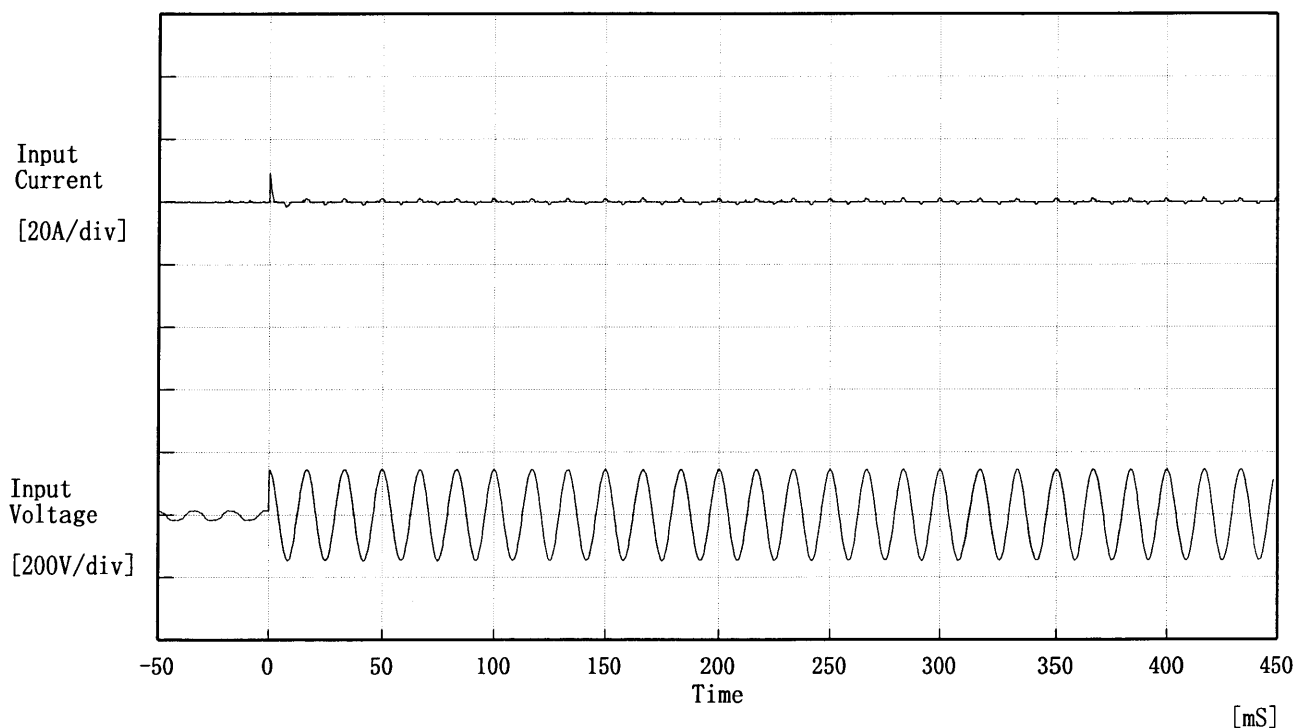
## 2. Values

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.00	15	15
0.13	15	15
0.26	15	15
0.39	15	15
0.52	20	15
0.65	20	15
0.78	20	15
0.91	20	15
1.30	30	25
1.43	50	30
—	—	—

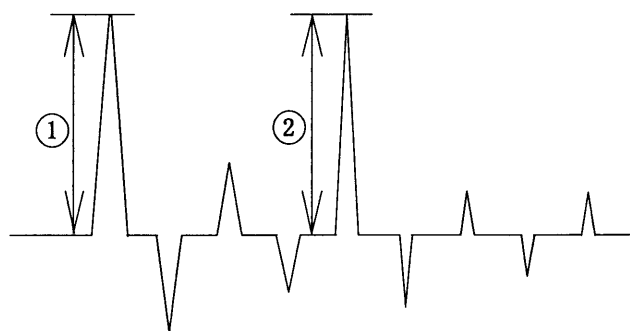


**COSEL**

Model	LCA15S-12	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V  
Frequency 60 Hz  
Load 100 %  
Inrush Current  
① 9.10 [A]  
② 1.50 [A]



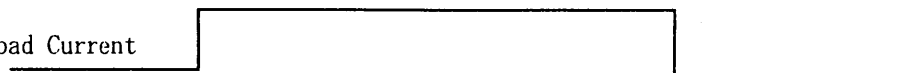
# COSEL

Model	LCA15S-12	Temperature 25℃ Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+12.0V 1.3A	

Input Volt. 100 V

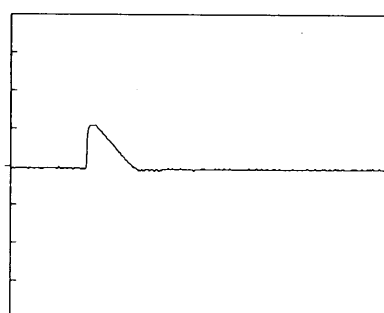
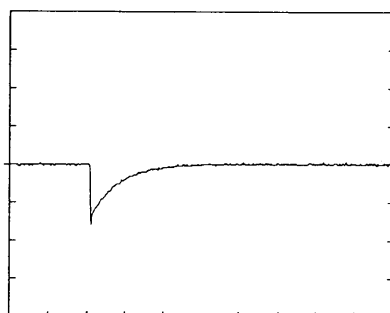
Cycle 1000 mS

Load Current



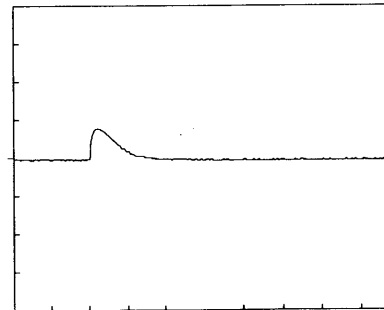
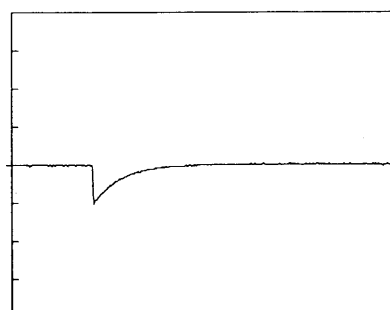
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

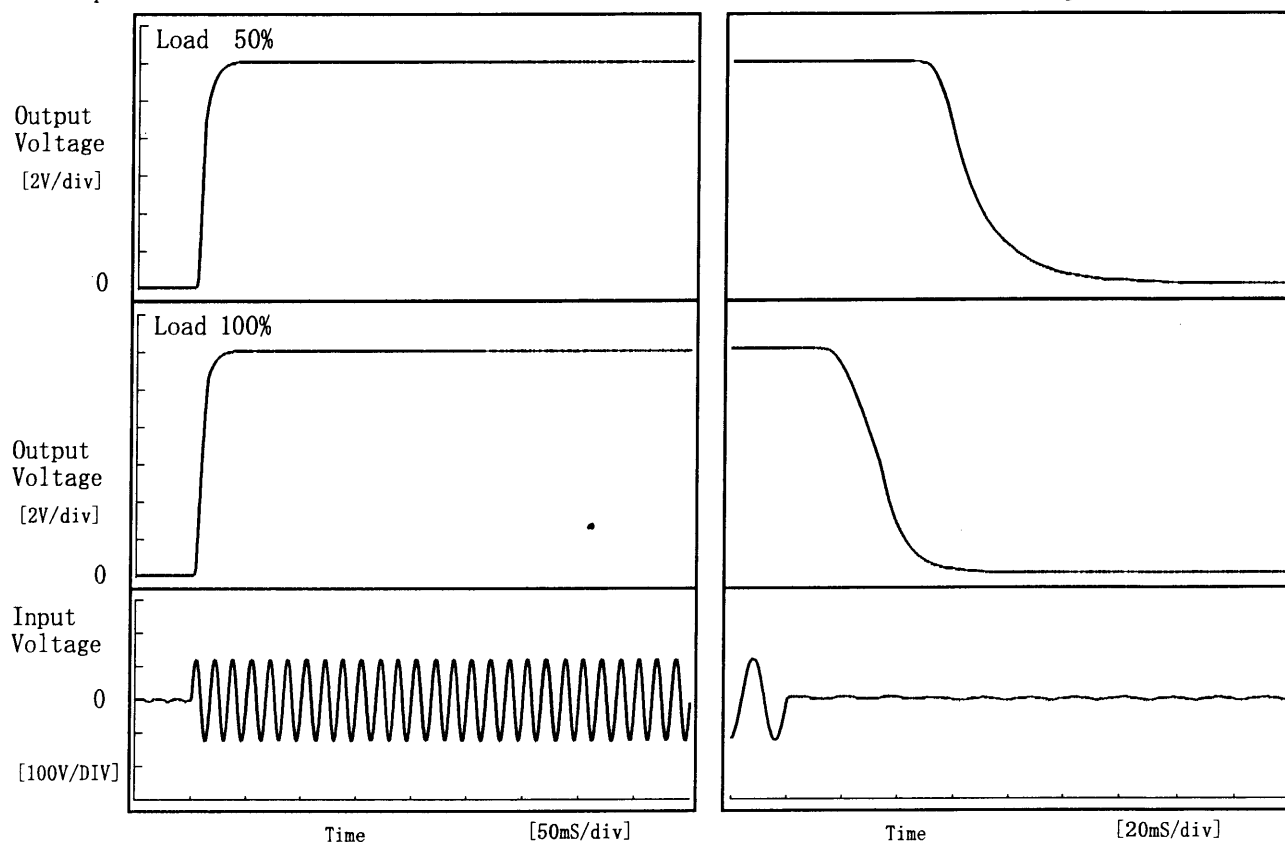
10 mS/div

# COSEL

Model	LCA15S-12	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V1.3A		

## 1. Graph

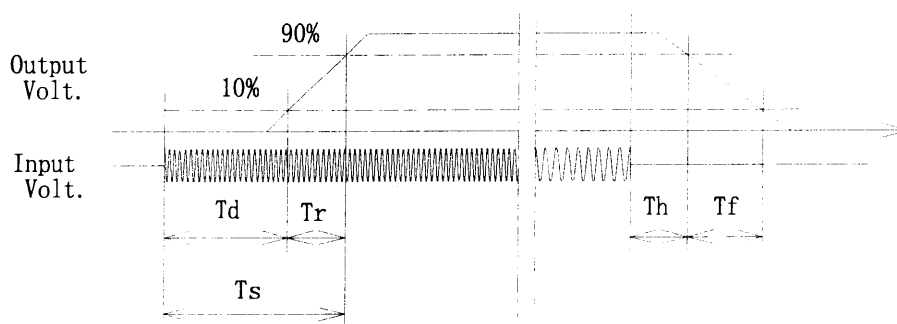
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.8	12.5	16.3	54.7	34.7
100 %	3.8	11.3	15.0	21.0	25.4





# COSEL

COSEL			
Model	LCA15S-12		
Item	Ambient Temperature Drift 周囲温度変動		
Object	+12.0V1.3A		
1. Graph		2. Values	
<div><div><div>△</div><div>—</div><div>Input Volt. 85V</div></div><div><div>□</div><div>- - -</div><div>Input Volt. 100V</div></div><div><div>○</div><div>· · ·</div><div>Input Volt. 132V</div></div></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><div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Model LCA15S-12		Testing Circuitry Figure A																																						
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object	+12.0V1.3A																																							
<p>1. Graph</p> <p>[V]</p> <p>100</p> <p>80</p> <p>60</p> <p>40</p> <p>20</p> <p>0</p> <p>Input Voltage</p> <p>-30 -10 10 30 50 70</p> <p>Ambient Temperature [°C]</p> <p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注)斜線は定格周囲温度範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>-20</td><td>34</td><td>63</td></tr> <tr><td>-10</td><td>34</td><td>62</td></tr> <tr><td>0</td><td>34</td><td>62</td></tr> <tr><td>10</td><td>34</td><td>61</td></tr> <tr><td>20</td><td>33</td><td>61</td></tr> <tr><td>25</td><td>33</td><td>61</td></tr> <tr><td>30</td><td>33</td><td>61</td></tr> <tr><td>40</td><td>33</td><td>61</td></tr> <tr><td>50</td><td>33</td><td>61</td></tr> <tr><td>60</td><td>34</td><td>61</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	34	63	-10	34	62	0	34	62	10	34	61	20	33	61	25	33	61	30	33	61	40	33	61	50	33	61	60	34	61	—	—	—
Ambient Temperature [°C]	Input Voltage [V]																																							
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# COSEL

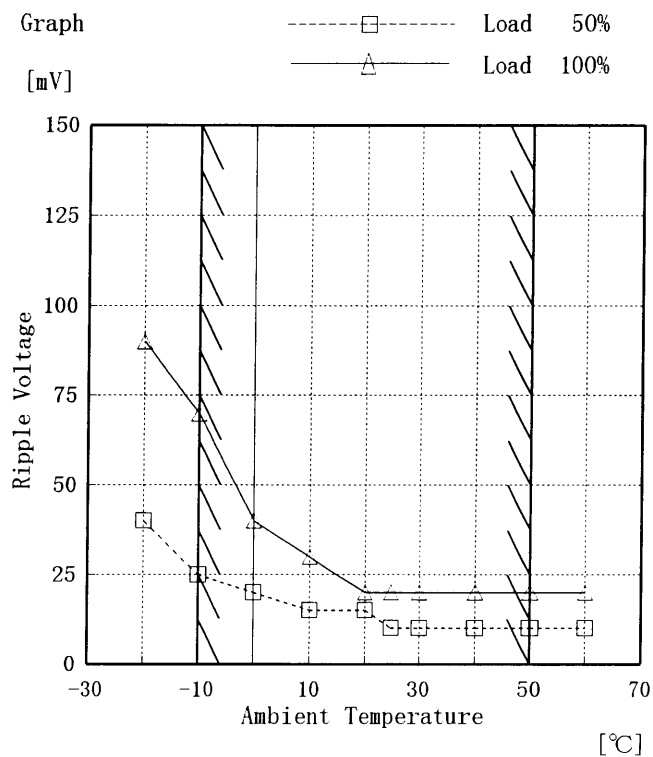
Model LCA15S-12

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

Object +12.0V 1.3A

Testing Circuitry Figure A

## 1. Graph



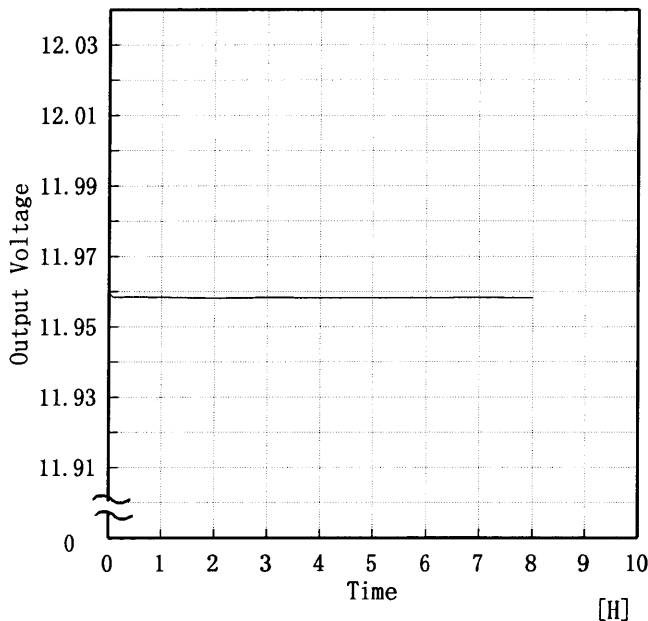
Note: Slanted line shows the range of the rated ambient temperature.

(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	40	90
-10	25	70
0	20	40
10	15	30
20	15	20
25	10	20
30	10	20
40	10	20
50	10	20
60	10	20
—	—	—

**COSEL**

COSEL																									
Model	LCA15S-12	Temperature 25℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+12.0V1.3A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time</div> <div>[H]</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>11.961</td></tr><tr><td>0.5</td><td>11.958</td></tr><tr><td>1.0</td><td>11.958</td></tr><tr><td>2.0</td><td>11.958</td></tr><tr><td>3.0</td><td>11.958</td></tr><tr><td>4.0</td><td>11.958</td></tr><tr><td>5.0</td><td>11.958</td></tr><tr><td>6.0</td><td>11.958</td></tr><tr><td>7.0</td><td>11.958</td></tr><tr><td>8.0</td><td>11.958</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	11.961	0.5	11.958	1.0	11.958	2.0	11.958	3.0	11.958	4.0	11.958	5.0	11.958	6.0	11.958	7.0	11.958	8.0	11.958
Time since start [H]	Output Voltage [V]																								
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Model		LCA15S-12	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+12.0V1.3A	

#### 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 : 0~1.3 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 0~1.3 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	11.962	±12	±0.1
Minimum Voltage	50	132	0	11.939		



Model	LCA15S-12	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
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	0.12

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 of 両相について測定し、その大きい方を漏洩電流測定値とする。

**COSEL**

Model	LCA15S-12		
Item	Line Noise Tolerance 入力雑音耐量	Temperature	25℃
Object	+12.0V1.3A	Testing Circuitry	Figure C

## 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-12	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

## 1. Graph

## Remarks

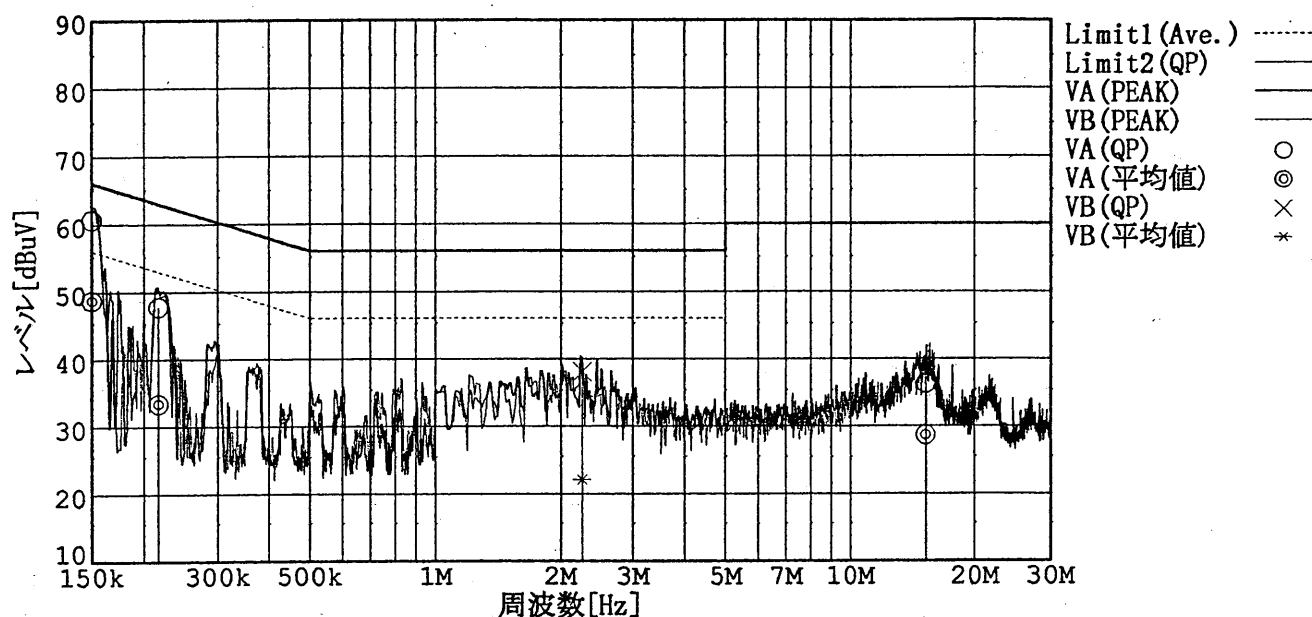
Input Volt. 100 V (VCCI Class B)

120 V (FCC Class B)

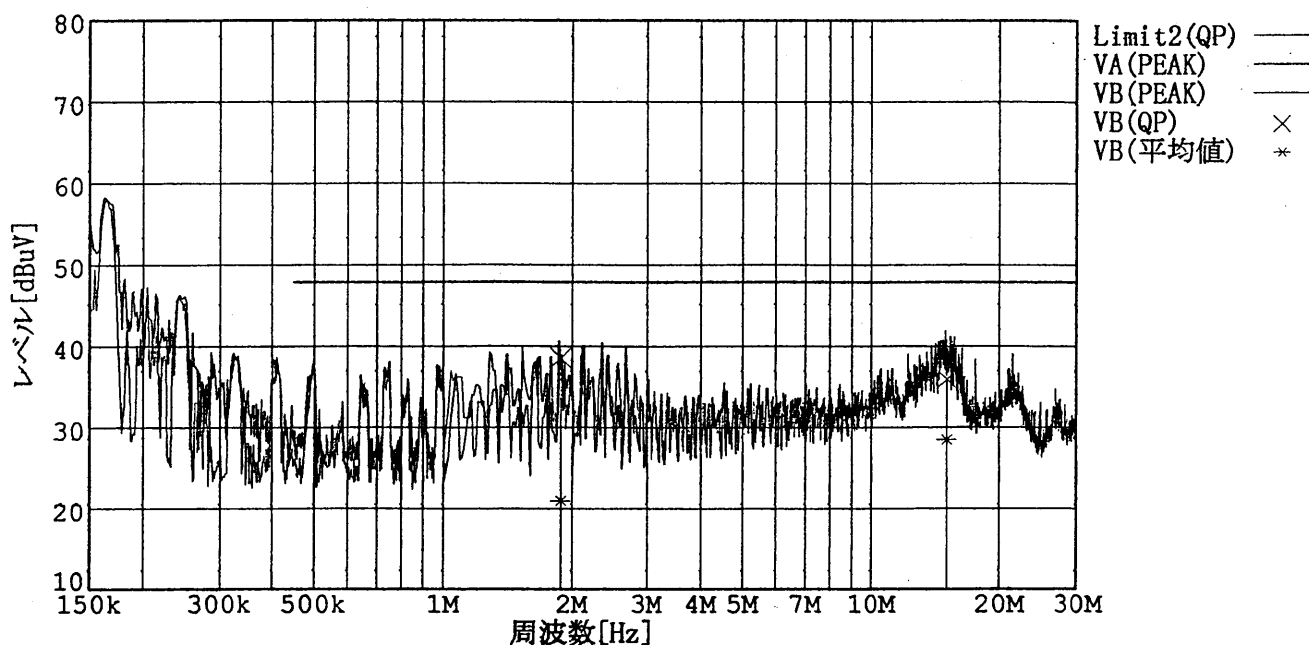
Load 100 %

規格 1 : [VCCI] Class B(平均値)

規格 2 : [VCCI] Class B(QP)



規格 2 : [FCC Part15] Class B



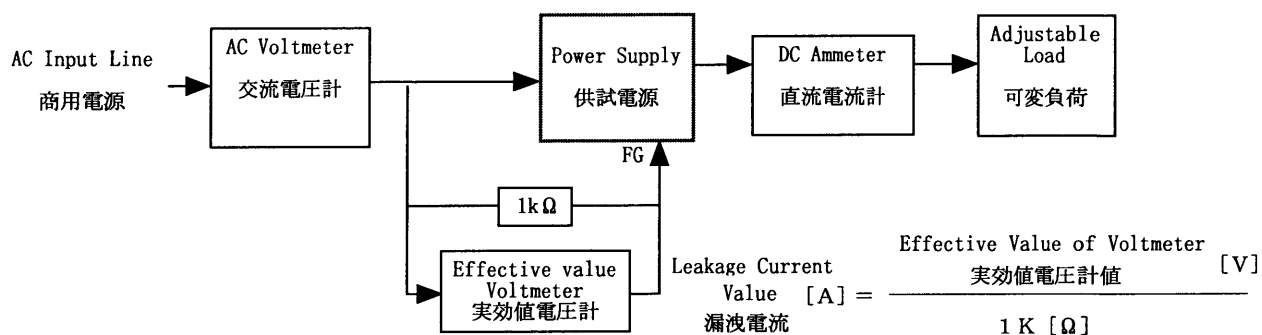
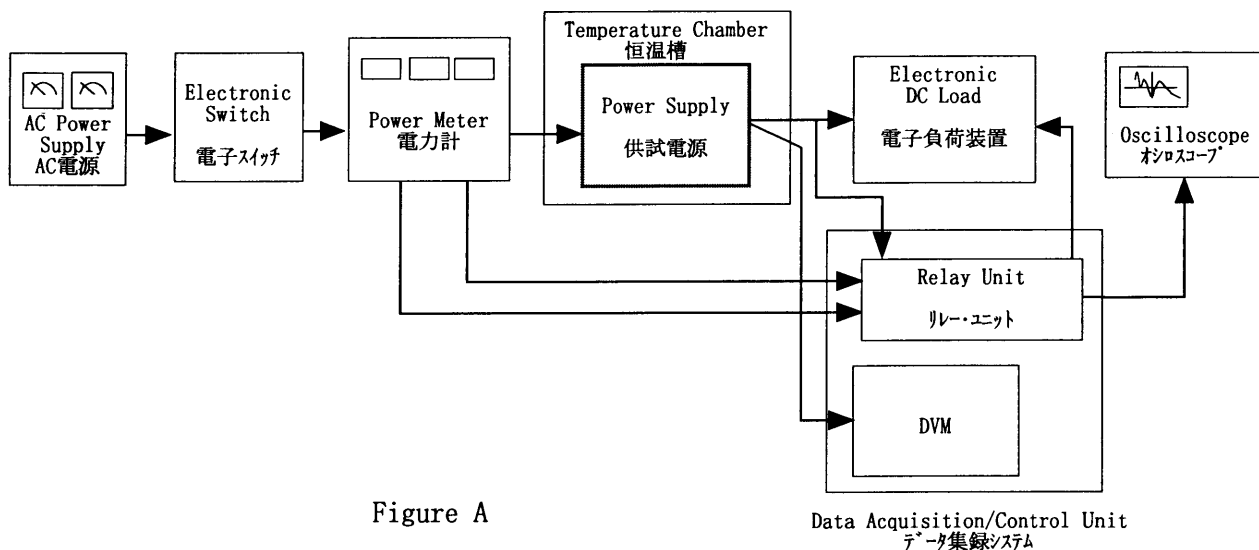


Figure B (DENTORI)

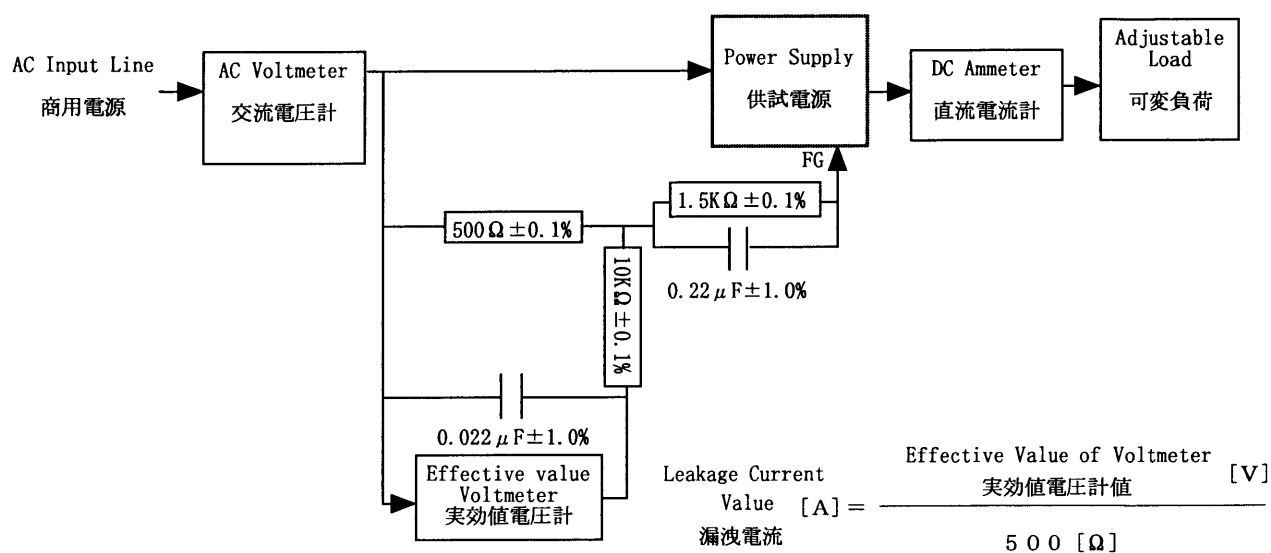


Figure B (IEC 60950)

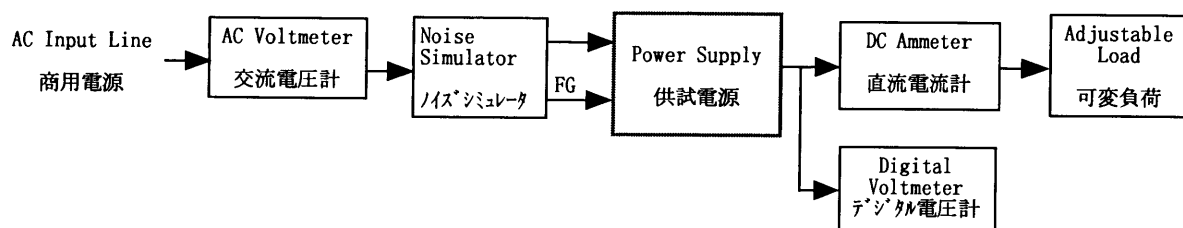


Figure C

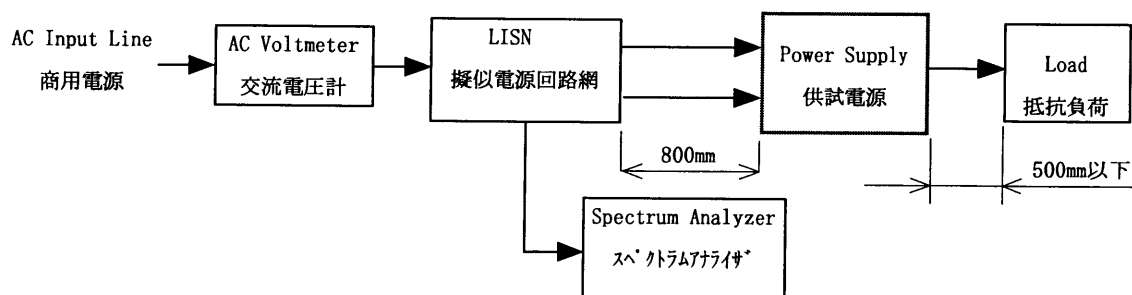


Figure D

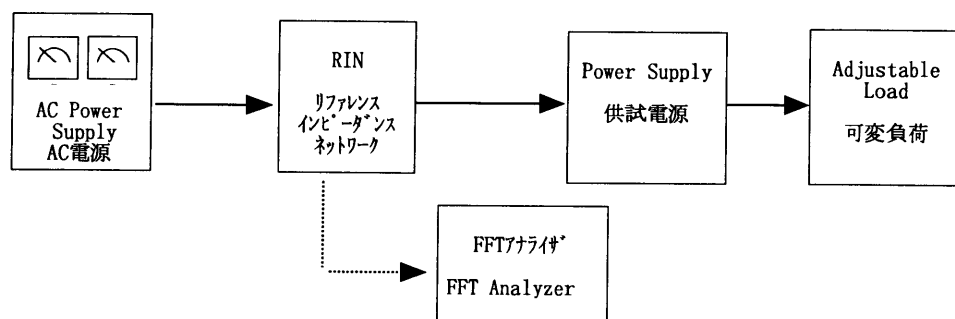


Figure E