



TEST DATA OF YS1512A (100V INPUT)

Regulated DC Power Supply

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Approved by : *M. Tapestin*
Design Manager

Prepared by : *Y. Shimizu*
Design Engineer

コーセル株式会社
COSEL CO., LTD.

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Model		YS1512A	
Item		Line Regulation 静的入力変動	
Object		+12.0V 1.30A	
1. Graph		2. Values	

□

Load 50%

—△—

Load 100%

Output Voltage

[V]

12.12

12.10

12.08

12.06

12.04

12.02

12.00

0

0

80

90

100

110

120

130

140

150

Input Voltage

[V]

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。

Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]
75	12.054	12.052
80	12.053	12.052
85	12.053	12.050
90	12.053	12.052
100	12.053	12.051
110	12.053	12.052
120	12.053	12.050
132	12.052	12.051
140	12.052	12.050

COSEL

Model		YS1512A	
Item	Input Current (by Load Current) 入力電流（負荷特性）		Temperature 25℃ 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

0.5

1

1.5

2

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]
0.00	0.039	0.041	0.044
0.20	0.109	0.106	0.103
0.40	0.164	0.153	0.140
0.60	0.216	0.199	0.175
0.80	0.269	0.244	0.212
1.00	0.321	0.290	0.248
1.20	0.371	0.334	0.283
1.30	0.398	0.357	0.302
1.43	0.432	0.387	0.325
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		YS1512A		Temperature		25℃																																																								
Item		Input Power (by Load Current) 入力電力（負荷特性）		Testing Circuitry		Figure A																																																								
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<div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>□</div><div>Input Volt. 100V</div></div><div><div>○</div><div>Input Volt. 132V</div></div></div> <div><div><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>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div></div><div><div>Input Power</div><div>Load Current</div><div>[A]</div></div></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>1.27</td><td>1.50</td><td>2.04</td></tr><tr><td>0.20</td><td>4.29</td><td>4.66</td><td>5.62</td></tr><tr><td>0.40</td><td>6.94</td><td>7.25</td><td>8.14</td></tr><tr><td>0.60</td><td>9.68</td><td>9.93</td><td>10.67</td></tr><tr><td>0.80</td><td>12.57</td><td>12.75</td><td>13.39</td></tr><tr><td>1.00</td><td>15.54</td><td>15.65</td><td>16.17</td></tr><tr><td>1.20</td><td>18.51</td><td>18.53</td><td>18.96</td></tr><tr><td>1.30</td><td>20.13</td><td>20.11</td><td>20.45</td></tr><tr><td>1.43</td><td>22.18</td><td>22.13</td><td>22.38</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	1.27	1.50	2.04	0.20	4.29	4.66	5.62	0.40	6.94	7.25	8.14	0.60	9.68	9.93	10.67	0.80	12.57	12.75	13.39	1.00	15.54	15.65	16.17	1.20	18.51	18.53	18.96	1.30	20.13	20.11	20.45	1.43	22.18	22.13	22.38	—	—	—	—	—	—	—	—	—	—	—	—
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COSEL

Model		YS1512A	
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)		Temperature 25℃ Testing Circuitry Figure A
Object			

1. Graph

□ Load 50%

△ Load 100%

Efficiency [%]

Input Voltage [V]

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。

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
75	76.2	77.5
80	75.8	77.9
85	75.4	78.3
90	74.9	78.3
100	73.7	78.3
110	72.4	78.1
120	70.9	77.6
132	69.0	77.0
140	67.8	76.4

COSEL

Model		YS1512A	
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

[%]

90

80

70

60

50

40

0

0.5

1

1.5

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]
0.20	56.5	52.1	43.1
0.40	70.0	66.9	59.6
0.60	74.7	72.8	67.7
0.80	76.9	75.8	72.1
1.00	77.8	77.3	74.8
1.20	78.1	78.1	76.3
1.30	78.1	78.2	76.9
1.43	78.1	78.3	77.4
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		YS1512A	
Item	Power Factor (by Input Voltage) 力率（入力電圧特性）		Temperature 25℃ Testing Circuitry Figure A
Object			

1. Graph

□

load 50%

—△—

load 100%

Power Factor

Input Voltage [V]

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。

2. Values

Input Voltage [V]	load 50%	load 100%
	Power Factor	Power Factor
75	0.55	0.62
80	0.54	0.61
85	0.53	0.59
90	0.52	0.58
100	0.51	0.56
110	0.49	0.55
120	0.48	0.53
132	0.47	0.51
140	0.46	0.50

COSEL

Model		YS1512A	
Item		Power Factor (by Load Current) 力率 (負荷電流特性)	
Output			

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Power Factor

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

0

0.5

1

1.5

2

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	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.38	0.37	0.35
0.20	0.46	0.44	0.41
0.40	0.50	0.47	0.44
0.60	0.53	0.50	0.46
0.80	0.55	0.52	0.48
1.00	0.57	0.54	0.49
1.20	0.59	0.55	0.51
1.30	0.59	0.56	0.51
1.43	0.60	0.57	0.52
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		YS1512A	
Item		Hold-Up Time 出力保持時間	
Object		+12.0V1.30A	
1. Graph		2. Values	

△

Load 50%

□

Load 100%

Hold-Up Time

[mS]

1000

COSEL

Model	YS1512A	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry	Figure A																																																			
Object	+12.0V1.30A																																																					
<p>1. Graph</p> <p>—△— Input Volt. 85 V - -□- - Input Volt. 100 V - -○- - Input Volt. 132 V</p> <p>[mS]</p> <p>Instantaneous Compensation Time</p> <p>Load Current [A]</p> <p>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.</p> <p>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。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th colspan="3">Time [mS]</th></tr> </thead> <tbody> <tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>0.20</td><td>154</td><td>207</td><td>334</td></tr> <tr><td>0.40</td><td>82</td><td>115</td><td>198</td></tr> <tr><td>0.60</td><td>53</td><td>77</td><td>138</td></tr> <tr><td>0.80</td><td>38</td><td>56</td><td>105</td></tr> <tr><td>1.00</td><td>27</td><td>42</td><td>82</td></tr> <tr><td>1.20</td><td>18</td><td>32</td><td>66</td></tr> <tr><td>1.30</td><td>16</td><td>27</td><td>58</td></tr> <tr><td>1.43</td><td>14</td><td>25</td><td>55</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Time [mS]			0.00	—	—	—	0.20	154	207	334	0.40	82	115	198	0.60	53	77	138	0.80	38	56	105	1.00	27	42	82	1.20	18	32	66	1.30	16	27	58	1.43	14	25	55	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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COSEL

Model		YS1512A		Temperature		25℃	
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A	
Object		+ 12.0V1.30A					
1. Graph				2. Values			

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Output Voltage

[V]

12.19

12.15

12.11

12.07

12.03

11.99

11.95

0

0

0.5

1

1.5

2

Load Current

[A]

<

COSEL

Model		YS1512A																																							
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)		Temperature 25℃ Testing Circuitry Figure A																																						
Object	+12.0V 1.30A																																								
1. Graph		2. Values																																							
<div><div>-----□----- Input Volt. 85V</div><div>-----△----- Input Volt. 132V</div><div></div><div>Ripple Voltage</div><div>Load Current [A]</div></div>		<table><thead><tr><th rowspan="2">Load Current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr></thead><tbody><tr><td>0.00</td><td>10</td><td>10</td></tr><tr><td>0.20</td><td>10</td><td>10</td></tr><tr><td>0.40</td><td>10</td><td>10</td></tr><tr><td>0.60</td><td>15</td><td>10</td></tr><tr><td>0.80</td><td>15</td><td>10</td></tr><tr><td>1.00</td><td>20</td><td>10</td></tr><tr><td>1.20</td><td>25</td><td>10</td></tr><tr><td>1.30</td><td>25</td><td>15</td></tr><tr><td>1.43</td><td>40</td><td>30</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></tbody></table>		Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	0.00	10	10	0.20	10	10	0.40	10	10	0.60	15	10	0.80	15	10	1.00	20	10	1.20	25	10	1.30	25	15	1.43	40	30	—	—	—	—	—	—
Load Current [A]	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。</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p> <div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div><div></div></div>																																									
<div><div>Fig. Complex Ripple Wave Form</div><div>図 リップル波形詳細図</div></div>																																									

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Model		YS1512A		Temperature		25℃																																													
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																													
Object		+12.0V1.30A																																																	
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<div><div><div>-----□-----</div><div>-----△-----</div></div><div><div>Input Volt. 85V</div><div>Input Volt. 132V</div></div></div> <div><div>[mV]</div><div><div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>Ripple-Noise</div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div></div><div><div>Load Current</div><div>[A]</div></div></div></div>				<table><tr><th rowspan="2">Load current</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><th>85 [V]</th><th>132 [V]</th></tr><tr><th>[A]</th><th>Ripple-Noise</th><th>Ripple-Noise</th></tr><tr><th></th><th>[mV]</th><th>[mV]</th></tr><tr><td>0.00</td><td>15</td><td>15</td></tr><tr><td>0.20</td><td>30</td><td>30</td></tr><tr><td>0.40</td><td>35</td><td>55</td></tr><tr><td>0.60</td><td>35</td><td>55</td></tr><tr><td>0.80</td><td>40</td><td>55</td></tr><tr><td>1.00</td><td>40</td><td>55</td></tr><tr><td>1.20</td><td>50</td><td>60</td></tr><tr><td>1.30</td><td>50</td><td>60</td></tr><tr><td>1.43</td><td>65</td><td>65</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>				Load current	Input Volt.	Input Volt.	85 [V]	132 [V]	[A]	Ripple-Noise	Ripple-Noise		[mV]	[mV]	0.00	15	15	0.20	30	30	0.40	35	55	0.60	35	55	0.80	40	55	1.00	40	55	1.20	50	60	1.30	50	60	1.43	65	65	—	—	—	—	—	—
Load current	Input Volt.	Input Volt.																																																	
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<p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップルノイズは、下図 p - p 値で示される。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> <div><div><div>T1: Due to AC Input Line</div><div>入力商用周期</div><div>T2: Due to Switching</div><div>スイッチング周期</div></div><div><div><div>T2</div><div>Ripple-Noise</div><div>[mVp-p]</div></div><div><div>T1</div></div></div></div>																																																			
<p>Fig. Complex Ripple Wave Form</p> <p>図 リップル波形詳細図</p>																																																			

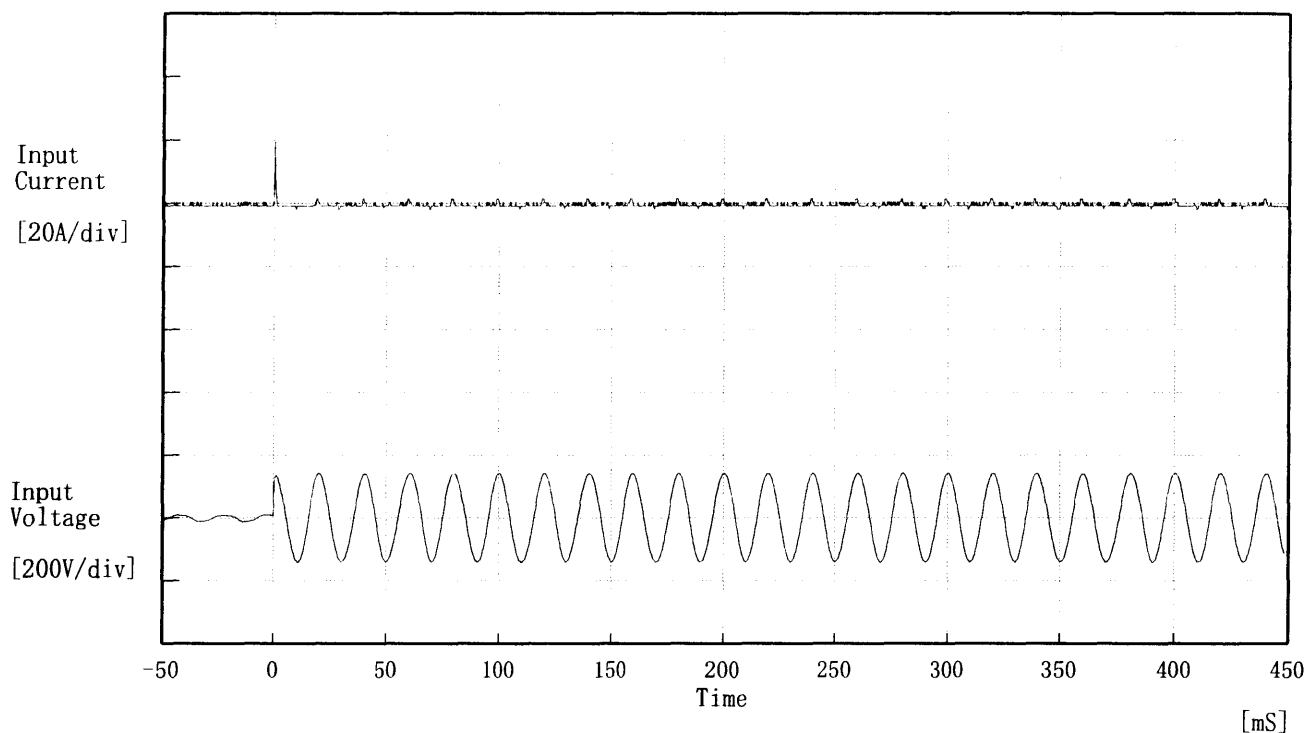
COSEL

Model		YS1512A		Temperature 25℃ Testing Circuitry Figure A
Item		Overcurrent Protection 過電流保護		
Object		+12.0V 1.30A		
1. Graph				
[V]	 Input Volt. 85 V ———— Input Volt. 100 V ———— Input Volt. 132 V		
Output Voltage		Load Current		
[V]		[A]		
20.0		2.5		
15.0		2.0		
10.0		1.5		
5.0		1.0		
0.0		0.5		
0		0		
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				
Output Voltage	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	
	Load Current [A]	Load Current [A]	Load Current [A]	
12.00	1.85	1.96	1.73	
11.40	1.86	1.95	1.72	
10.80	1.84	1.93	1.71	
9.60	1.82	1.89	1.66	
8.40	1.78	1.84	1.60	
7.20	1.72	1.77	1.54	
6.00	1.64	1.68	1.47	
4.80	1.53	1.58	1.39	
3.60	1.40	1.44	1.29	
2.40	1.24	1.28	1.17	
1.20	1.07	1.11	1.05	
0.00	0.99	1.03	1.04	

COSEL

Model	YS1512A	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V

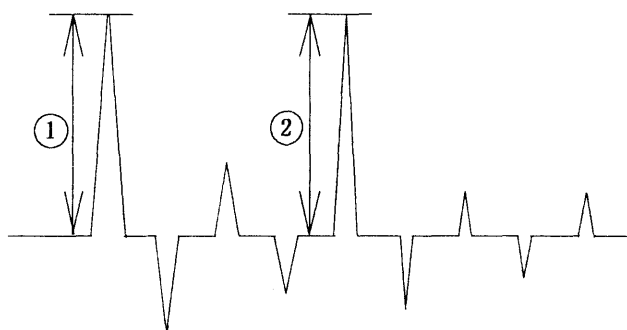
Frequency 50 Hz

Load 100 %

Inrush Current

① 19.41 [A]

② 1.90 [A]



COSEL

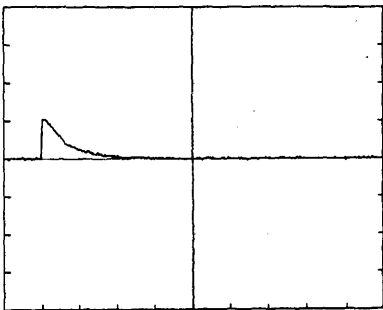
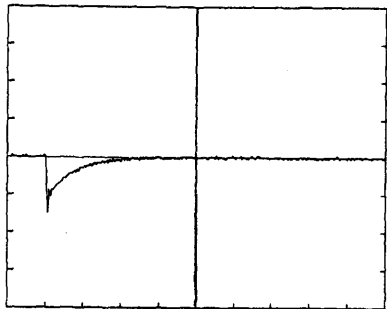
Model	YS1512A
Item	Dynamic Load Responce 動的負荷変動
Object	+12.0V 1.30A

Temperature 25℃
Testing Circuitry Figure A

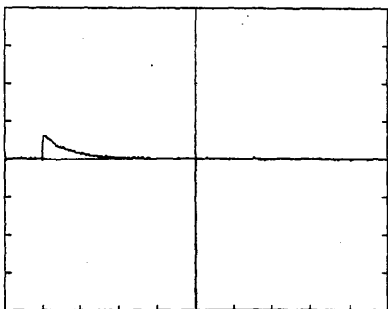
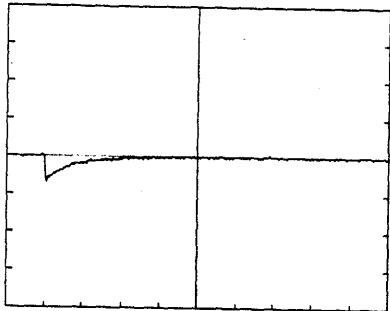
Input Volt. 100 V
Cycle 200 mS



Load 0% ↔
Load 100 %



Load 0% ↔
Load 50 %



500 mV/div

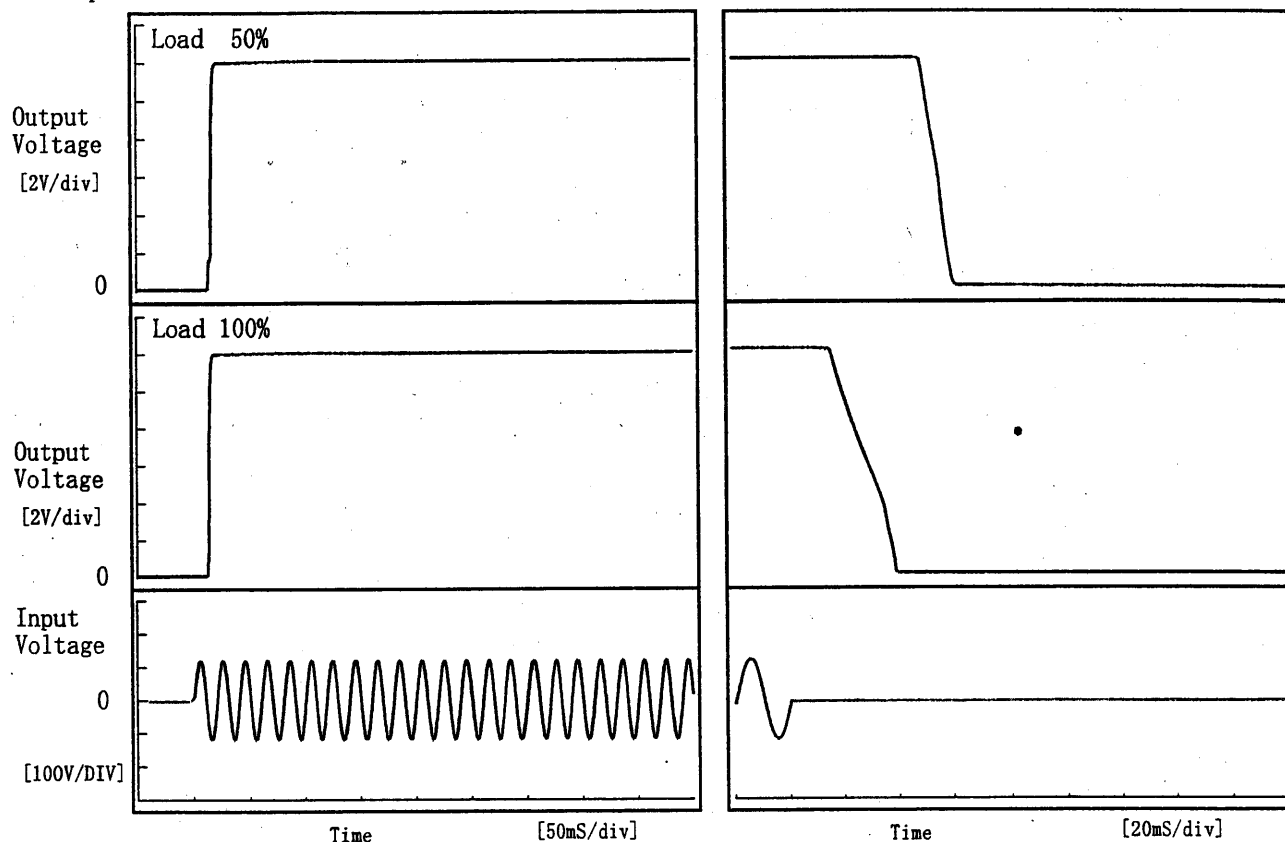
1 mS/div

COSEL

Model	YS1512A	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V 1.30A		

1. Graph

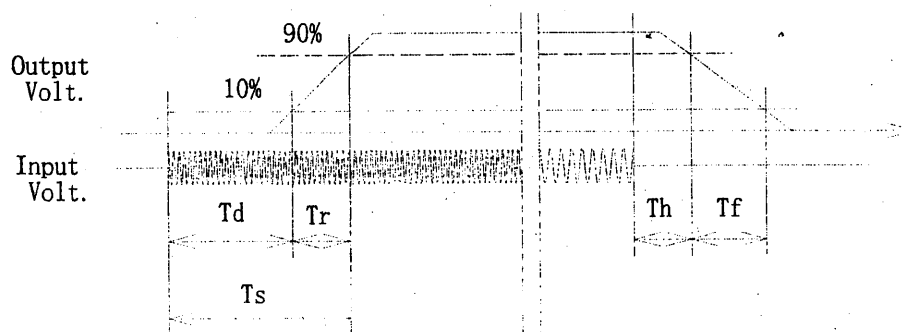
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	12.8	4.0	16.8	49.7	9.8
100 %	12.8	2.3	15.0	18.0	20.6



COSEL

Model		YS1512A	Testing Circuitry Figure A																																															
Item		Ambient Temperature Drift 周囲温度変動																																																
Object		+12.0V 1.30A																																																
1. Graph		<div> <div> <div>△</div> <div>□</div> <div>○</div> </div> <div> <div>Input Volt. 85V</div> <div>Input Volt. 100V</div> <div>Input Volt. 132V</div> </div> </div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</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>	2. Values																																															
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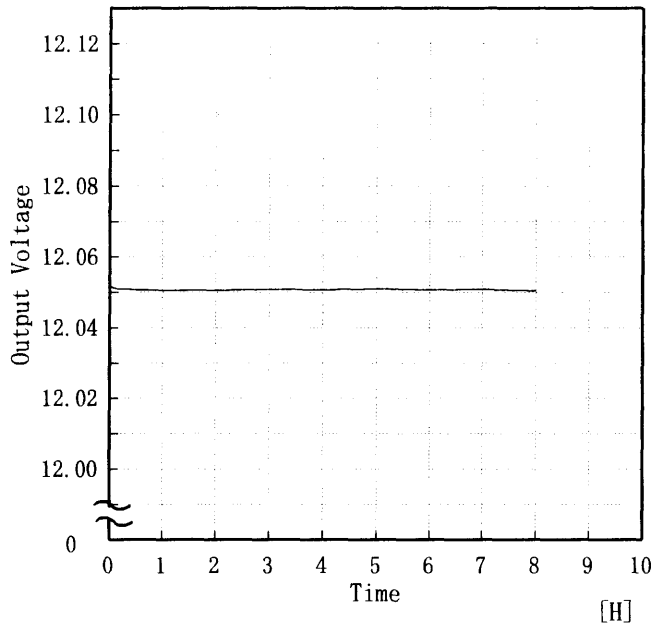
COSEL

Model		YS1512A																																				
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																				
Object		+12.0V1.30A																																				
1. Graph		<div> <div>□ Load 50%</div> <div>—△— Load 100%</div> </div> <p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</p>																																				
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Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																				
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COSEL

Model		YS1512A	Testing Circuitry Figure A																																					
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																						
Object		+12.0V 1.30A																																						
1. Graph		<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div><div>[mV]</div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>Ripple Voltage</div></div><div><div>-30</div><div>-10</div><div>10</div><div>30</div><div>50</div><div>70</div></div><div><div>Ambient Temperature</div><div>[°C]</div></div></div> <div>Input Volt. 100 V</div> <div>Note: Slanted line shows the range of the rated ambient temperature.</div> <div>(注)斜線は定格周囲温度範囲を示す。</div>	2. Values																																					
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COSEL

COSEL																									
Model	YS1512A	Temperature 25 ℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+12.0V 1.30A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage [V]</div> <div>Time [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>12.056</td></tr><tr><td>0.5</td><td>12.051</td></tr><tr><td>1.0</td><td>12.050</td></tr><tr><td>2.0</td><td>12.051</td></tr><tr><td>3.0</td><td>12.051</td></tr><tr><td>4.0</td><td>12.051</td></tr><tr><td>5.0</td><td>12.051</td></tr><tr><td>6.0</td><td>12.051</td></tr><tr><td>7.0</td><td>12.051</td></tr><tr><td>8.0</td><td>12.050</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	12.056	0.5	12.051	1.0	12.050	2.0	12.051	3.0	12.051	4.0	12.051	5.0	12.051	6.0	12.051	7.0	12.051	8.0	12.050
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8.0	12.050																								

COSEL

Model		YS1512A	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度		
Object	+12.0V 1.30A		

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 : 0~55 °C

Input Voltage : 85~132 V

Load Current : 0.00~1.30 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、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 : 0~55 °C

入力電圧 : 85~132 V

負荷電流 : 0.00~1.30 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 (Ration) [%]
Maximum Voltage	0	132	0.00	12.072	±23	±0.2
Minimum Voltage	55	132	1.30	12.027		

COSEL

Model		YS1512A		Temperature 25℃																																																				
Item		Oscillator Frequency 発振周波数		Testing Circuitry Figure A																																																				
Object		+12.0V1.30A																																																						
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>[KHz]</div><div>10000</div><div>1000</div><div>100</div></div><div><div>Oscillator Frequency</div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div></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>Load Current</div><div>[A]</div></div> <div><div>Note:Slanted line shows the range of the</div><div>rated load current.</div></div> <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>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><th colspan="3">Oscillator Frequency [KHz]</th></tr><tr><td>0.00</td><td>980</td><td>1010</td><td>1030</td></tr><tr><td>0.20</td><td>714</td><td>761</td><td>827</td></tr><tr><td>0.40</td><td>516</td><td>545</td><td>625</td></tr><tr><td>0.60</td><td>402</td><td>433</td><td>496</td></tr><tr><td>0.80</td><td>327</td><td>358</td><td>411</td></tr><tr><td>1.00</td><td>280</td><td>308</td><td>352</td></tr><tr><td>1.20</td><td>241</td><td>267</td><td>309</td></tr><tr><td>1.30</td><td>225</td><td>250</td><td>291</td></tr><tr><td>1.43</td><td>207</td><td>231</td><td>270</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 Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Oscillator Frequency [KHz]			0.00	980	1010	1030	0.20	714	761	827	0.40	516	545	625	0.60	402	433	496	0.80	327	358	411	1.00	280	308	352	1.20	241	267	309	1.30	225	250	291	1.43	207	231	270	—	—	—	—	—	—	—	—
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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

COSEL

Model	YS1512A
Item	Condensation 結露特性
Object	+12.0V1.30A

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.

② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で-10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	12.052	Input Volt. : 100V, Load Current:1.30A
Line Regulation [mV]	1	Input Volt. : 85~132V, Load Current:1.30A
Load Regulation [mV]	6	Input Volt. : 100V, Load Current:0.0~1.30A

COSEL

LUCEL

Model	YS1512A
Item	Leakage Current 漏洩電流
Object	

Temperature25℃

Testing CircuitryFigure B

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.11	0.13	0.18
(B) IEC60950	0.11	0.13	0.17

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。

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

—24—

BC-3202

COSEL

Model	YS1512A	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+12.0V1.30A		

1. Results

Pulse Width [n S]	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

Conditions

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

COSEL

Model	YS1512A	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object	_____	

1. Graph

Remarks

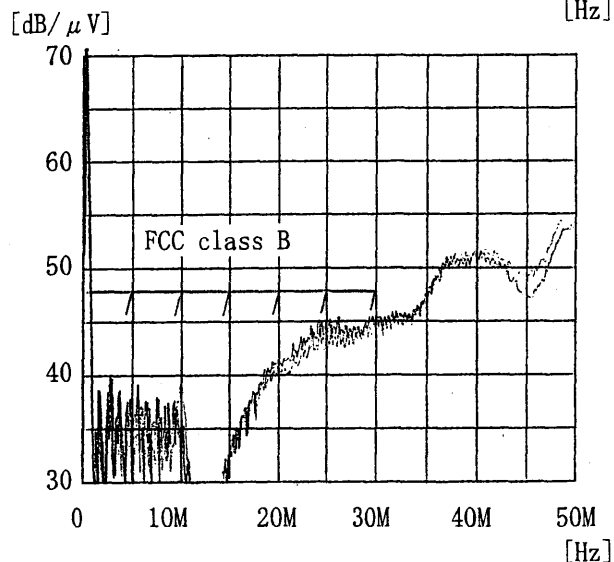
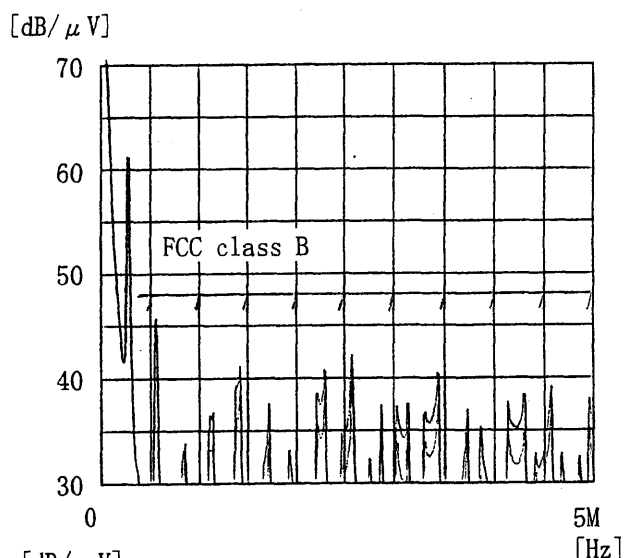
Input Volt. 120 V

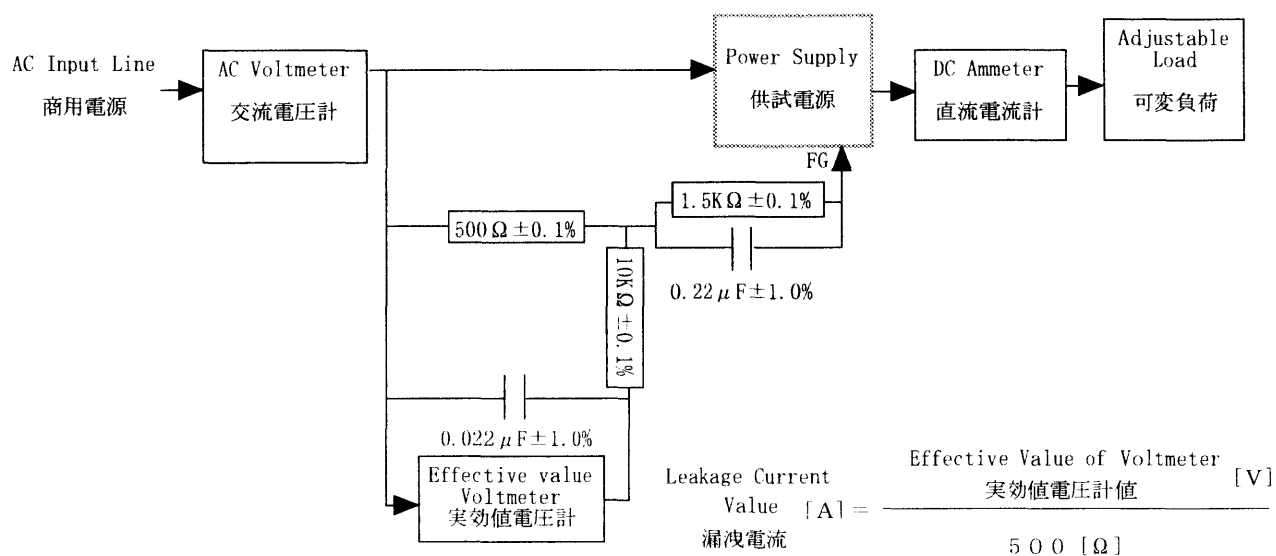
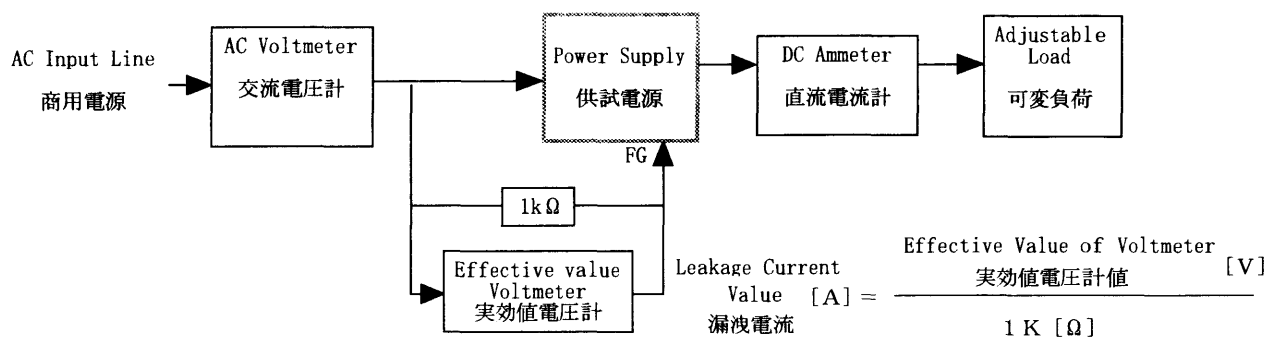
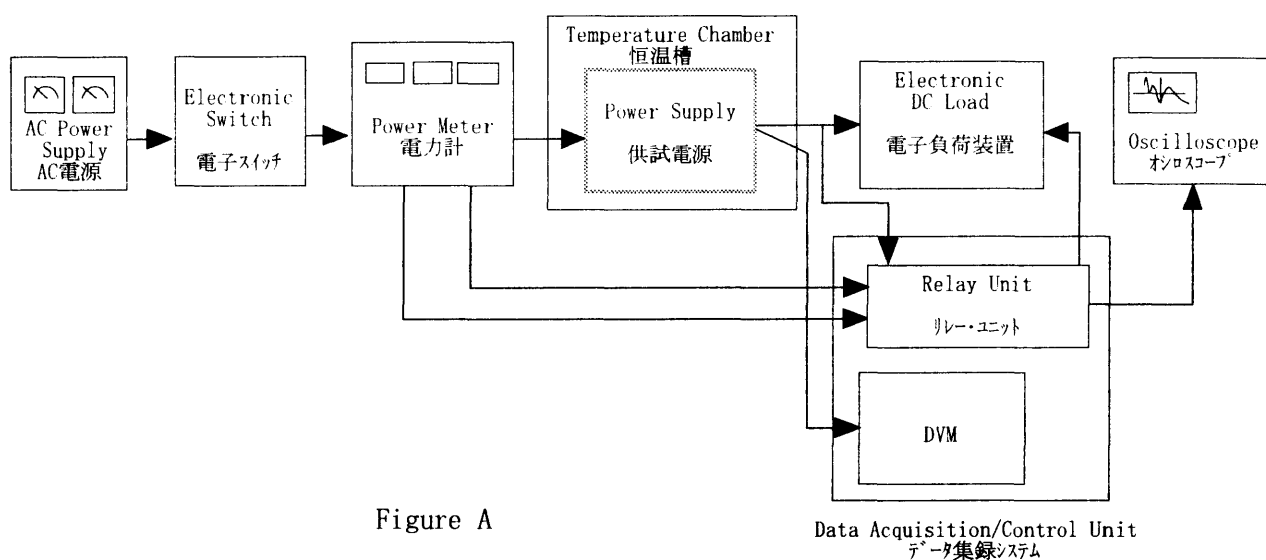
Load 100 %

Note: Slanted line shows the range of Tolerance.

(注)斜線は許容値を示す。

NO	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/μV]
1	FCC class A		0.45~1.6	60
			1.6~30	69.5
2	FCC class B	○	0.45~30	48
3	VCCI class A		0.15~0.5	79
			0.5~30	73
4	VCCI class B		0.15~0.5	66~56
			0.5~5	56
			5~30	60
5	CISPR Pub. 22 class A (EN55022)		0.15~0.5	79
			0.5~30	73
6	CISPR Pub. 22 class B (EN55022)		0.15~0.5	66~56
			0.5~5	56
			5~30	60





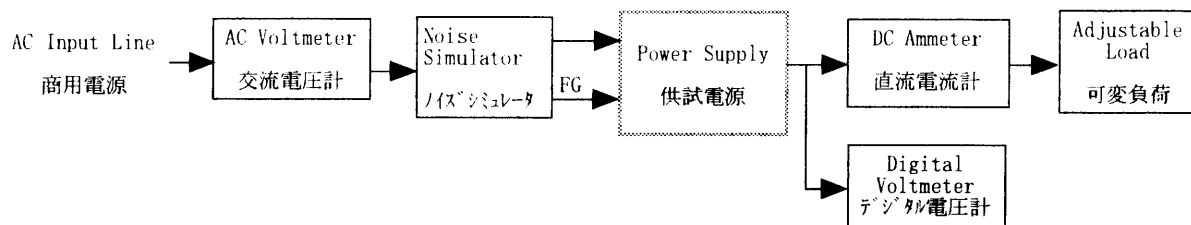


Figure C

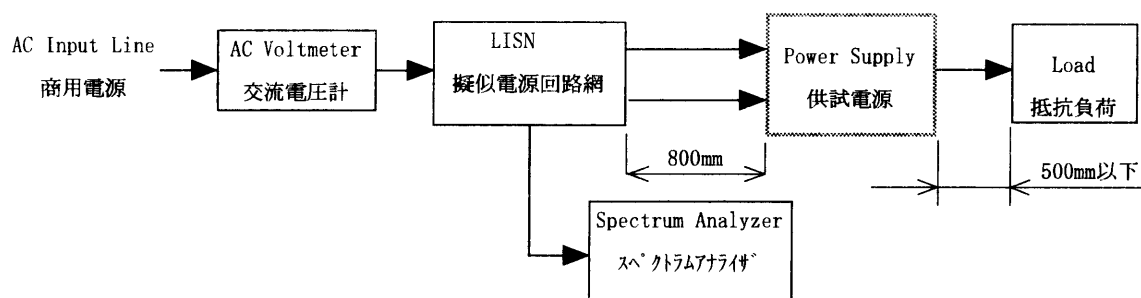


Figure D

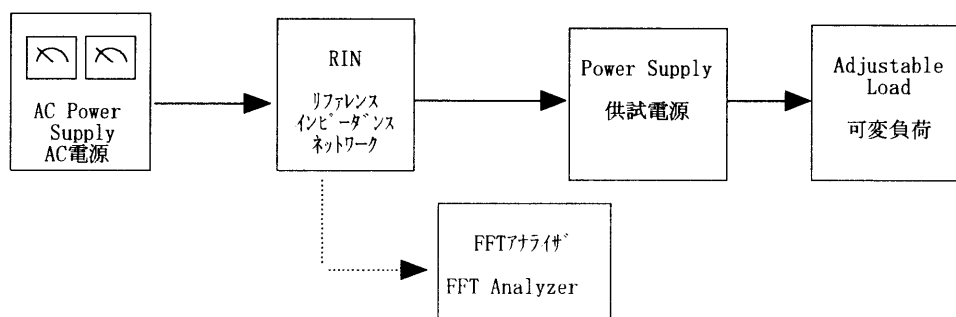


Figure E