



TEST DATA OF YW1012A

(100V INPUT)

Regulated DC Power Supply

Date : Aug. 3, 1999

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Design Manager

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Design Engineer

コーセル株式会社
COSEL CO., LTD.



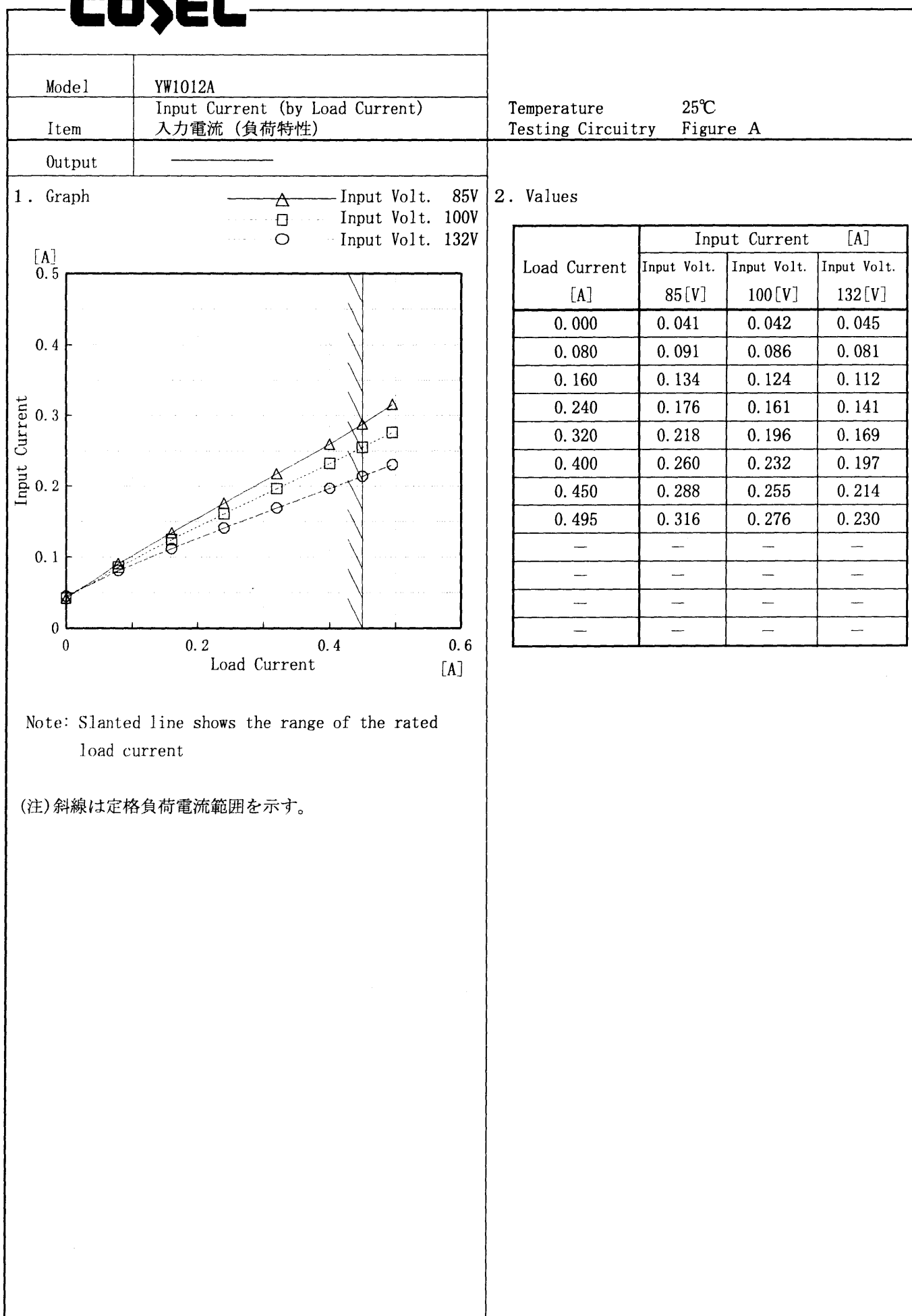
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(Final Page 35)

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Model		YW1012A																																	
Item	Line Regulation 静的入力変動																																		
Object	+12.0V0.45A																																		
1. Graph		2. Values																																	
<div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div> <div><div>Output Voltage [V]</div><div><div><div>12.44</div><div>12.34</div><div>12.24</div><div>12.14</div><div>12.04</div><div>11.94</div><div>11.84</div><div>0</div></div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div></div><div>Input Voltage [V]</div></div>		<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>12.147</td><td>12.039</td></tr><tr><td>80</td><td>12.140</td><td>12.043</td></tr><tr><td>85</td><td>12.135</td><td>12.043</td></tr><tr><td>90</td><td>12.133</td><td>12.042</td></tr><tr><td>100</td><td>12.124</td><td>12.044</td></tr><tr><td>110</td><td>12.120</td><td>12.045</td></tr><tr><td>120</td><td>12.117</td><td>12.045</td></tr><tr><td>132</td><td>12.114</td><td>12.045</td></tr><tr><td>140</td><td>12.114</td><td>12.044</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	12.147	12.039	80	12.140	12.043	85	12.135	12.043	90	12.133	12.042	100	12.124	12.044	110	12.120	12.045	120	12.117	12.045	132	12.114	12.045	140	12.114	12.044
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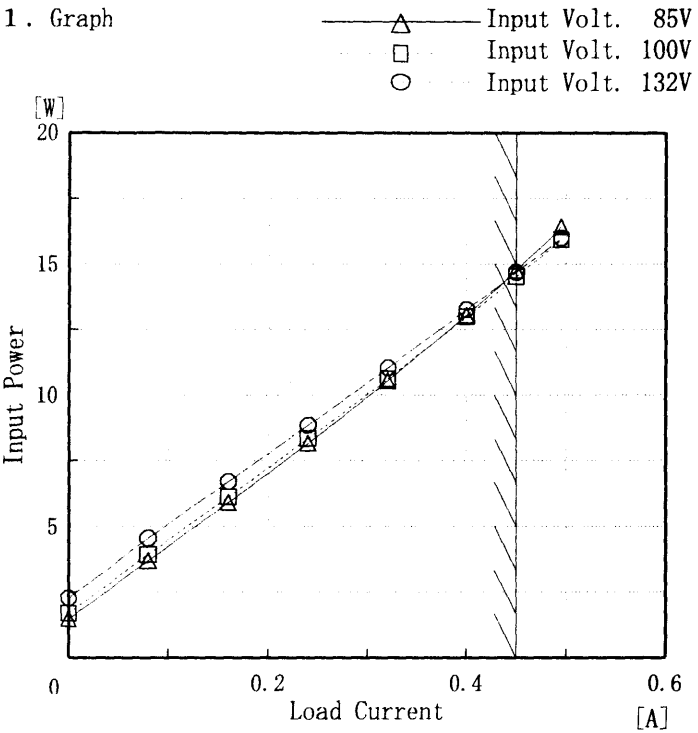
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Model	YW1012A
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Output	_____

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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

(注) 斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.000	1.46	1.68	2.26
0.080	3.71	3.94	4.57
0.160	5.91	6.13	6.71
0.240	8.17	8.34	8.85
0.320	10.55	10.62	11.04
0.400	13.05	12.98	13.26
0.450	14.75	14.51	14.69
0.495	16.43	15.93	16.00
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		YW1012A	
Item		Efficiency 効率	
Object			

1. Graph

□

Load 50%

△

Load 100%

Efficiency [%]

86

82

78

74

70

66

62

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。

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	70.9	69.8
80	70.4	72.2
85	70.1	73.5
90	69.5	74.2
100	68.4	74.7
110	67.0	74.6
120	65.9	74.4
132	64.3	73.8
140	63.1	73.4

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Model		YW1012A		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率（負荷電流特性）		Testing Circuitry		Figure A																																																								
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<div><div>—△— Input Volt. 85V - - - □ - - - Input Volt. 100V - - - ○ - - - Input Volt. 132V</div><p>Efficiency [%]</p><p>Load Current [A]</p><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 [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 100 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.080</td><td>52.0</td><td>49.1</td><td>42.2</td></tr><tr><td>0.160</td><td>65.4</td><td>63.0</td><td>57.5</td></tr><tr><td>0.240</td><td>70.9</td><td>69.4</td><td>65.5</td></tr><tr><td>0.320</td><td>73.2</td><td>72.7</td><td>69.9</td></tr><tr><td>0.400</td><td>73.9</td><td>74.3</td><td>72.7</td></tr><tr><td>0.450</td><td>73.5</td><td>74.7</td><td>73.8</td></tr><tr><td>0.495</td><td>72.6</td><td>74.9</td><td>74.6</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 [A]	Efficiency [%]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	0.080	52.0	49.1	42.2	0.160	65.4	63.0	57.5	0.240	70.9	69.4	65.5	0.320	73.2	72.7	69.9	0.400	73.9	74.3	72.7	0.450	73.5	74.7	73.8	0.495	72.6	74.9	74.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model YW1012A		Temperature 25℃ Testing Circuitry Figure A																																
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COSEL

Model	YW1012A	Temperature	25°C
Item	Power Factor (by Load Current) 力率 (負荷電流特性)	Testing Circuitry	Figure A
Output	—		

1. Graph

—△—

Input Volt. 85V

—□—

Input Volt. 100V

—○—

Input Volt. 132V

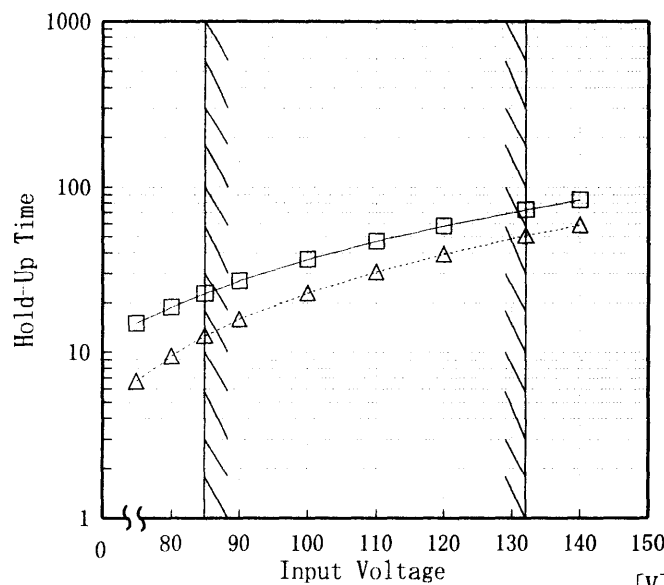
Note: Slanted line shows the range of the rated load current

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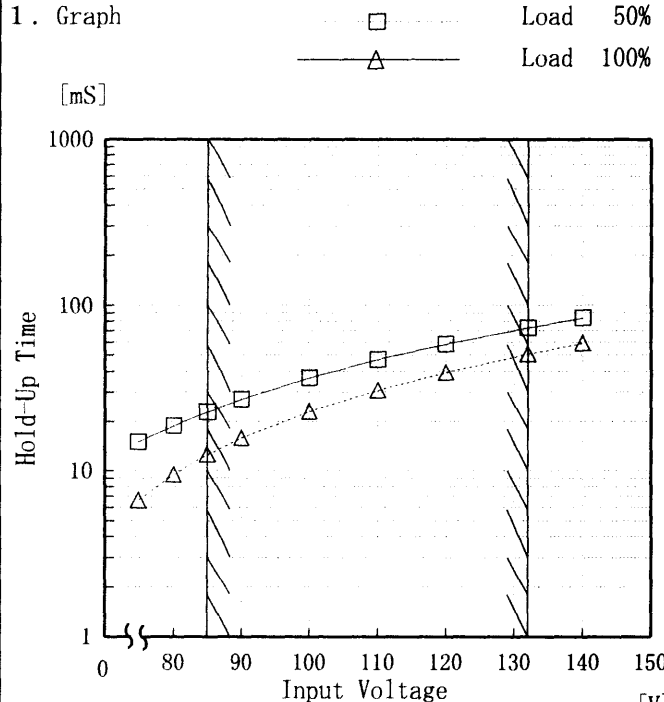
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	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
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0.080	0.48	0.46	0.43
0.160	0.52	0.49	0.46
0.240	0.55	0.52	0.48
0.320	0.57	0.54	0.49
0.400	0.59	0.56	0.51
0.450	0.60	0.57	0.52
0.495	0.61	0.58	0.53
—	—	—	—
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COSEL

Model		YW1012A		Temperature		25℃																																	
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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		YW1012A		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
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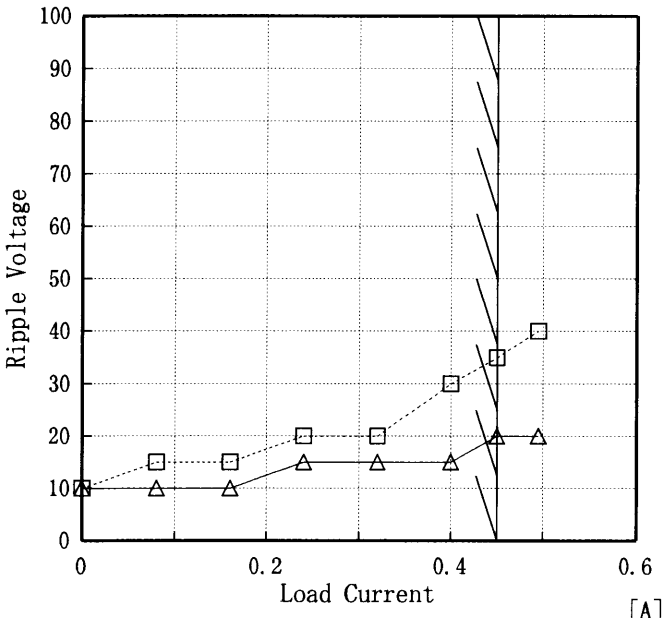
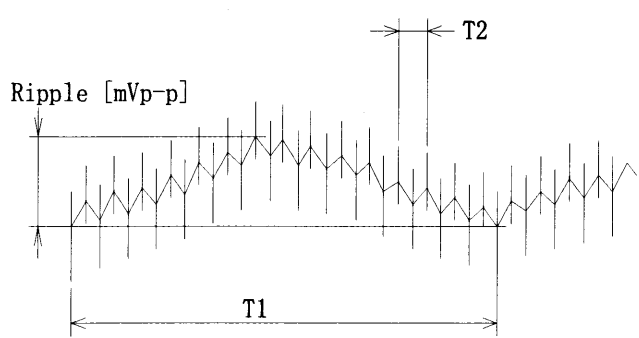
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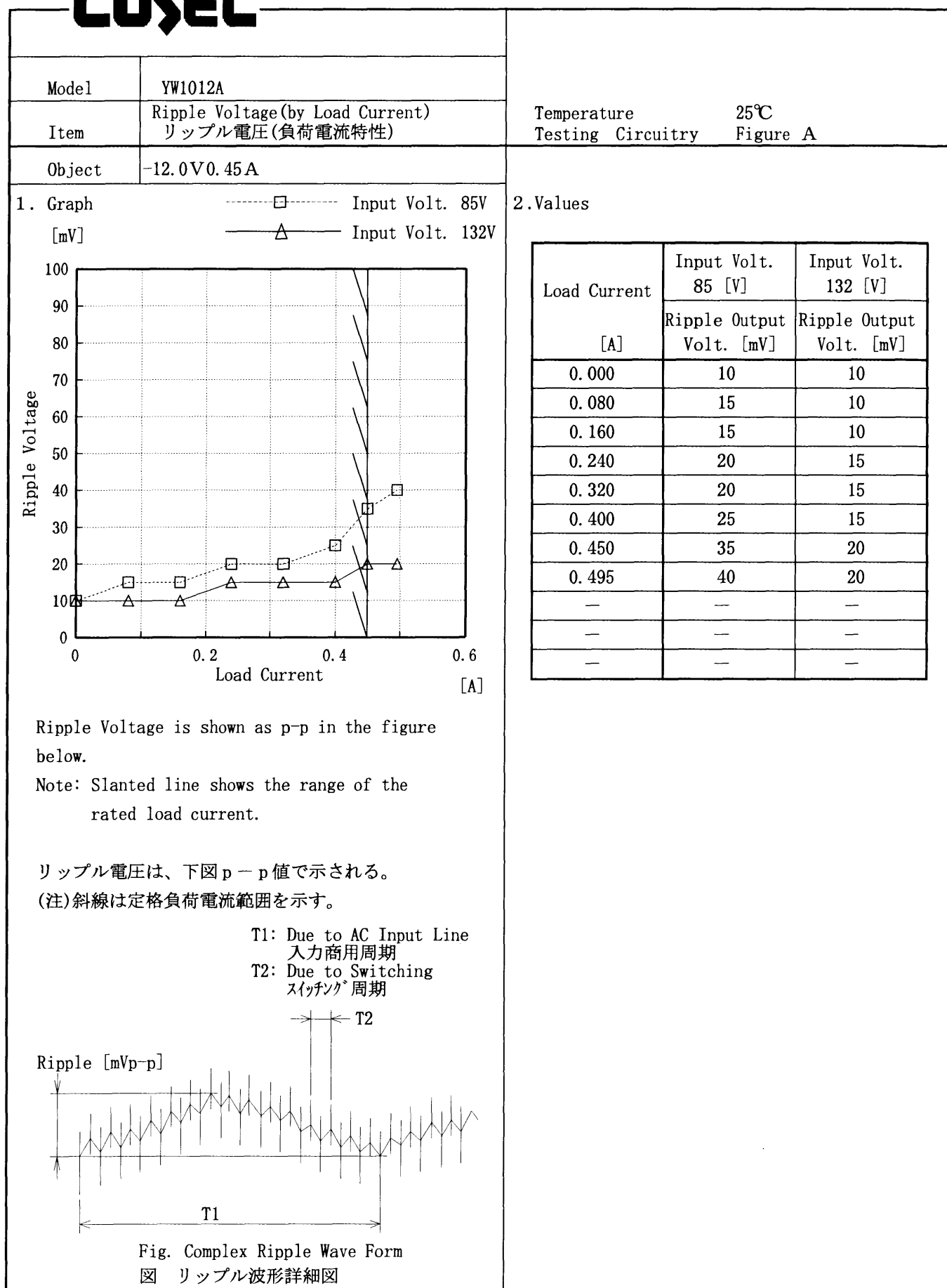
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Model		YW1012A		Temperature		25℃	
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A	
Object		+12.0V0.45A		2. Values			
1. Graph		<div><div>△</div>Input Volt. 85 V</div> <div><div>□</div>Input Volt. 100 V</div> <div><div>○</div>Input Volt. 132 V</div>					
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Model YW1012A		Temperature 25°C Testing Circuitry Figure A																																						
Item	Ripple Voltage (by Load Current) リップル電圧(負荷電流特性)																																							
Object	+12.0V 0.45A																																							
<p>1. Graph</p> <p>[mV]</p> <p>-----□----- Input Volt. 85V</p> <p>-----△----- Input Volt. 132V</p>  <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> <p>T1: Due to AC Input Line 入力商用周期</p> <p>T2: Due to Switching スイッチング周期</p>  <p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</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. 132 [V]</th></tr> <tr> <th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>0.000</td><td>10</td><td>10</td></tr> <tr><td>0.080</td><td>15</td><td>10</td></tr> <tr><td>0.160</td><td>15</td><td>10</td></tr> <tr><td>0.240</td><td>20</td><td>15</td></tr> <tr><td>0.320</td><td>20</td><td>15</td></tr> <tr><td>0.400</td><td>30</td><td>15</td></tr> <tr><td>0.450</td><td>35</td><td>20</td></tr> <tr><td>0.495</td><td>40</td><td>20</td></tr> <tr><td>—</td><td>—</td><td>—</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]	0.000	10	10	0.080	15	10	0.160	15	10	0.240	20	15	0.320	20	15	0.400	30	15	0.450	35	20	0.495	40	20	—	—	—	—	—	—	—	—	—
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COSEL

COSEL

Model		YW1012A	
Item		Ripple-Noise リップルノイズ	
Object		+12.0V0.45A	
1. Graph		2. Values	

-----□----- Input Volt. 85V

[mV] ————△———— 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

Load current	Input Volt.	Input Volt.
	85 [V]	132 [V]
[A]	Ripple-Noise	Ripple-Noise
	[mV]	[mV]
0.000	35	30
0.080	35	30
0.160	40	35
0.240	45	40
0.320	45	40
0.400	55	45
0.450	55	45
0.495	60	50
—	—	—
—	—	—
—	—	—

COSEL

Model		YW1012A		Temperature		25℃																																							
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																							
Object		-12.0V0.45A																																											
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<div><div><div>-----□-----</div><div>Input Volt. 85V</div></div><div><div>-----△-----</div><div>Input Volt. 132V</div></div></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>[mV]</div></div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div></div><div><div>Load Current</div><div>[A]</div></div></div>				<table><tr><th rowspan="2">Load current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><th>Ripple-Noise [mV]</th><th>Ripple-Noise [mV]</th></tr><tr><td>0.000</td><td>30</td><td>25</td></tr><tr><td>0.080</td><td>30</td><td>25</td></tr><tr><td>0.160</td><td>30</td><td>25</td></tr><tr><td>0.240</td><td>30</td><td>25</td></tr><tr><td>0.320</td><td>30</td><td>25</td></tr><tr><td>0.400</td><td>35</td><td>30</td></tr><tr><td>0.450</td><td>45</td><td>35</td></tr><tr><td>0.495</td><td>50</td><td>40</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>				Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple-Noise [mV]	Ripple-Noise [mV]	0.000	30	25	0.080	30	25	0.160	30	25	0.240	30	25	0.320	30	25	0.400	35	30	0.450	45	35	0.495	50	40	—	—	—	—	—	—	—	—	—
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COSEL

Model		YW1012A		Temperature 25℃																																																								
Item		Overcurrent Protection 過電流保護		Testing Circuitry Figure A																																																								
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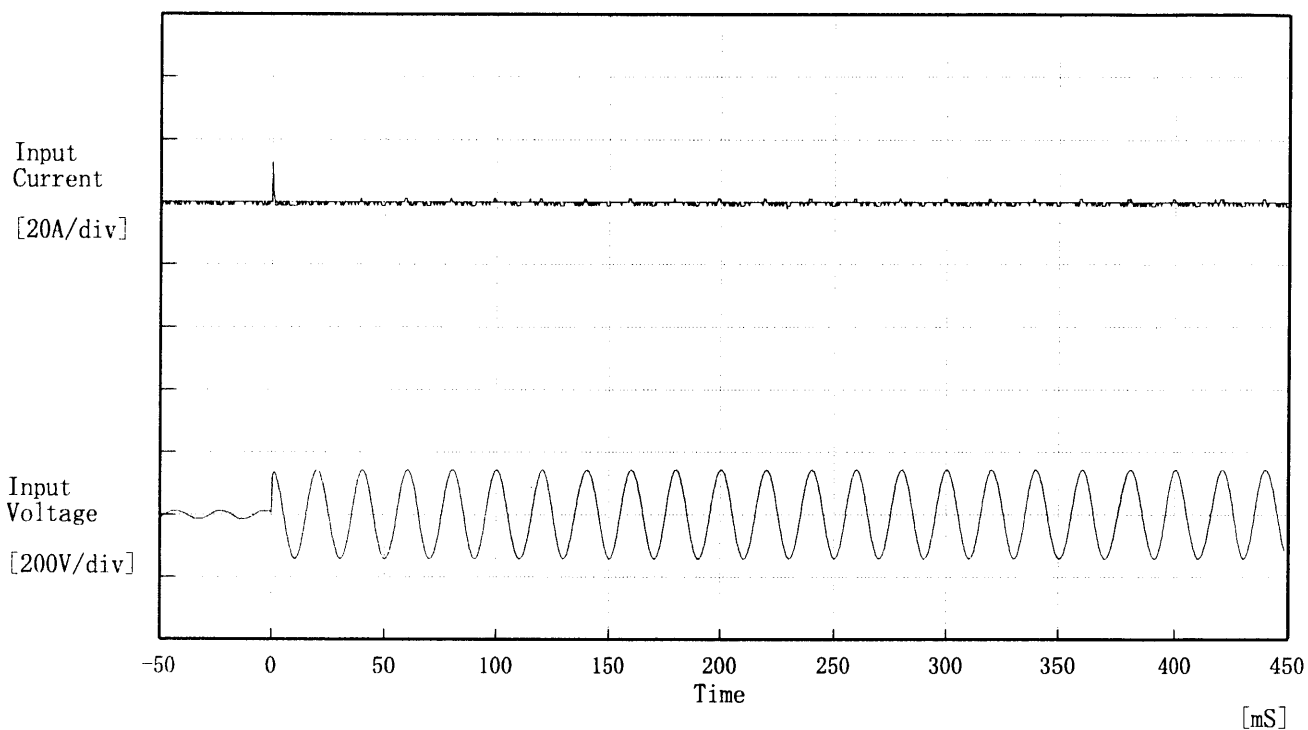
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BC-3205

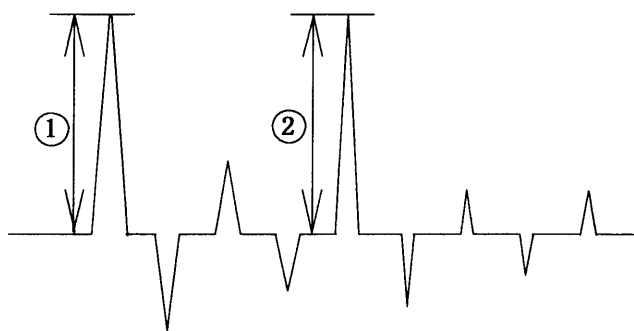
COSEL

Model	YW1012A	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V
 Frequency 50 Hz
 Load 100 %
 Inrush Current

- ① 12.35 [A]
- ② 2.23 [A]



COSEL

Model	YW1012A	Temperature	25℃
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	+12.0V0.45A		

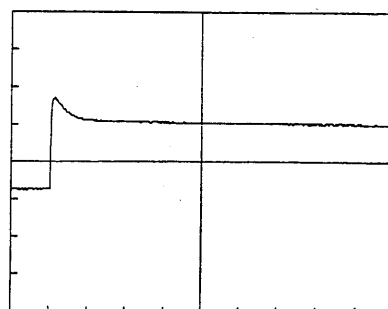
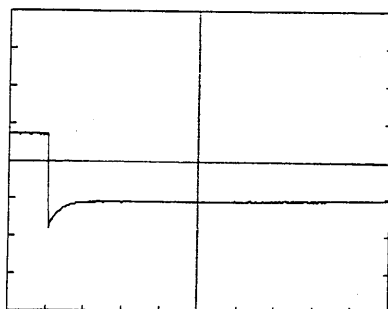
Input Volt. 100 V

Cycle 200 mS

Load Current

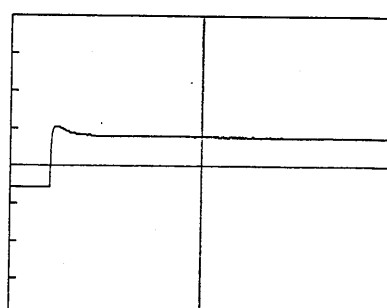
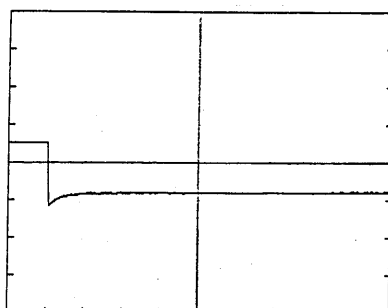
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

2 mS/div

COSEL

Model	YW1012A	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	-12.0V 0.45A	

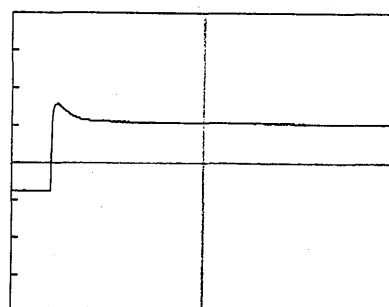
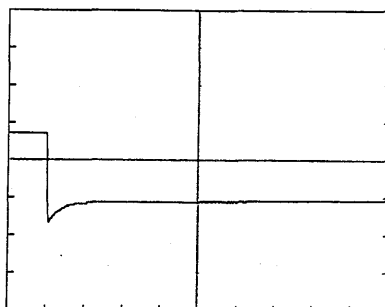
Input Volt. 100 V

Cycle 200 mS

Load Current

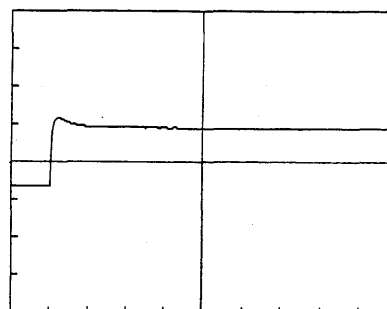
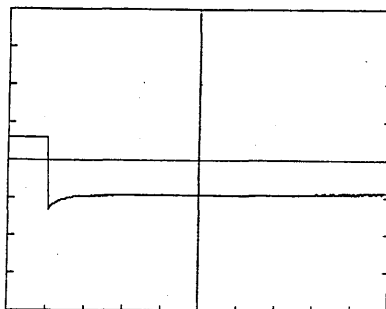
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

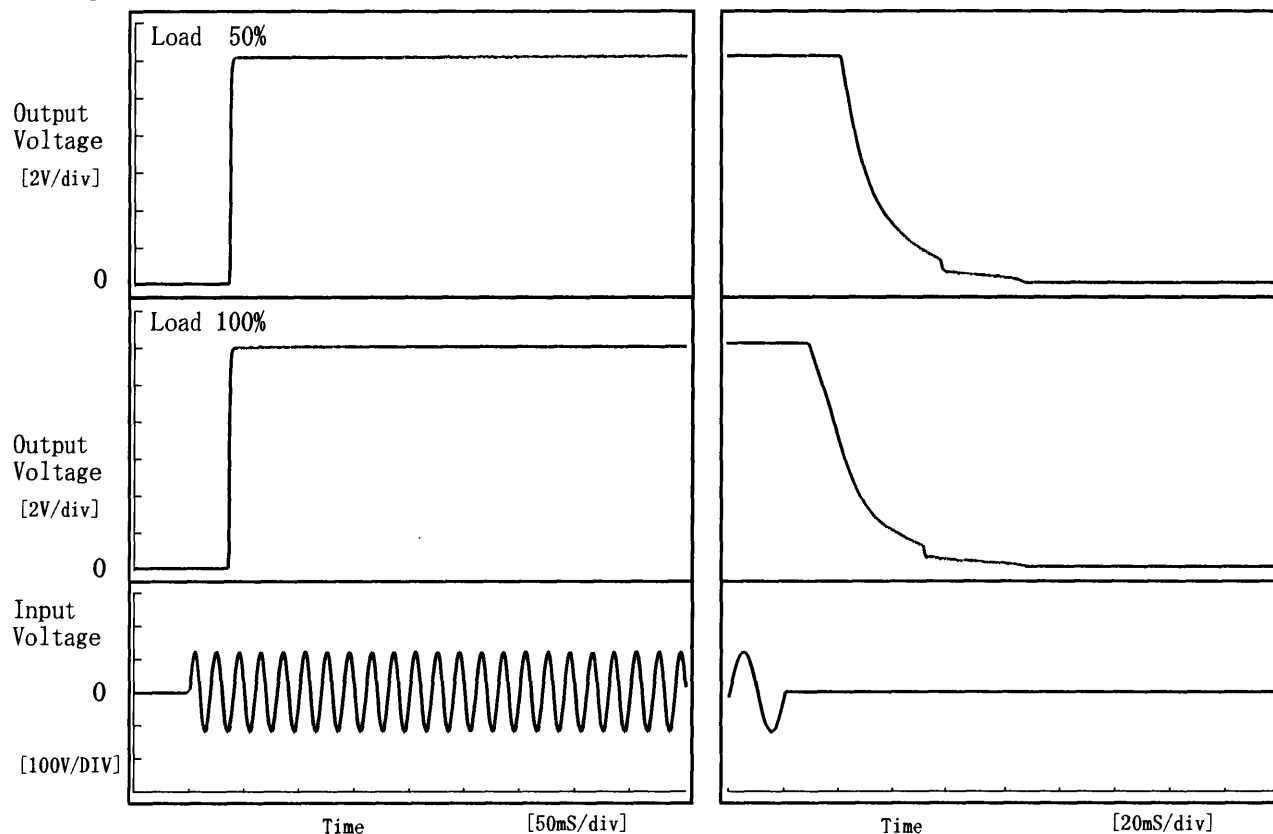
2 mS/div

COSEL

Model	YW1012A	Temperature	25℃
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V 0.45A		

1. Graph

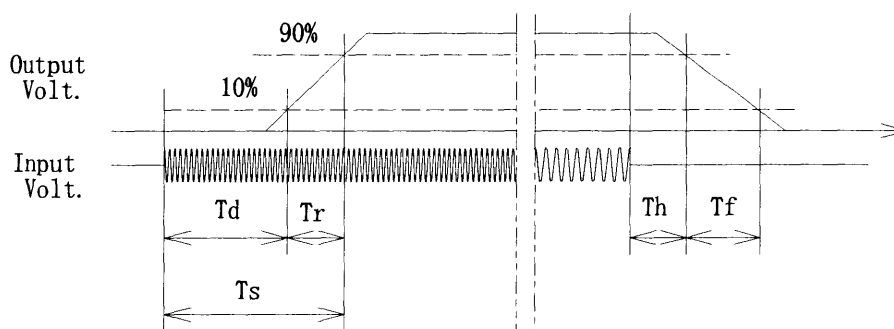
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	35.5	1.3	36.8	22.8	35.8
100 %	35.3	1.5	36.8	12.6	39.4

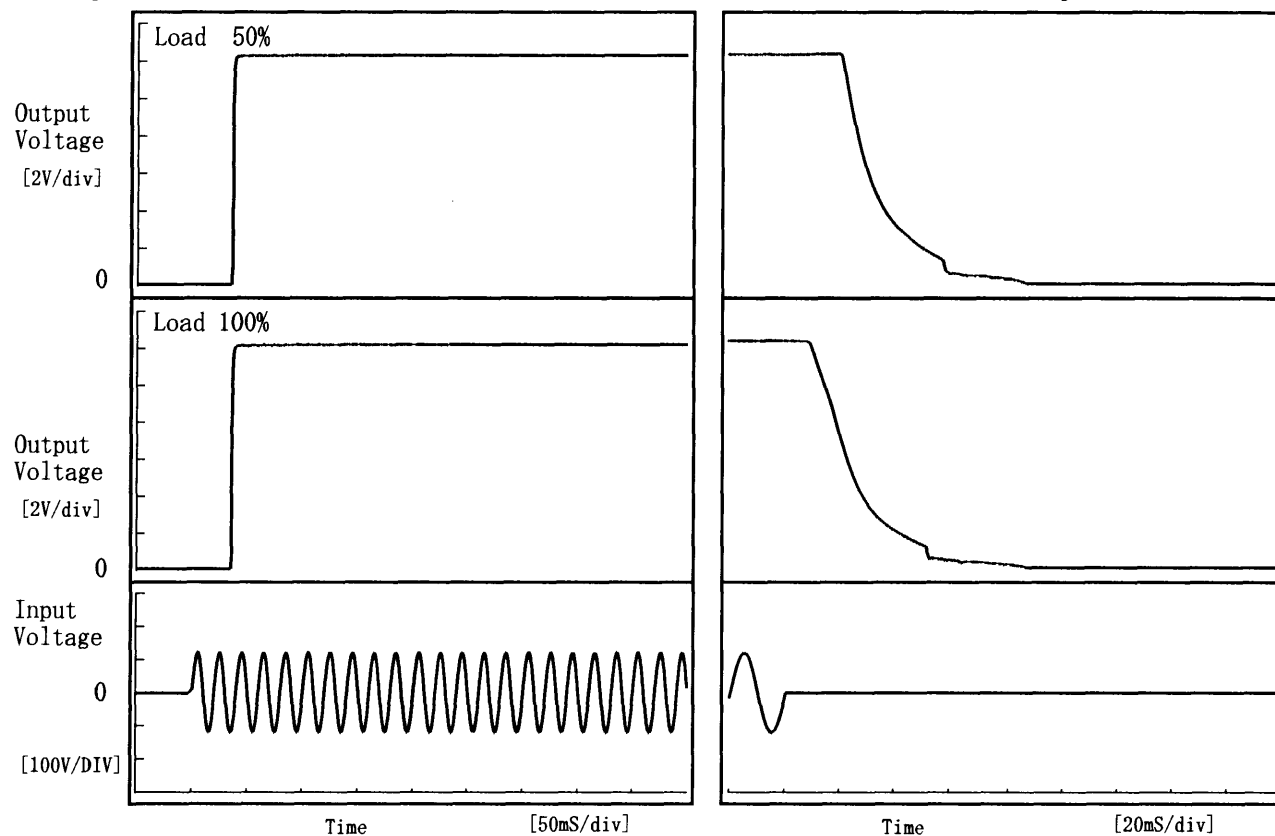


COSEL

Model	YW1012A	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	−12.0V0.45A		

1. Graph

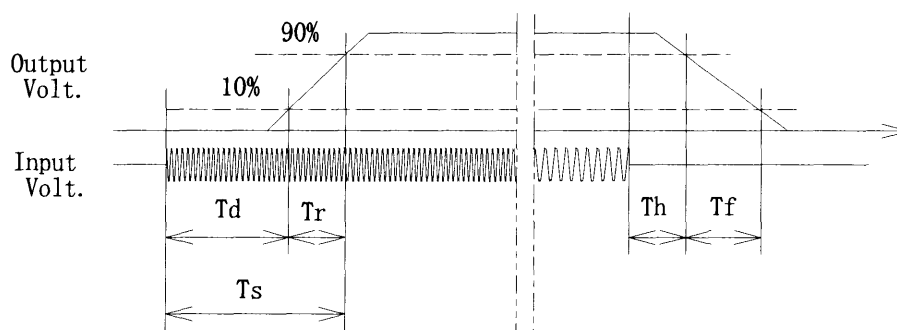
Input Volt. 85 V



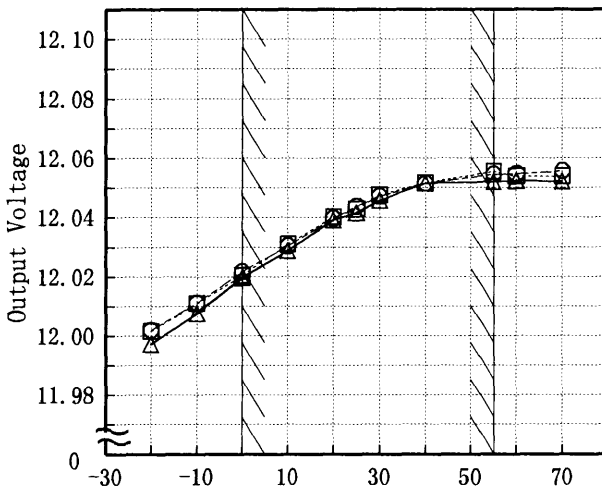
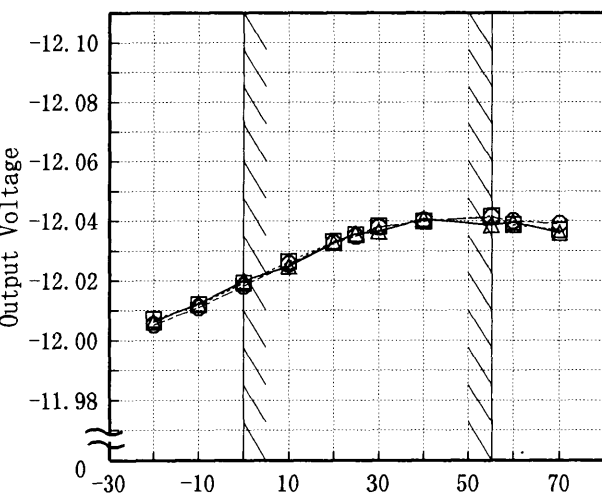
2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	35.3	1.3	36.5	23.1	35.3
100 %	35.5	1.3	36.8	13.0	38.8



COSEL

Model		YW1012A																																																		
Item		Ambient Temperature Drift 周囲温度変動																																																		
Object		+12.0V0.45A																																																		
1. Graph		2. Values																																																		
<div><div>—△— Input Volt. 85V - -□- - Input Volt. 100V - -○- - Input Volt. 132V</div><div></div><div>Output Voltage [V]</div><div>Ambient Temperature [°C]</div><div>Load 100%</div></div> <table><thead><tr><th rowspan="2">Temperature [°C]</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></thead><tbody><tr><td>-20</td><td>11.997</td><td>12.002</td><td>12.002</td></tr><tr><td>-10</td><td>12.007</td><td>12.011</td><td>12.011</td></tr><tr><td>0</td><td>12.020</td><td>12.020</td><td>12.022</td></tr><tr><td>10</td><td>12.029</td><td>12.031</td><td>12.030</td></tr><tr><td>20</td><td>12.039</td><td>12.040</td><td>12.040</td></tr><tr><td>25</td><td>12.042</td><td>12.043</td><td>12.044</td></tr><tr><td>30</td><td>12.046</td><td>12.048</td><td>12.047</td></tr><tr><td>40</td><td>12.051</td><td>12.052</td><td>12.052</td></tr><tr><td>55</td><td>12.052</td><td>12.055</td><td>12.055</td></tr><tr><td>60</td><td>12.052</td><td>12.054</td><td>12.055</td></tr><tr><td>70</td><td>12.052</td><td>12.054</td><td>12.056</td></tr></tbody></table>		Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	11.997	12.002	12.002	-10	12.007	12.011	12.011	0	12.020	12.020	12.022	10	12.029	12.031	12.030	20	12.039	12.040	12.040	25	12.042	12.043	12.044	30	12.046	12.048	12.047	40	12.051	12.052	12.052	55	12.052	12.055	12.055	60	12.052	12.054	12.055	70	12.052	12.054	12.056
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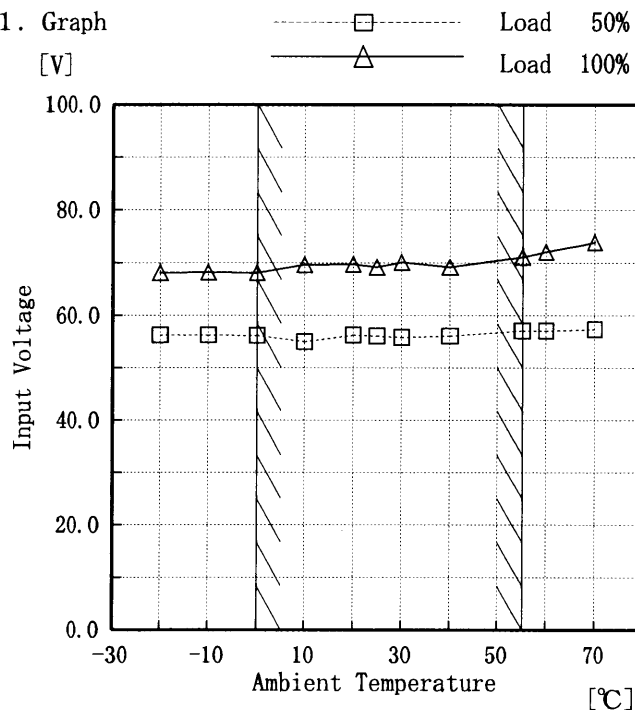
Model YW1012A

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

Object +12.0V0.45A

Testing Circuitry Figure A

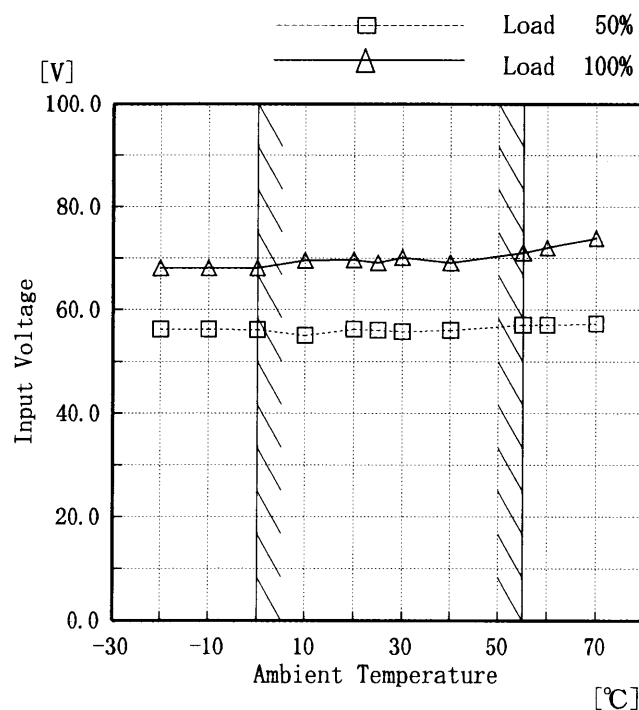
1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	56.3	68.1
-10	56.2	68.1
0	56.2	68.1
10	55.0	69.6
20	56.2	69.7
25	56.0	69.1
30	55.8	70.1
40	56.0	69.1
55	57.1	71.1
60	57.0	72.1
70	57.4	73.9

Object -12.0V0.45A



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	56.3	68.1
-10	56.2	68.1
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55	57.1	71.1
60	57.0	72.1
70	57.4	73.9

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		YW1012A		Testing Circuitry Figure A																																			
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																					
Object		+12.0V0.45A																																					
1. Graph		<div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 100 V</p>		2.Values																																			
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Model	YW1012A	Temperature 25℃	
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry Figure A	
Object	+12.0V0.45A		
1. Graph		2.Values	
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COSEL

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Model	YW1012A	Temperature	25℃																																																			
Item	Oscillator Frequency 発振周波数	Testing Circuitry	Figure A																																																			
Object	+12.0V0.45A																																																					
1. Graph		2. Values																																																				
<div><div><div>△</div><div>—</div></div><div>Input Volt. 85 V</div><div><div>□</div><div>- - -</div></div><div>Input Volt. 100 V</div><div><div>○</div><div>⋯</div></div><div>Input Volt. 132 V</div></div> <div><div><div>Oscillator Frequency [KHz]</div><div>10000</div><div>1000</div><div>100</div></div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div></div><div><div>Load Current [A]</div><div></div></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>		<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>0.000</td><td>962</td><td>980</td><td>1005</td></tr><tr><td>0.080</td><td>645</td><td>673</td><td>749</td></tr><tr><td>0.160</td><td>475</td><td>521</td><td>587</td></tr><tr><td>0.240</td><td>385</td><td>419</td><td>478</td></tr><tr><td>0.320</td><td>315</td><td>350</td><td>401</td></tr><tr><td>0.400</td><td>267</td><td>299</td><td>348</td></tr><tr><td>0.450</td><td>244</td><td>272</td><td>316</td></tr><tr><td>0.495</td><td>227</td><td>253</td><td>299</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 Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Oscillator Frequency [KHz]			0.000	962	980	1005	0.080	645	673	749	0.160	475	521	587	0.240	385	419	478	0.320	315	350	401	0.400	267	299	348	0.450	244	272	316	0.495	227	253	299	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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Model	YW1012A	Temperature	25℃
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	0.16	0.19	0.25
(B) IEC60950	0.16	0.19	0.26

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。

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Model		YS1012A	Temperature Testing Circuitry	25℃ Figure C
Item		Line Noise Tolerance 入力雑音耐量		
Object		_____		

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 %

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Model	YW1012A	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object	_____	

1. Graph

Remarks

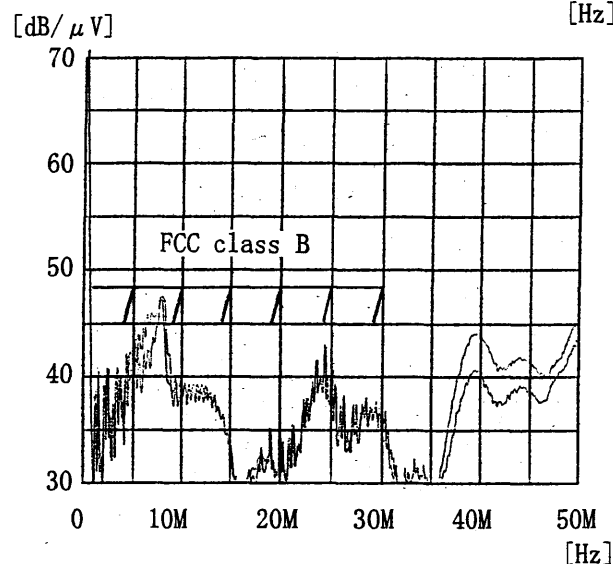
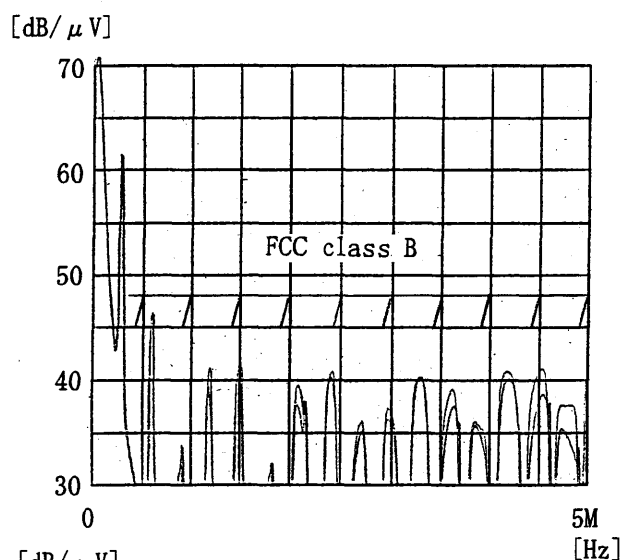
Input Volt. 120 V

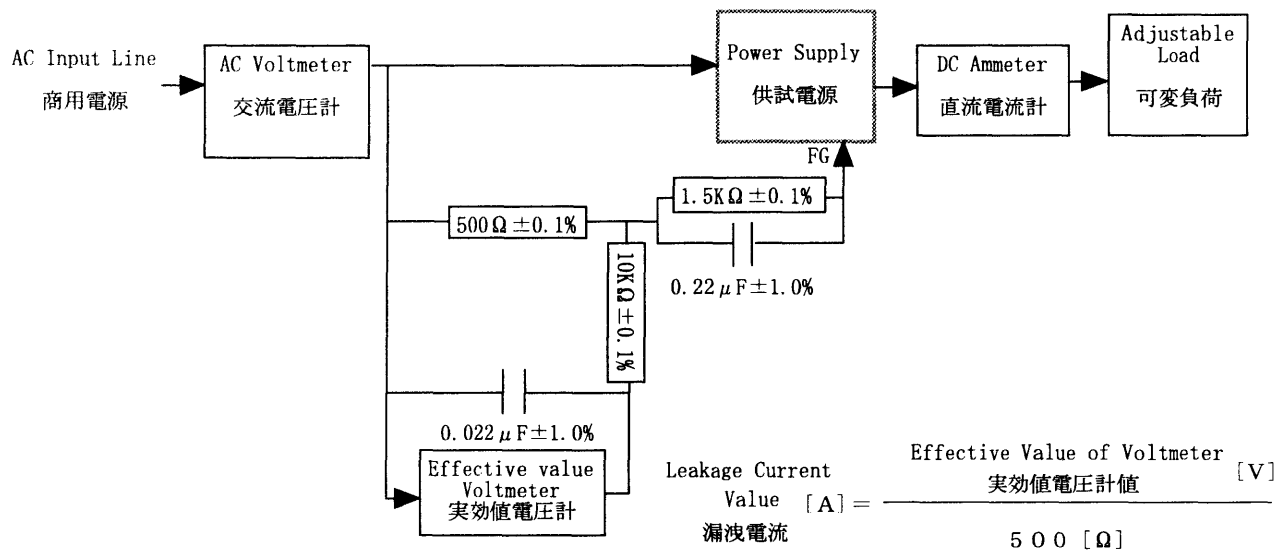
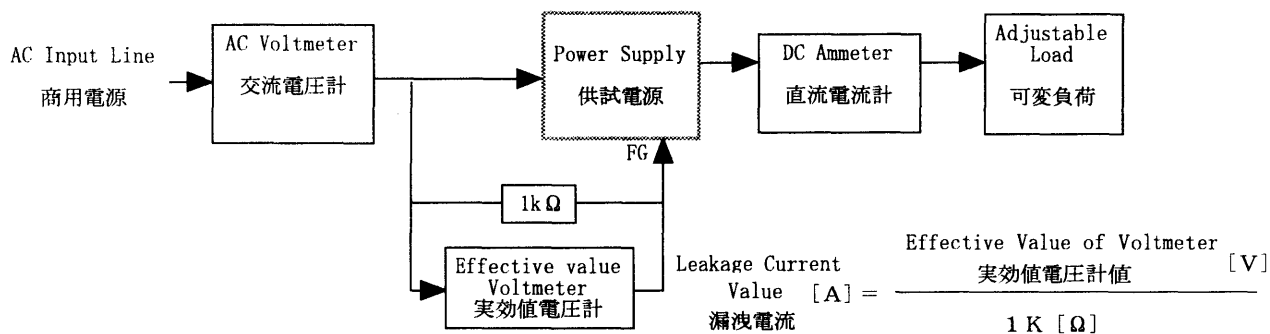
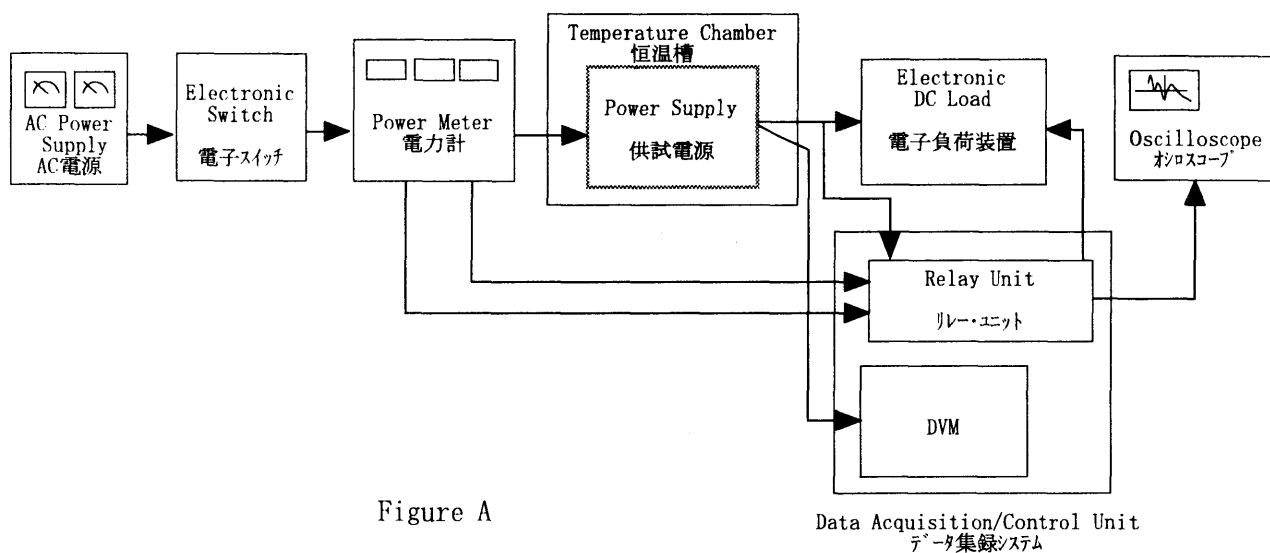
Load 100 %

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





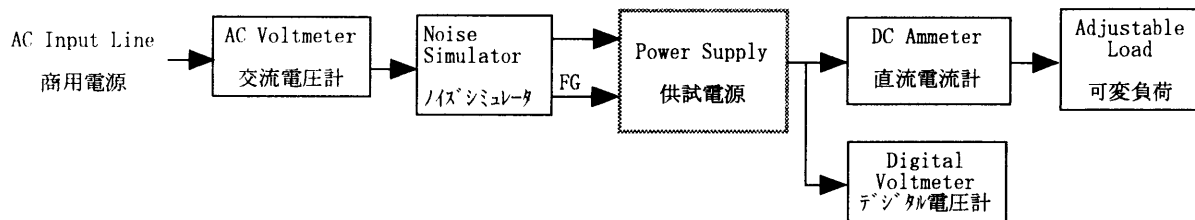


Figure C

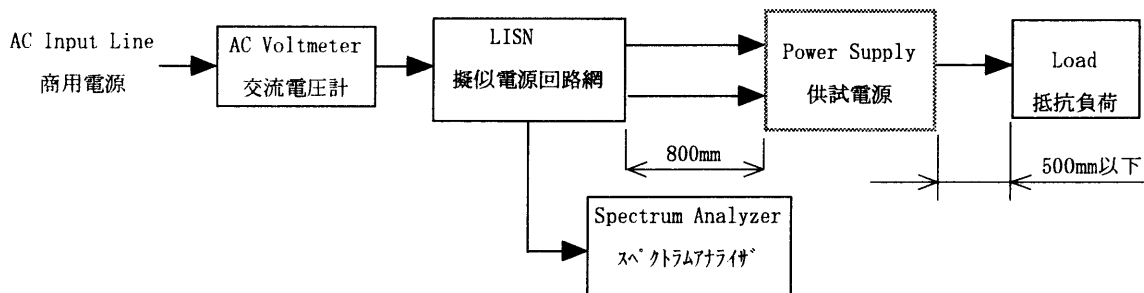


Figure D

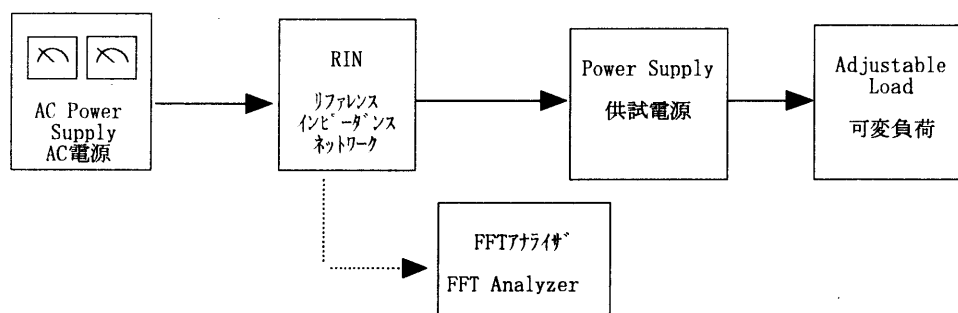


Figure E