

COSEL

TEST DATA OF RMB50A-2
(100V INPUT)

Regulated DC Power Supply

Date : Mar. 5. 1999

Approved by : H. Takashima
Design Manager

Prepared by : H. Asano
Design Engineer

コーセル株式会社

COSEL CO., LTD.



C O N T E N T S

1. Line Regulation	1
静的入力変動	
2. Efficiency (by Input Voltage)	2
効率(入力電圧特性)	
3. Power Factor (by Input Voltage)	3
力率(入力電圧特性)	
4. Hold-Up Time	4
出力保持時間	
5. Instantaneous Interruption Compensation	6
瞬時停電保障	
6. Load Regulation	8
静的負荷変動	
7. Ripple Voltage (by Load Current)	9
リップル電圧(負荷特性)	
8. Ripple-Noise	11
リップルノイズ	
9. Overcurrent Protection	13
過電流保護	
10. Overvoltage Protection	14
過電圧保護	
11. Inrush Current	15
突入電流	
12. Dynamic Load Responce	16
動的負荷変動	
13. Rise and Fall Time	18
立ち上り、立ち下がり時間	
14. Ambient Temperature Drift	20
周囲温度変動	
15. Minimum Input Voltage for Regulated Output Voltage	21
最低レギュレーション電圧	
16. Ripple Voltage (by Ambient Temperature)	22
リップル電圧(周囲温度特性)	
17. Time Lapse Drift	23
経時ドリフト	
18. Output Voltage Accuracy	24
定電圧精度	
19. Condensation	25
結露特性	
20. Leakage Current	27
漏洩電流	
21. Conducted Emission	28
雑音端子電圧	
22. Figure of Testing Circuitry	29
測定回路図	

(Final Page 30)

COSEL

Model	RMB50A-2
Item	Line Regulation 静的入力変動
Object	+5.0V 1.50A
1. Graph	<p style="text-align: center;">□ Load 50% △ Load 100%</p>
Object	+24V 1.80A
1. Graph	<p style="text-align: center;">□ Load 50% △ Load 100%</p>
<p>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。</p>	

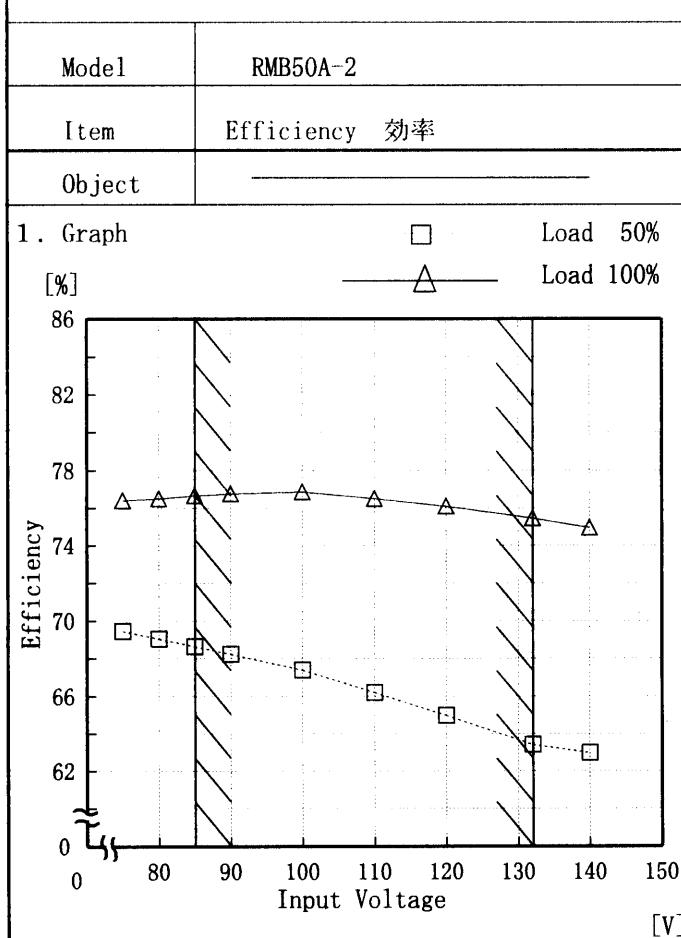
Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75.0	5.102	5.093
80.0	5.101	5.093
85.0	5.101	5.093
90.0	5.101	5.093
100.0	5.101	5.093
110.0	5.101	5.093
120.0	5.101	5.093
132.0	5.101	5.093
140.0	5.101	5.093
—	—	—
—	—	—
—	—	—

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75.0	24.117	24.114
80.0	24.117	24.114
85.0	24.117	24.114
90.0	24.117	24.114
100.0	24.117	24.114
110.0	24.117	24.114
120.0	24.117	24.114
132.0	24.116	24.114
140.0	24.116	24.113
—	—	—
—	—	—
—	—	—

COSEL

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
75	69.5	76.4
80	69.1	76.5
85	68.6	76.6
90	68.2	76.8
100	67.4	76.9
110	66.2	76.5
120	65.0	76.1
132	63.4	75.5
140	63.0	75.0

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

(注)斜線は定格入力電圧範囲を示す。

COSEL

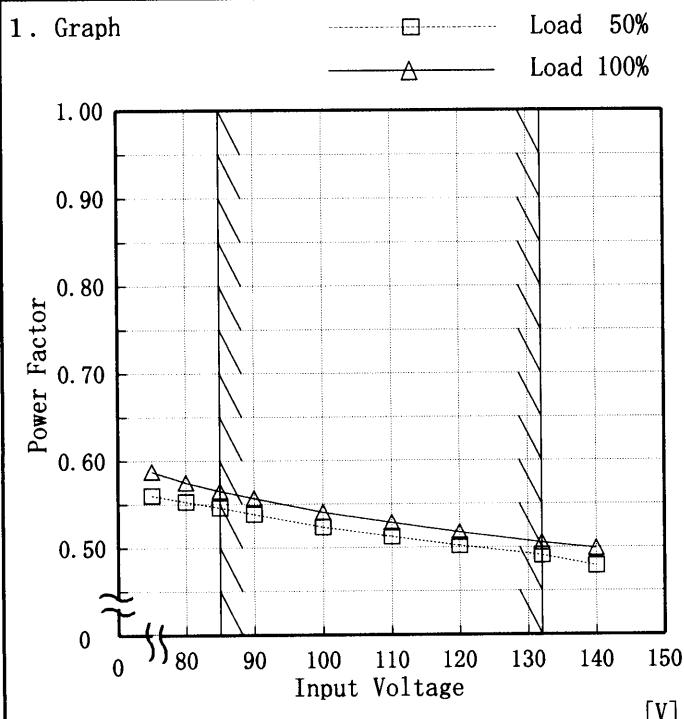
Model

RMB50A-2

Item

Power Factor (by Input Voltage)
力率(入力電圧特性)Temperature 25°C
Testing Circuitry Figure A

Object



2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.56	0.59
80	0.55	0.58
85	0.55	0.57
90	0.54	0.56
100	0.52	0.54
110	0.51	0.53
120	0.50	0.52
132	0.49	0.51
140	0.48	0.50

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

(注) 斜線は定格入力電圧範囲を示す。

COSEL

Model	RMB50A-2	Temperature Testing Circuitry	25°C Figure A																														
Item	Hold-Up Time 出力保持時間																																
Object	+5.0V 1.5A																																
1. Graph	<p>Legend: ▲ Load 50% □ Load 100%</p> <p>Y-axis: Hold-Up Time [mS] (log scale: 1, 10, 100, 1000)</p> <p>X-axis: Input Voltage [V] (linear scale: 0, 80, 90, 100, 110, 120, 130, 140, 150)</p>																																
2. Values	<table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Load 50% [mS]</th> <th>Load 100% [mS]</th> </tr> </thead> <tbody> <tr><td>75</td><td>30</td><td>25</td></tr> <tr><td>80</td><td>34</td><td>29</td></tr> <tr><td>85</td><td>39</td><td>33</td></tr> <tr><td>90</td><td>43</td><td>37</td></tr> <tr><td>100</td><td>54</td><td>46</td></tr> <tr><td>110</td><td>65</td><td>57</td></tr> <tr><td>120</td><td>77</td><td>68</td></tr> <tr><td>132</td><td>94</td><td>83</td></tr> <tr><td>140</td><td>106</td><td>94</td></tr> </tbody> </table>			Input Voltage [V]	Load 50% [mS]	Load 100% [mS]	75	30	25	80	34	29	85	39	33	90	43	37	100	54	46	110	65	57	120	77	68	132	94	83	140	106	94
Input Voltage [V]	Load 50% [mS]	Load 100% [mS]																															
75	30	25																															
80	34	29																															
85	39	33																															
90	43	37																															
100	54	46																															
110	65	57																															
120	77	68																															
132	94	83																															
140	106	94																															
<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	RMB50A-2	Temperature Testing Circuitry	25°C Figure A																																
Item	Hold-Up Time 出力保持時間																																		
Object	+24.0V 1.8A																																		
1. Graph	<p style="text-align: center;">—△— Load 50% —□— Load 100%</p>																																		
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Hold-Up Time [mS]</th> <th>Hold-Up Time [mS]</th> </tr> </thead> <tbody> <tr><td>75</td><td>39</td><td>19</td></tr> <tr><td>80</td><td>45</td><td>23</td></tr> <tr><td>85</td><td>51</td><td>27</td></tr> <tr><td>90</td><td>58</td><td>31</td></tr> <tr><td>100</td><td>73</td><td>40</td></tr> <tr><td>110</td><td>89</td><td>50</td></tr> <tr><td>120</td><td>107</td><td>62</td></tr> <tr><td>132</td><td>131</td><td>77</td></tr> <tr><td>140</td><td>148</td><td>88</td></tr> </tbody> </table>			Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [mS]	Hold-Up Time [mS]	75	39	19	80	45	23	85	51	27	90	58	31	100	73	40	110	89	50	120	107	62	132	131	77	140	148	88
Input Voltage [V]	Load 50%	Load 100%																																	
	Hold-Up Time [mS]	Hold-Up Time [mS]																																	
75	39	19																																	
80	45	23																																	
85	51	27																																	
90	58	31																																	
100	73	40																																	
110	89	50																																	
120	107	62																																	
132	131	77																																	
140	148	88																																	

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

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

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

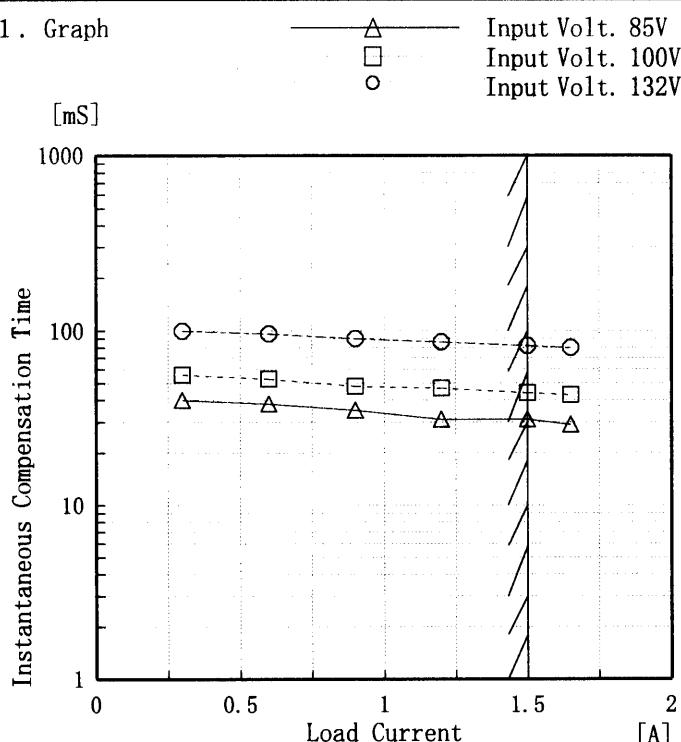
(注)斜線は定格入力電圧範囲を示す。

COSEL

Model	RMB50A-2
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+5.0V 1.50A

Testing Circuitry Figure A

1. Graph



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

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

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

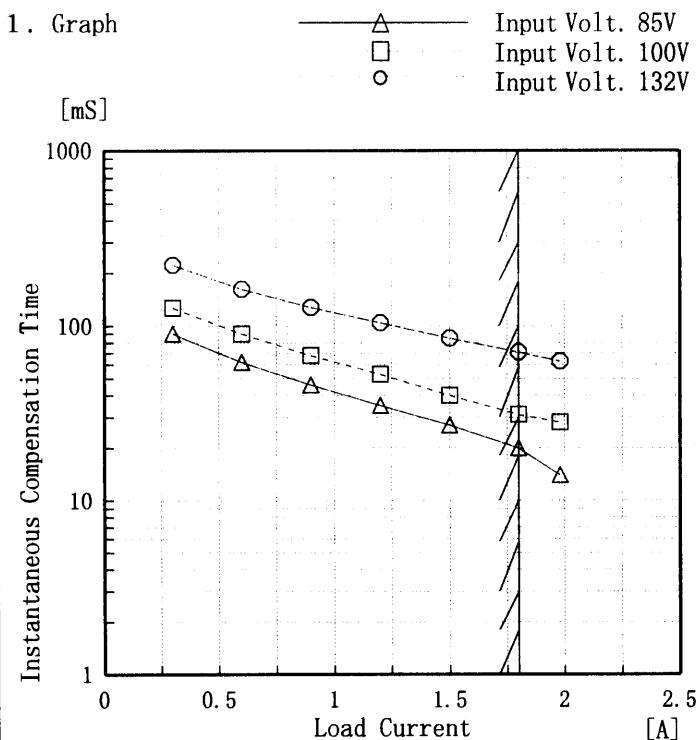
(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.0	—	—	—
0.30	40	56	100
0.60	38	53	96
0.90	35	48	90
1.20	31	47	86
1.50	31	44	82
1.65	29	43	80
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSSEL

Model	RMB50A-2
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+24.0V 1.80A



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

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

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注) 斜線は定格負荷電流範囲を示す。

Testing Circuitry Figure A

2. Values

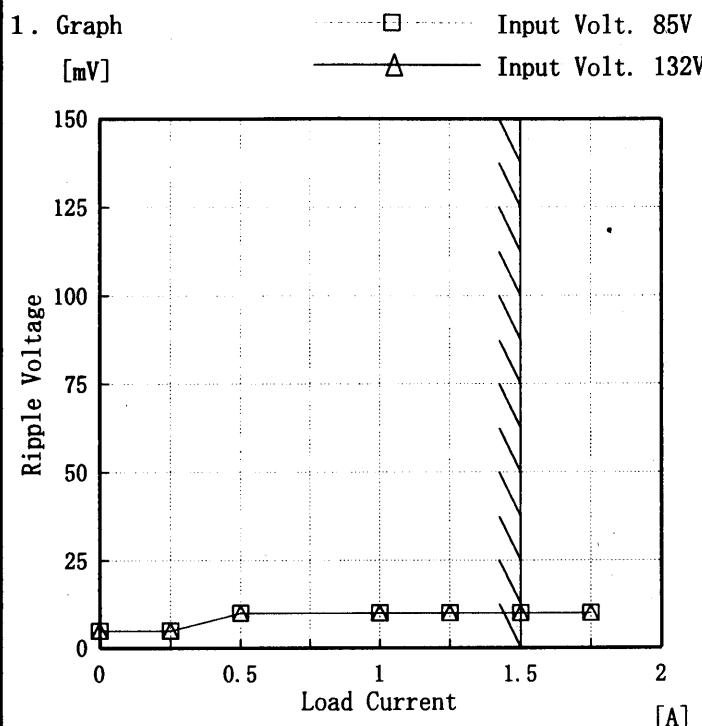
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.0	—	—	—
0.30	90	127	223
0.60	62	90	163
0.90	46	68	128
1.20	35	53	104
1.50	27	40	85
1.80	20	31	71
1.98	14	28	63
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	RMB50A-2	Temperature 25°C Testing Circuitry Figure A																																																		
Item	Load Regulation 靜的負荷変動																																																			
Object	+5.0V1.5A																																																			
1. Graph	<p>Legend: ▲ Input Volt. 85 V, □ Input Volt. 100 V, ○ Input Volt. 132 V</p>																																																			
2. Values	<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>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>5.113</td><td>5.113</td><td>5.113</td></tr> <tr><td>0.30</td><td>5.107</td><td>5.107</td><td>5.107</td></tr> <tr><td>0.60</td><td>5.103</td><td>5.103</td><td>5.103</td></tr> <tr><td>0.90</td><td>5.099</td><td>5.099</td><td>5.099</td></tr> <tr><td>1.20</td><td>5.096</td><td>5.095</td><td>5.095</td></tr> <tr><td>1.50</td><td>5.093</td><td>5.092</td><td>5.092</td></tr> <tr><td>1.65</td><td>5.091</td><td>5.091</td><td>5.091</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> </tbody> </table>				Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.00	5.113	5.113	5.113	0.30	5.107	5.107	5.107	0.60	5.103	5.103	5.103	0.90	5.099	5.099	5.099	1.20	5.096	5.095	5.095	1.50	5.093	5.092	5.092	1.65	5.091	5.091	5.091	—	—	—	—	—	—	—	—	—	—	—	—	
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																	
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																	
0.00	5.113	5.113	5.113																																																	
0.30	5.107	5.107	5.107																																																	
0.60	5.103	5.103	5.103																																																	
0.90	5.099	5.099	5.099																																																	
1.20	5.096	5.095	5.095																																																	
1.50	5.093	5.092	5.092																																																	
1.65	5.091	5.091	5.091																																																	
—	—	—	—																																																	
—	—	—	—																																																	
—	—	—	—																																																	
Object	+24V1.8A	<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>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>24.121</td><td>24.121</td><td>24.121</td></tr> <tr><td>0.30</td><td>24.120</td><td>24.120</td><td>24.119</td></tr> <tr><td>0.60</td><td>24.119</td><td>24.119</td><td>24.118</td></tr> <tr><td>0.90</td><td>24.118</td><td>24.118</td><td>24.117</td></tr> <tr><td>1.20</td><td>24.117</td><td>24.117</td><td>24.116</td></tr> <tr><td>1.50</td><td>24.116</td><td>24.116</td><td>24.115</td></tr> <tr><td>1.80</td><td>24.116</td><td>24.115</td><td>24.114</td></tr> <tr><td>1.98</td><td>24.115</td><td>24.115</td><td>24.114</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]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.00	24.121	24.121	24.121	0.30	24.120	24.120	24.119	0.60	24.119	24.119	24.118	0.90	24.118	24.118	24.117	1.20	24.117	24.117	24.116	1.50	24.116	24.116	24.115	1.80	24.116	24.115	24.114	1.98	24.115	24.115	24.114	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																	
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																	
0.00	24.121	24.121	24.121																																																	
0.30	24.120	24.120	24.119																																																	
0.60	24.119	24.119	24.118																																																	
0.90	24.118	24.118	24.117																																																	
1.20	24.117	24.117	24.116																																																	
1.50	24.116	24.116	24.115																																																	
1.80	24.116	24.115	24.114																																																	
1.98	24.115	24.115	24.114																																																	
—	—	—	—																																																	
—	—	—	—																																																	
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	RMB50A-2
Item	Ripple Voltage (by Load Current) リップル電圧(負荷電流特性)
Object	+5.0V 1.50A

Temperature
Testing Circuitry 25°C
Figure A

2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.00	5	5
0.25	5	5
0.50	10	10
1.00	10	10
1.25	10	10
1.50	10	10
1.75	10	10
—	—	—
—	—	—
—	—	—
—	—	—

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

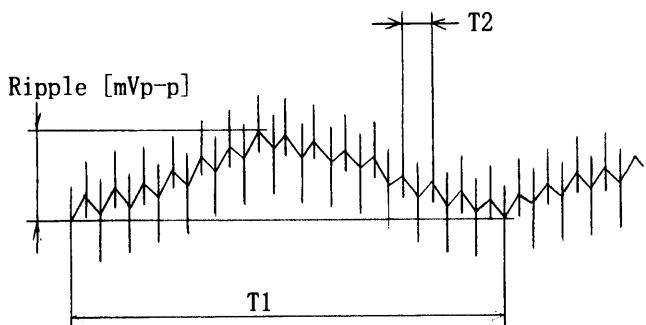
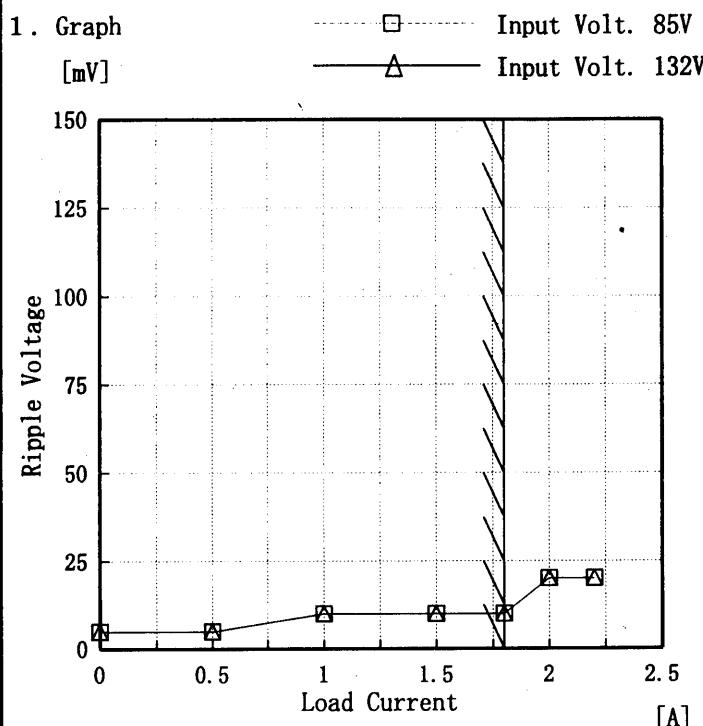


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

COSEL

Model	RMB50A-2
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)
Object	+24V 1.80A

Temperature 25°C
Testing Circuitry Figure A



2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.00	5	5
0.50	5	5
1.00	10	10
1.50	10	10
1.80	10	10
2.00	20	20
2.20	20	20
—	—	—
—	—	—
—	—	—
—	—	—

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]

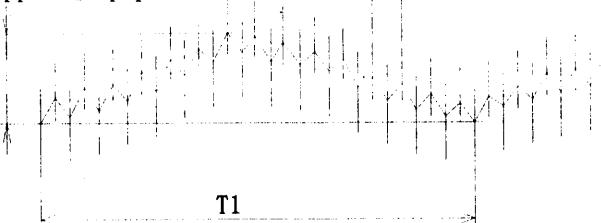


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

COSEL

Model	RMB50A-2	Temperature Testing Circuitry	25°C Figure A																																				
Item	Ripple-Noise リップルノイズ																																						
Object	+5.0V 1.50A																																						
1. Graph			2. Values																																				
			<table border="1"> <thead> <tr> <th>Load current [A]</th> <th>Input Volt. 85 [V] Ripple-Noise [mV]</th> <th>Input Volt. 132 [V] Ripple-Noise [mV]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>20</td><td>20</td></tr> <tr><td>0.25</td><td>20</td><td>20</td></tr> <tr><td>0.50</td><td>20</td><td>20</td></tr> <tr><td>1.00</td><td>20</td><td>20</td></tr> <tr><td>1.25</td><td>20</td><td>20</td></tr> <tr><td>1.50</td><td>30</td><td>30</td></tr> <tr><td>1.75</td><td>30</td><td>30</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> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load current [A]	Input Volt. 85 [V] Ripple-Noise [mV]	Input Volt. 132 [V] Ripple-Noise [mV]	0.00	20	20	0.25	20	20	0.50	20	20	1.00	20	20	1.25	20	20	1.50	30	30	1.75	30	30	—	—	—	—	—	—	—	—	—	—	—	—
Load current [A]	Input Volt. 85 [V] Ripple-Noise [mV]	Input Volt. 132 [V] Ripple-Noise [mV]																																					
0.00	20	20																																					
0.25	20	20																																					
0.50	20	20																																					
1.00	20	20																																					
1.25	20	20																																					
1.50	30	30																																					
1.75	30	30																																					
—	—	—																																					
—	—	—																																					
—	—	—																																					
—	—	—																																					

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

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

リップルノイズは、下図 p - p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング、周期

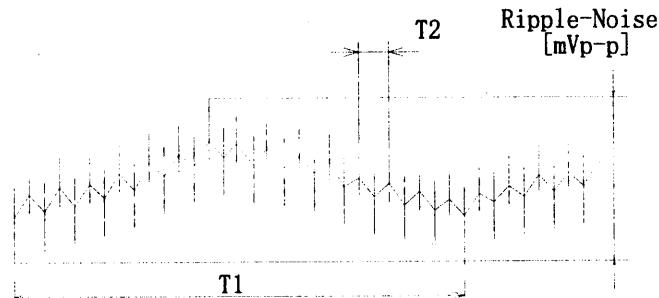


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

COSEL

Model	RMB50A-2	Temperature Testing Circuitry	25°C																																						
Item	Ripple-Noise リップルノイズ		Figure A																																						
Object	+24V 1.80A																																								
1. Graph			2. Values																																						
<p style="text-align: center;">□ Input Volt. 85V [mV] —△— Input Volt. 132V</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-Noise [mV]</th> <th>Ripple-Noise [mV]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>20</td><td>20</td></tr> <tr><td>0.50</td><td>20</td><td>20</td></tr> <tr><td>1.00</td><td>20</td><td>20</td></tr> <tr><td>1.50</td><td>20</td><td>20</td></tr> <tr><td>1.80</td><td>20</td><td>20</td></tr> <tr><td>2.00</td><td>30</td><td>30</td></tr> <tr><td>2.20</td><td>30</td><td>30</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> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple-Noise [mV]	Ripple-Noise [mV]	0.00	20	20	0.50	20	20	1.00	20	20	1.50	20	20	1.80	20	20	2.00	30	30	2.20	30	30	—	—	—	—	—	—	—	—	—	—	—	—
Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
	Ripple-Noise [mV]	Ripple-Noise [mV]																																							
0.00	20	20																																							
0.50	20	20																																							
1.00	20	20																																							
1.50	20	20																																							
1.80	20	20																																							
2.00	30	30																																							
2.20	30	30																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							
<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>																																									
<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>																																									

COSSEL

Model	RMB50A-2	Temperature 25°C Testing Circuitry Figure A																																																										
Item	Overcurrent Protection 過電流保護																																																											
Object	+5.0V 1.50A																																																											
1. Graph	<p>[V]</p> <p>Output Voltage</p> <p>Load Current [A]</p> <p>Input Volt. 85.0 V Input Volt. 100.0 V Input Volt. 132.0 V</p>																																																											
2. Values	<table border="1"> <thead> <tr> <th>Output Voltage [V]</th> <th>Input Volt. 85.0[V]</th> <th>Input Volt. 100.0[V]</th> <th>Input Volt. 132.0[V]</th> </tr> <tr> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>4.75</td><td>3.799</td><td>3.775</td><td>3.787</td></tr> <tr><td>4.50</td><td>3.814</td><td>3.789</td><td>3.796</td></tr> <tr><td>4.00</td><td>3.659</td><td>3.642</td><td>3.644</td></tr> <tr><td>3.50</td><td>3.353</td><td>3.344</td><td>3.344</td></tr> <tr><td>3.00</td><td>2.997</td><td>2.992</td><td>2.991</td></tr> <tr><td>2.50</td><td>2.523</td><td>2.519</td><td>2.516</td></tr> <tr><td>2.00</td><td>2.047</td><td>2.044</td><td>2.041</td></tr> <tr><td>1.50</td><td>1.549</td><td>1.544</td><td>1.543</td></tr> <tr><td>1.00</td><td>1.048</td><td>1.043</td><td>1.041</td></tr> <tr><td>0.50</td><td>0.527</td><td>0.526</td><td>0.527</td></tr> <tr><td>0.00</td><td>0.316</td><td>0.315</td><td>0.315</td></tr> </tbody> </table>				Output Voltage [V]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	Load Current [A]	Load Current [A]	Load Current [A]	Load Current [A]	5.00	-	-	-	4.75	3.799	3.775	3.787	4.50	3.814	3.789	3.796	4.00	3.659	3.642	3.644	3.50	3.353	3.344	3.344	3.00	2.997	2.992	2.991	2.50	2.523	2.519	2.516	2.00	2.047	2.044	2.041	1.50	1.549	1.544	1.543	1.00	1.048	1.043	1.041	0.50	0.527	0.526	0.527	0.00	0.316	0.315	0.315
Output Voltage [V]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																									
Load Current [A]	Load Current [A]	Load Current [A]	Load Current [A]																																																									
5.00	-	-	-																																																									
4.75	3.799	3.775	3.787																																																									
4.50	3.814	3.789	3.796																																																									
4.00	3.659	3.642	3.644																																																									
3.50	3.353	3.344	3.344																																																									
3.00	2.997	2.992	2.991																																																									
2.50	2.523	2.519	2.516																																																									
2.00	2.047	2.044	2.041																																																									
1.50	1.549	1.544	1.543																																																									
1.00	1.048	1.043	1.041																																																									
0.50	0.527	0.526	0.527																																																									
0.00	0.316	0.315	0.315																																																									
Object	+24V 1.80A																																																											
1. Graph	<p>[V]</p> <p>Output Voltage</p> <p>Load Current [A]</p> <p>Input Volt. 85.0 V Input Volt. 100.0 V Input Volt. 132.0 V</p>																																																											
2. Values	<table border="1"> <thead> <tr> <th>Output Voltage [V]</th> <th>Input Volt. 85.0[V]</th> <th>Input Volt. 100.0[V]</th> <th>Input Volt. 132.0[V]</th> </tr> <tr> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> </tr> </thead> <tbody> <tr><td>24.00</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>22.80</td><td>2.529</td><td>2.551</td><td>2.481</td></tr> <tr><td>21.60</td><td>2.537</td><td>2.545</td><td>2.468</td></tr> <tr><td>19.20</td><td>2.548</td><td>2.529</td><td>2.438</td></tr> <tr><td>16.80</td><td>2.591</td><td>2.550</td><td>2.449</td></tr> <tr><td>14.40</td><td>2.613</td><td>2.556</td><td>2.450</td></tr> <tr><td>12.00</td><td>2.829</td><td>2.776</td><td>2.672</td></tr> <tr><td>9.60</td><td>2.776</td><td>2.702</td><td>2.606</td></tr> <tr><td>7.20</td><td>2.658</td><td>2.587</td><td>2.522</td></tr> <tr><td>4.80</td><td>2.484</td><td>2.438</td><td>2.443</td></tr> <tr><td>2.40</td><td>2.295</td><td>2.298</td><td>2.345</td></tr> <tr><td>0.00</td><td>2.079</td><td>2.063</td><td>2.085</td></tr> </tbody> </table>				Output Voltage [V]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	Load Current [A]	Load Current [A]	Load Current [A]	Load Current [A]	24.00	-	-	-	22.80	2.529	2.551	2.481	21.60	2.537	2.545	2.468	19.20	2.548	2.529	2.438	16.80	2.591	2.550	2.449	14.40	2.613	2.556	2.450	12.00	2.829	2.776	2.672	9.60	2.776	2.702	2.606	7.20	2.658	2.587	2.522	4.80	2.484	2.438	2.443	2.40	2.295	2.298	2.345	0.00	2.079	2.063	2.085
Output Voltage [V]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																									
Load Current [A]	Load Current [A]	Load Current [A]	Load Current [A]																																																									
24.00	-	-	-																																																									
22.80	2.529	2.551	2.481																																																									
21.60	2.537	2.545	2.468																																																									
19.20	2.548	2.529	2.438																																																									
16.80	2.591	2.550	2.449																																																									
14.40	2.613	2.556	2.450																																																									
12.00	2.829	2.776	2.672																																																									
9.60	2.776	2.702	2.606																																																									
7.20	2.658	2.587	2.522																																																									
4.80	2.484	2.438	2.443																																																									
2.40	2.295	2.298	2.345																																																									
0.00	2.079	2.063	2.085																																																									
<p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																												

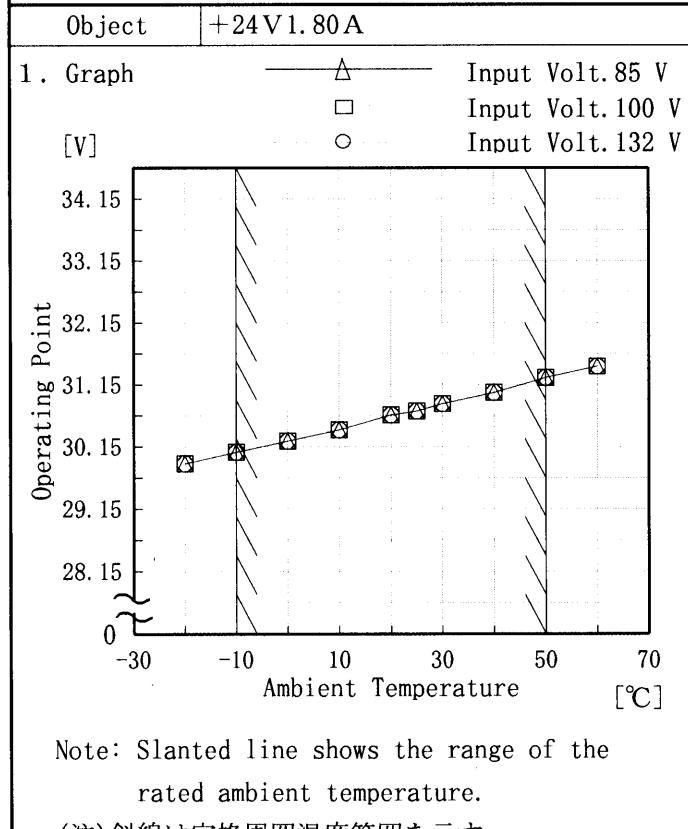
COSEL

Model	RMB50A-2
Item	Overvoltage Protection 過電圧保護
Object	+5.0V 1.50 A
1. Graph	<p>Legend:</p> <ul style="list-style-type: none"> △ Input Volt. 85 V □ Input Volt. 100 V ○ Input Volt. 132 V

Testing Circuitry Figure A

2. Values

Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	6.50	6.45	6.45
-10	6.44	6.45	6.40
0	6.45	6.39	6.39
10	6.45	6.45	6.40
20	6.44	6.40	6.40
25	6.44	6.39	6.34
30	6.44	6.45	6.39
40	6.38	6.39	6.40
50	6.38	6.39	6.39
60	6.32	6.39	6.39
-	-	-	-



2. Values

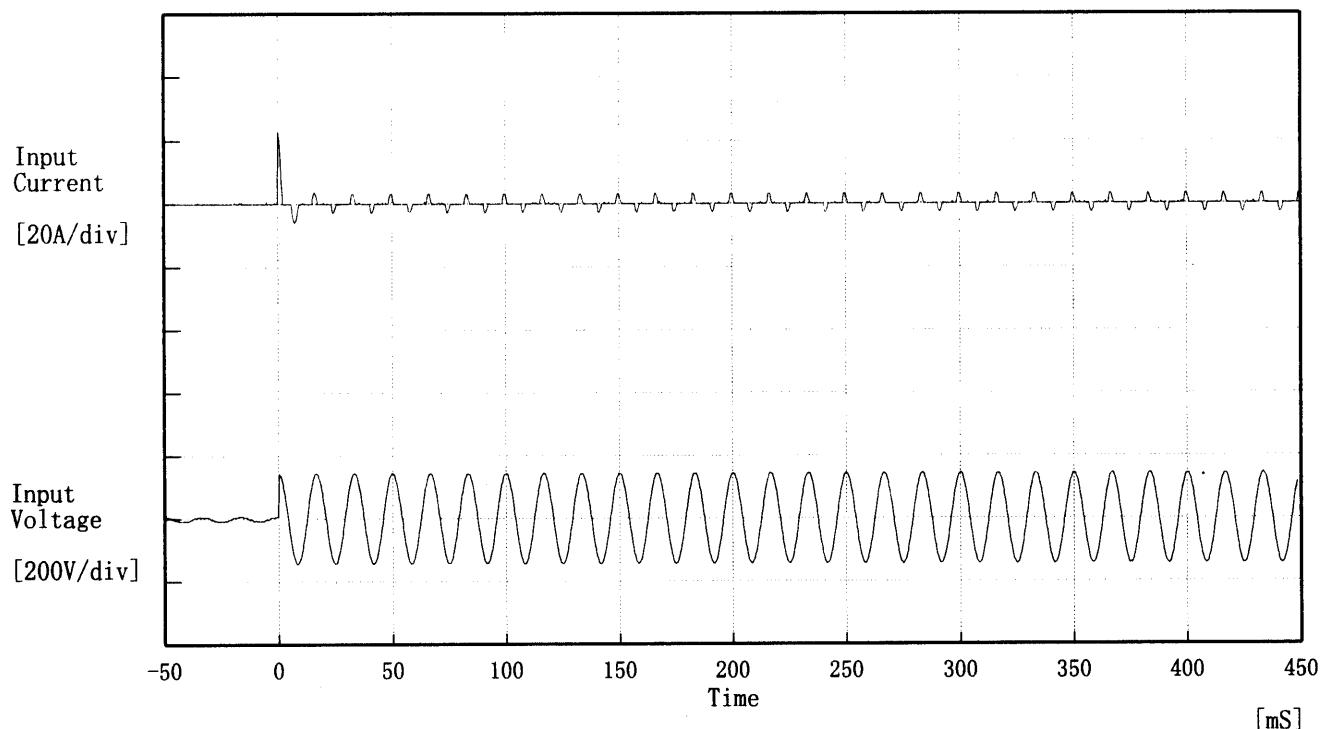
Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	29.9	29.9	29.9
-10	30.1	30.1	30.1
0	30.2	30.2	30.2
10	30.4	30.4	30.4
20	30.7	30.7	30.7
25	30.7	30.7	30.7
30	30.8	30.8	30.8
40	31.0	31.0	31.0
50	31.3	31.3	31.3
60	31.4	31.4	31.4
-	-	-	-

COSEL

Model RMB50A-2

Item Inrush Current 突入電流

Object _____

Temperature 25°C
Testing Circuitry Figure A

Input Voltage 100 V

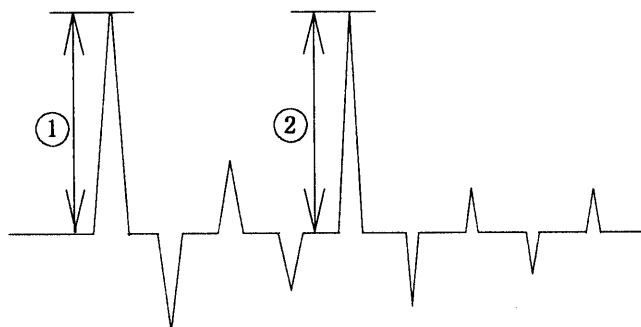
Frequency 60 Hz

Load 100 %

Inrush Current

① 22.72 [A]

② 3.12 [A]



COSEL

Model	RMB50A-2	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response 動的負荷變動		
Object	+5.0V 1.50A		

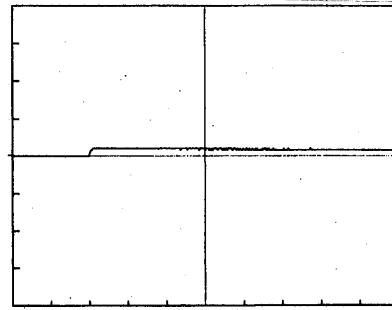
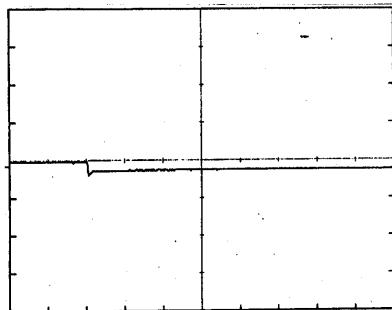
Input Volt. 100 V

Cycle 200 mS



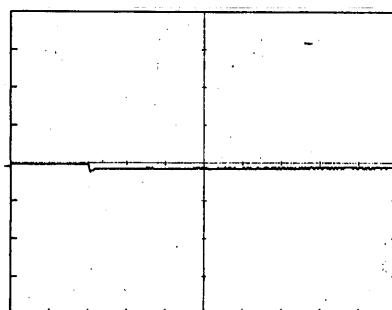
Load 0% ↔

Load 100 %

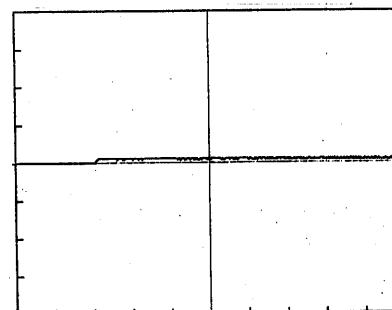


Load 0% ↔

Load 50 %



100 mV/div



10 mS/div

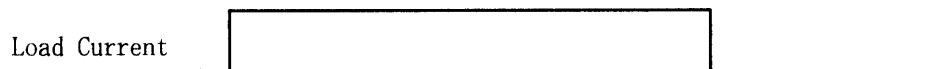
COSEL

Model	RMB50A-2
Item	Dynamic Load Response 動的負荷変動
Object	+24V 1.80A

Temperature 25°C
Testing Circuitry Figure A

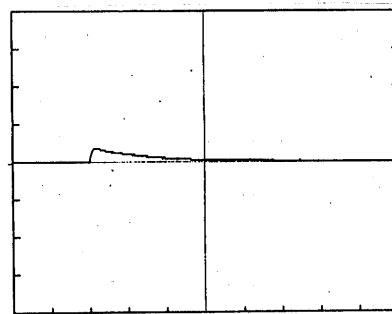
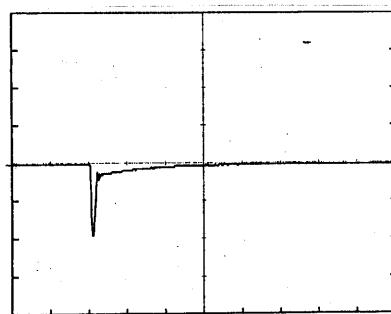
Input Volt. 100 V

Cycle 200 mS



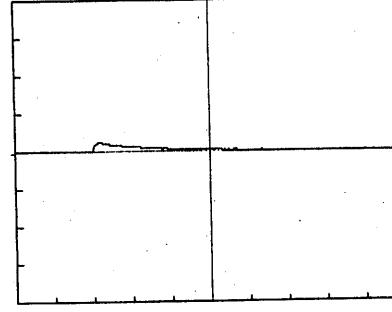
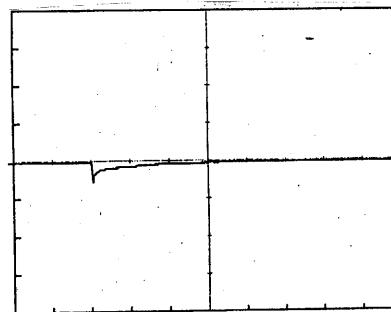
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

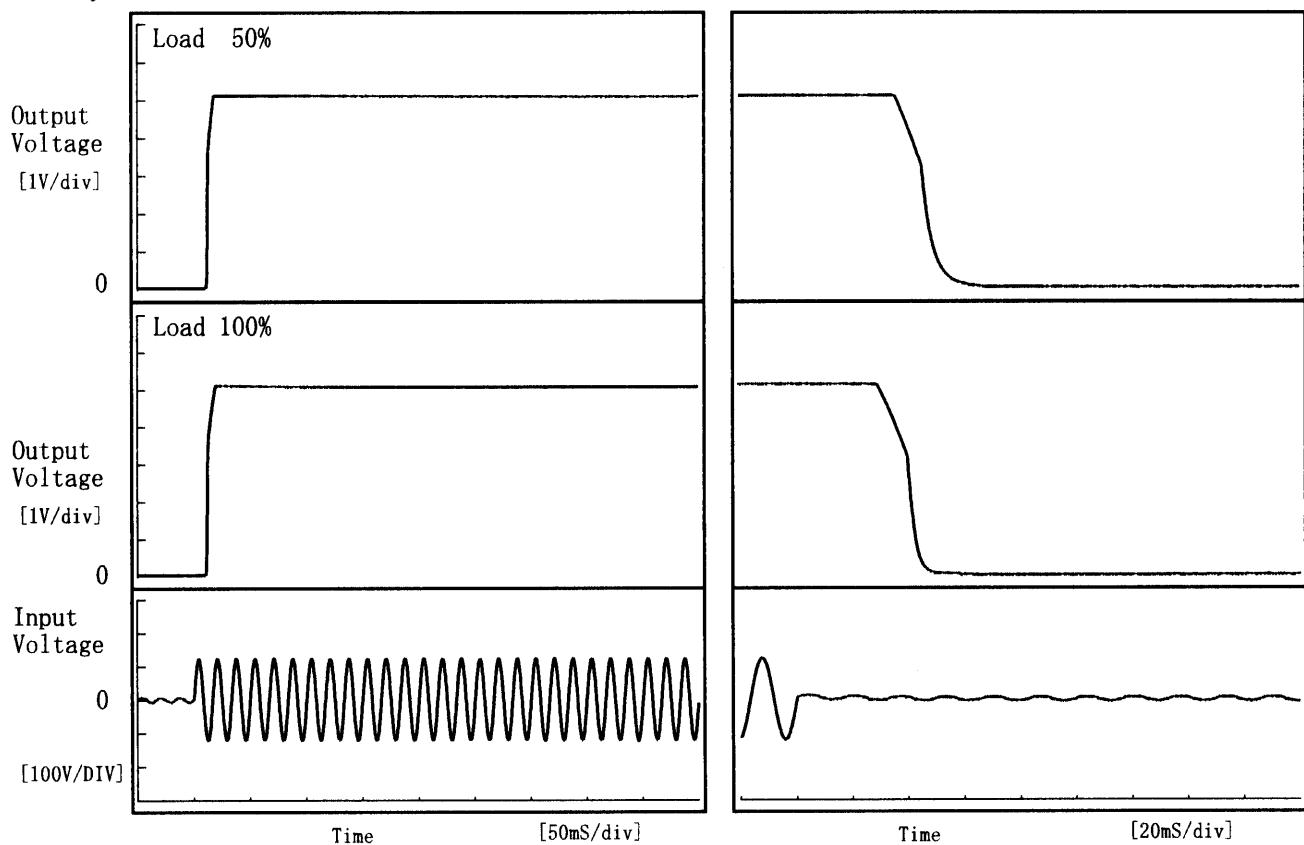
10 mS/div

COSEL

Model	RMB50A-2
Item	Rise and Fall Time 立上り、立下り時間
Object	+5.0V 1.50A

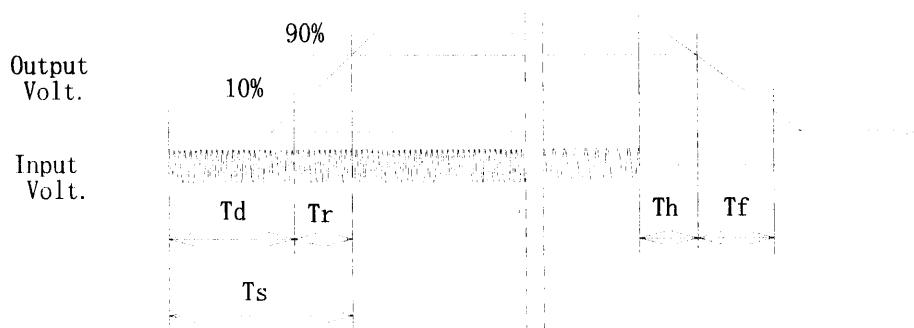
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	T _d	T _r	T _s	T _h	T _f	[mS]
50 %		11.5	4.0	15.5	38.9	13.8	
100 %		11.5	5.3	16.8	32.9	11.6	



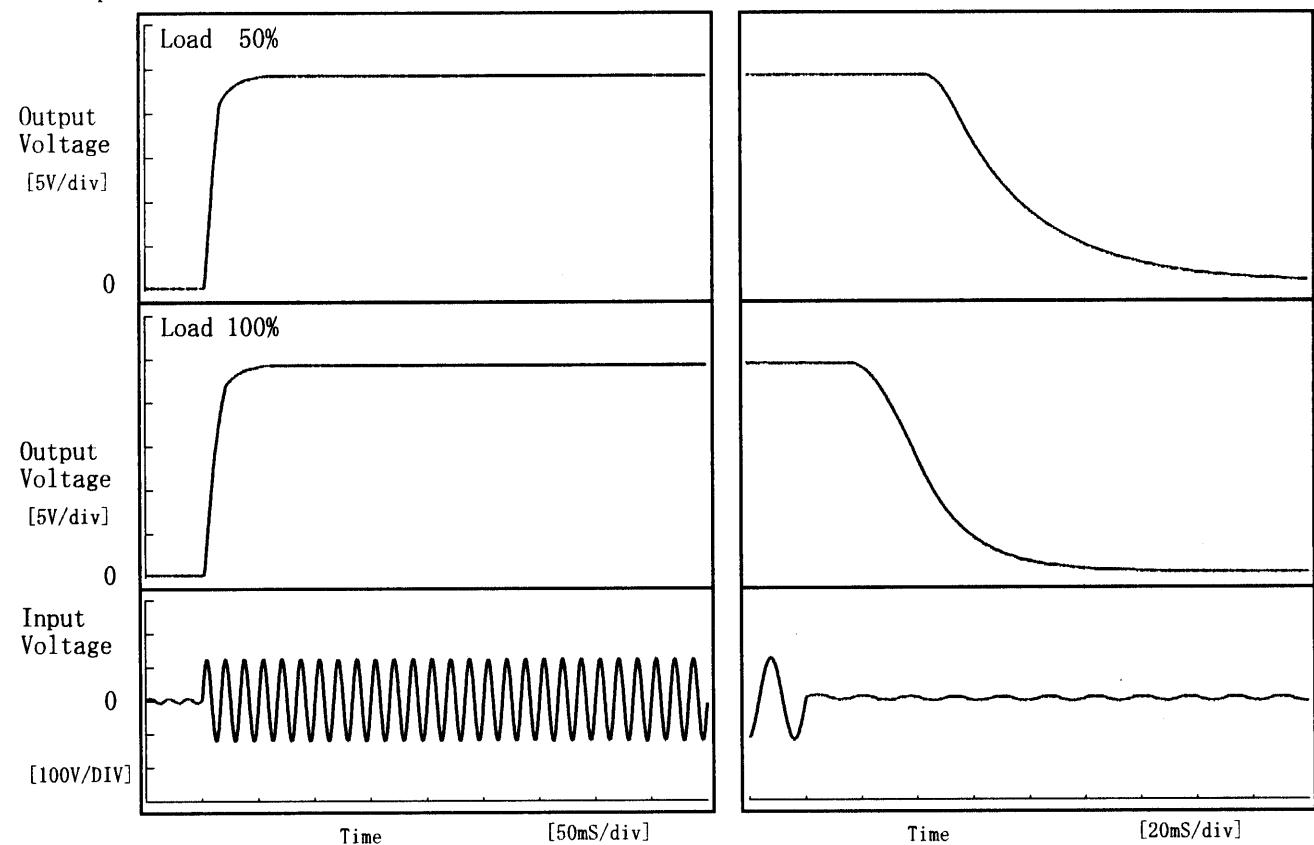
COSEL

Model	RMB50A-2
Item	Rise and Fall Time 立上り、立下り時間
Object	+24.0V 1.80A

Temperature
Testing Circuitry 25°C

Figure A

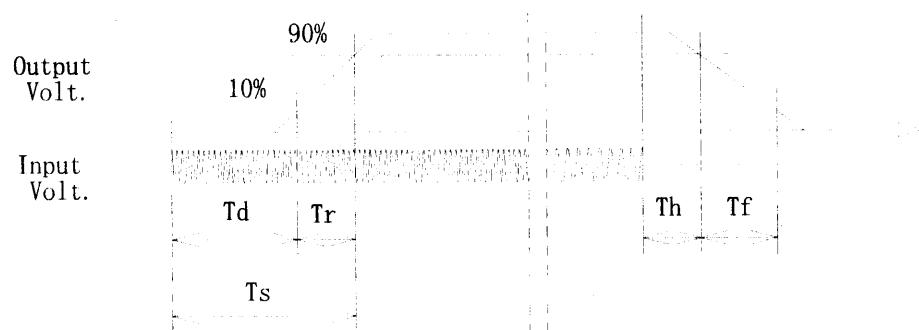
1. Graph



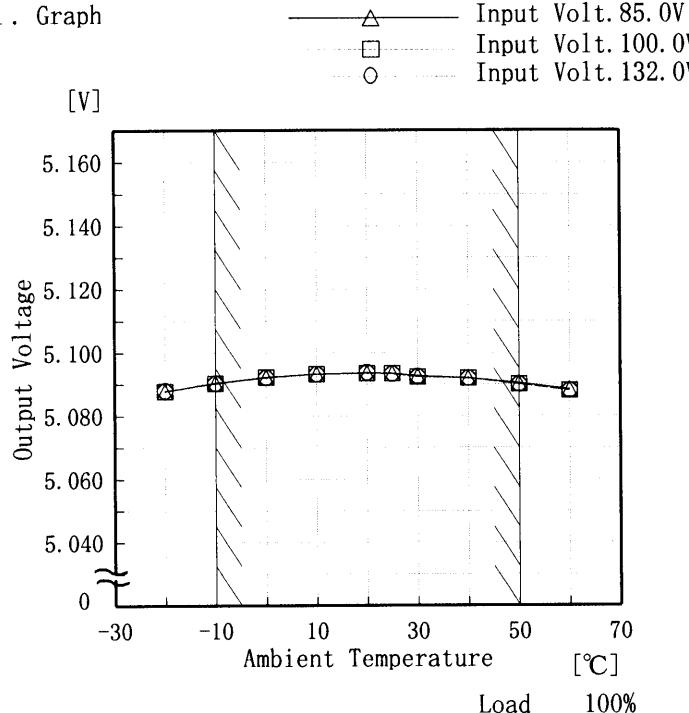
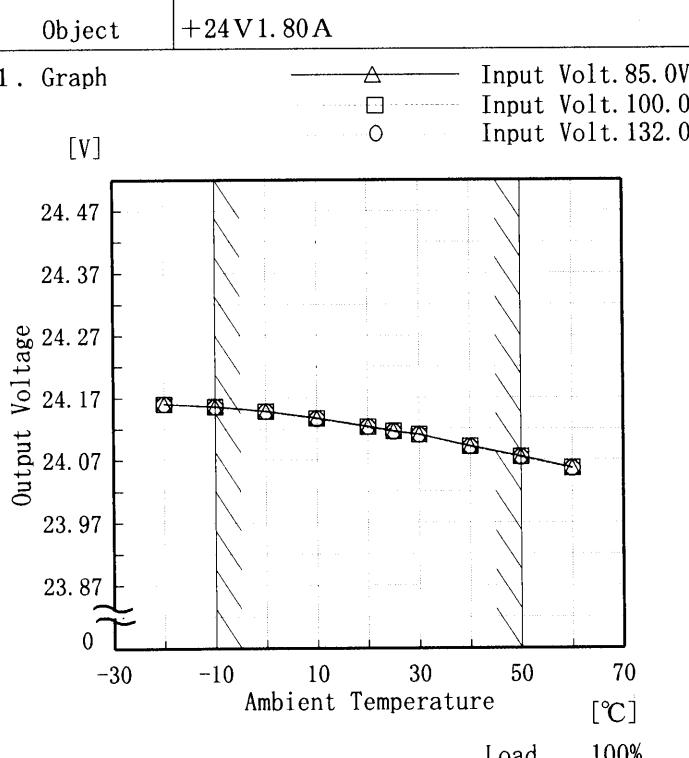
2. Values

Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		3.8	16.0	19.8	51.7	74.8
100 %		3.8	18.0	21.8	26.9	44.2

[mS]



COSEL

Model	RMB50A-2	Testing Circuitry Figure A																																																						
Item	Ambient Temperature Drift 周囲温度変動																																																							
Object	+5.0V 1.50A																																																							
1. Graph	 <p>[V]</p> <p>Output Voltage</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Input Volt. 85.0V Input Volt. 100.0V Input Volt. 132.0V</p>	2. Values																																																						
		<table border="1"> <thead> <tr> <th>Temperature [°C]</th> <th>Input Volt. 85.0[V]</th> <th>Input Volt. 100.0[V]</th> <th>Input Volt. 132.0[V]</th> </tr> </thead> <tbody> <tr> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> </tr> <tr> <td>-20</td> <td>5.088</td> <td>5.088</td> <td>5.088</td> </tr> <tr> <td>-10</td> <td>5.090</td> <td>5.090</td> <td>5.090</td> </tr> <tr> <td>0</td> <td>5.092</td> <td>5.092</td> <td>5.092</td> </tr> <tr> <td>10</td> <td>5.093</td> <td>5.093</td> <td>5.093</td> </tr> <tr> <td>20</td> <td>5.093</td> <td>5.093</td> <td>5.094</td> </tr> <tr> <td>25</td> <td>5.093</td> <td>5.093</td> <td>5.093</td> </tr> <tr> <td>30</td> <td>5.093</td> <td>5.092</td> <td>5.092</td> </tr> <tr> <td>40</td> <td>5.092</td> <td>5.092</td> <td>5.092</td> </tr> <tr> <td>50</td> <td>5.090</td> <td>5.090</td> <td>5.090</td> </tr> <tr> <td>60</td> <td>5.088</td> <td>5.088</td> <td>5.088</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>			Temperature [°C]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	5.088	5.088	5.088	-10	5.090	5.090	5.090	0	5.092	5.092	5.092	10	5.093	5.093	5.093	20	5.093	5.093	5.094	25	5.093	5.093	5.093	30	5.093	5.092	5.092	40	5.092	5.092	5.092	50	5.090	5.090	5.090	60	5.088	5.088	5.088	—	—	—	—
Temperature [°C]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																					
Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																					
-20	5.088	5.088	5.088																																																					
-10	5.090	5.090	5.090																																																					
0	5.092	5.092	5.092																																																					
10	5.093	5.093	5.093																																																					
20	5.093	5.093	5.094																																																					
25	5.093	5.093	5.093																																																					
30	5.093	5.092	5.092																																																					
40	5.092	5.092	5.092																																																					
50	5.090	5.090	5.090																																																					
60	5.088	5.088	5.088																																																					
—	—	—	—																																																					
Object	+24V 1.80A	2. Values																																																						
1. Graph	 <p>[V]</p> <p>Output Voltage</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Input Volt. 85.0V Input Volt. 100.0V Input Volt. 132.0V</p>																																																							
		<table border="1"> <thead> <tr> <th>Temperature [°C]</th> <th>Input Volt. 85.0[V]</th> <th>Input Volt. 100.0[V]</th> <th>Input Volt. 132.0[V]</th> </tr> </thead> <tbody> <tr> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> <td>Output Volt. [V]</td> </tr> <tr> <td>-20</td> <td>24.160</td> <td>24.160</td> <td>24.160</td> </tr> <tr> <td>-10</td> <td>24.156</td> <td>24.156</td> <td>24.155</td> </tr> <tr> <td>0</td> <td>24.148</td> <td>24.148</td> <td>24.148</td> </tr> <tr> <td>10</td> <td>24.137</td> <td>24.137</td> <td>24.136</td> </tr> <tr> <td>20</td> <td>24.123</td> <td>24.123</td> <td>24.123</td> </tr> <tr> <td>25</td> <td>24.116</td> <td>24.116</td> <td>24.116</td> </tr> <tr> <td>30</td> <td>24.111</td> <td>24.111</td> <td>24.110</td> </tr> <tr> <td>40</td> <td>24.092</td> <td>24.091</td> <td>24.091</td> </tr> <tr> <td>50</td> <td>24.075</td> <td>24.074</td> <td>24.074</td> </tr> <tr> <td>60</td> <td>24.057</td> <td>24.056</td> <td>24.056</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>			Temperature [°C]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	24.160	24.160	24.160	-10	24.156	24.156	24.155	0	24.148	24.148	24.148	10	24.137	24.137	24.136	20	24.123	24.123	24.123	25	24.116	24.116	24.116	30	24.111	24.111	24.110	40	24.092	24.091	24.091	50	24.075	24.074	24.074	60	24.057	24.056	24.056	—	—	—	—
Temperature [°C]	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																					
Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																					
-20	24.160	24.160	24.160																																																					
-10	24.156	24.156	24.155																																																					
0	24.148	24.148	24.148																																																					
10	24.137	24.137	24.136																																																					
20	24.123	24.123	24.123																																																					
25	24.116	24.116	24.116																																																					
30	24.111	24.111	24.110																																																					
40	24.092	24.091	24.091																																																					
50	24.075	24.074	24.074																																																					
60	24.057	24.056	24.056																																																					
—	—	—	—																																																					
<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>																																																								

COSEL

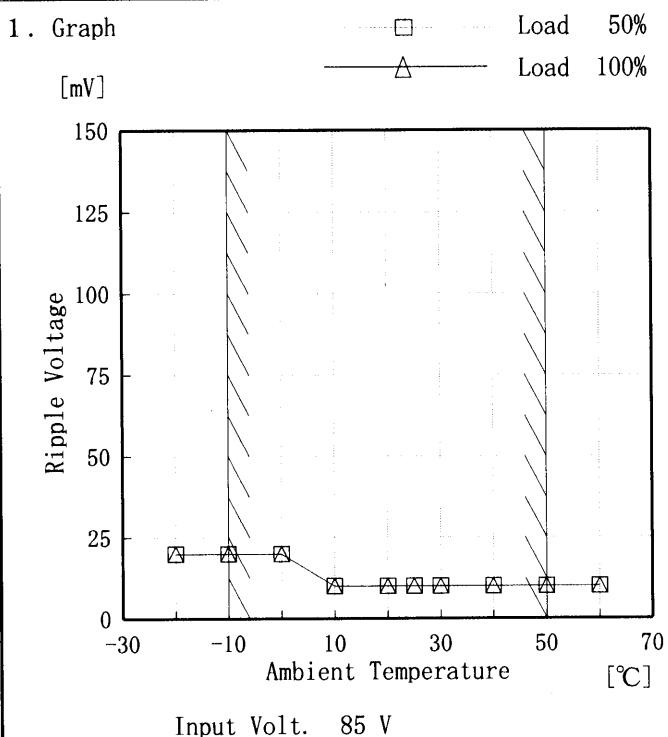
Model	RMB50A-2	Testing Circuitry Figure A																																					
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																						
Object	+5.0V 1.5A																																						
1. Graph	<p>[V] □ Load 50% △ Load 100%</p>																																						
2. Values	<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th> <th>Load 50% Input Volt. [V]</th> <th>Load 100% Input Volt. [V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>49.0</td><td>55.0</td></tr> <tr><td>-10</td><td>49.0</td><td>56.0</td></tr> <tr><td>0</td><td>50.0</td><td>56.0</td></tr> <tr><td>10</td><td>50.0</td><td>57.0</td></tr> <tr><td>20</td><td>51.0</td><td>57.0</td></tr> <tr><td>25</td><td>51.0</td><td>58.0</td></tr> <tr><td>30</td><td>51.0</td><td>58.1</td></tr> <tr><td>40</td><td>52.0</td><td>59.1</td></tr> <tr><td>50</td><td>52.0</td><td>59.0</td></tr> <tr><td>60</td><td>53.0</td><td>60.1</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]	-20	49.0	55.0	-10	49.0	56.0	0	50.0	56.0	10	50.0	57.0	20	51.0	57.0	25	51.0	58.0	30	51.0	58.1	40	52.0	59.1	50	52.0	59.0	60	53.0	60.1	—	—	—
Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																					
-20	49.0	55.0																																					
-10	49.0	56.0																																					
0	50.0	56.0																																					
10	50.0	57.0																																					
20	51.0	57.0																																					
25	51.0	58.0																																					
30	51.0	58.1																																					
40	52.0	59.1																																					
50	52.0	59.0																																					
60	53.0	60.1																																					
—	—	—																																					
Object	+24V 1.80A	<p>[V] □ Load 50% △ Load 100%</p>																																					
2. Values	<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th> <th>Load 50% Input Volt. [V]</th> <th>Load 100% Input Volt. [V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>37.0</td><td>58.0</td></tr> <tr><td>-10</td><td>37.0</td><td>58.0</td></tr> <tr><td>0</td><td>37.0</td><td>59.0</td></tr> <tr><td>10</td><td>37.0</td><td>59.0</td></tr> <tr><td>20</td><td>38.0</td><td>60.0</td></tr> <tr><td>25</td><td>38.0</td><td>60.0</td></tr> <tr><td>30</td><td>38.0</td><td>60.0</td></tr> <tr><td>40</td><td>38.0</td><td>61.0</td></tr> <tr><td>50</td><td>39.0</td><td>62.0</td></tr> <tr><td>60</td><td>39.0</td><td>62.0</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]	-20	37.0	58.0	-10	37.0	58.0	0	37.0	59.0	10	37.0	59.0	20	38.0	60.0	25	38.0	60.0	30	38.0	60.0	40	38.0	61.0	50	39.0	62.0	60	39.0	62.0	—	—	—
Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																					
-20	37.0	58.0																																					
-10	37.0	58.0																																					
0	37.0	59.0																																					
10	37.0	59.0																																					
20	38.0	60.0																																					
25	38.0	60.0																																					
30	38.0	60.0																																					
40	38.0	61.0																																					
50	39.0	62.0																																					
60	39.0	62.0																																					
—	—	—																																					
<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>																																							

COSEL

Model	RMB50A-2
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+5.0V1.50A

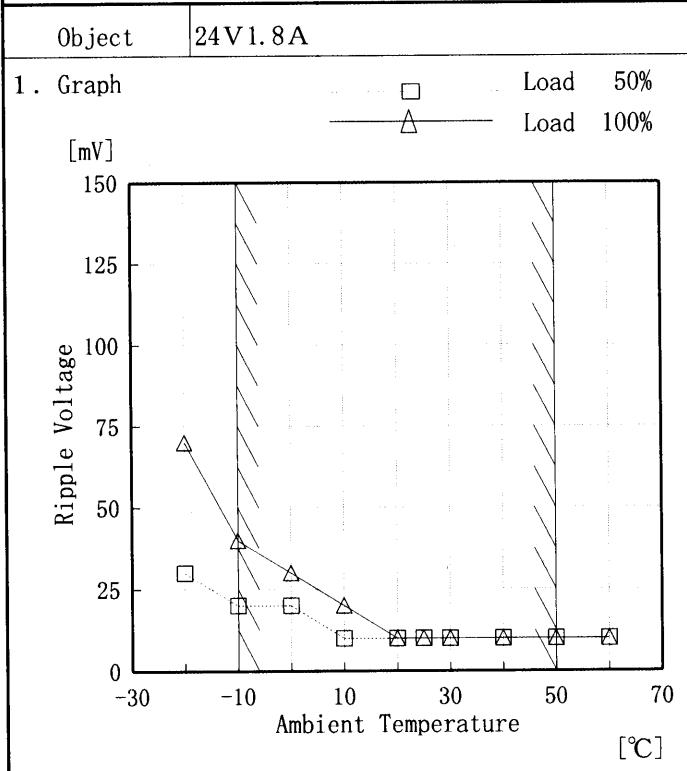
Testing Circuitry

Figure A



2. Values

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



2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	30	70
-10	20	40
0	20	30
10	10	20
20	10	10
25	10	10
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—

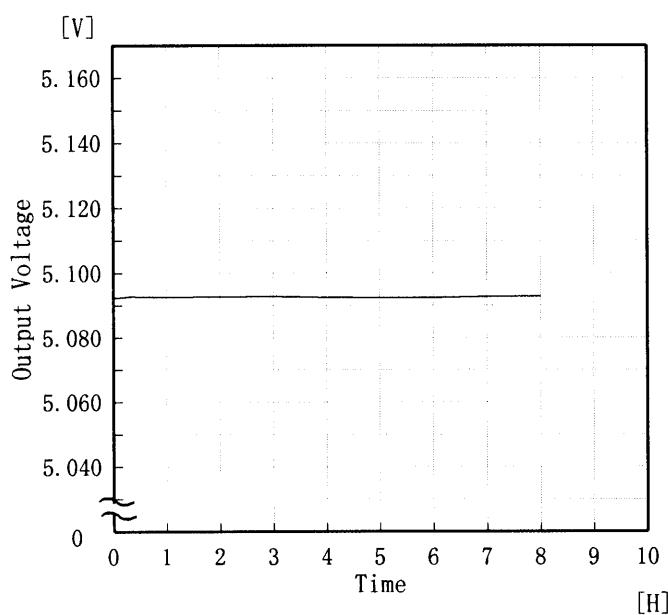
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	RMB50A-2
Item	Time Lapse Drift 経時ドリフト
Object	+5.0V 1.50A

1. Graph

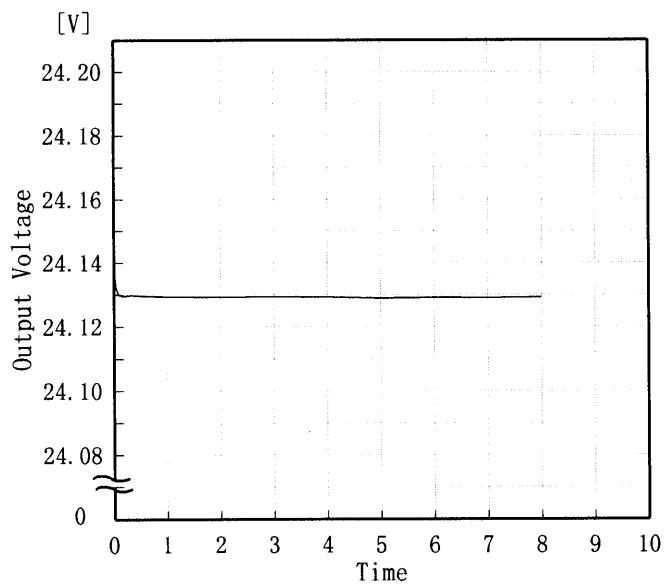


2. Values

Time since start [H]	Output Voltage [V]
0.0	5.091
0.5	5.093
1.0	5.093
2.0	5.093
3.0	5.093
4.0	5.093
5.0	5.092
6.0	5.092
7.0	5.093
8.0	5.093

Object	+24V 1.80A
--------	------------

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	24.143
0.5	24.130
1.0	24.129
2.0	24.129
3.0	24.129
4.0	24.129
5.0	24.129
6.0	24.129
7.0	24.129
8.0	24.129



Model	RMB50A-2	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	

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 : 85.0~132.0 V

Load Current (AVR 1) : 0.00~1.50 A

(AVR 2) : 0.00~1.80 A

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

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

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 -10~50 °C

入力電圧 85.0~132.0 V

負荷電流 (AVR 1) 0.00~1.50 A

(AVR 2) 0.00~1.80 A

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

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

Object +5.0V 1.50A

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	50	100.0	0.00	5.112		
Minimum Voltage	-10	85.0	1.50	5.072	±20	±0.4

Object +24V 1.80A

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	85.0	0.00	24.165		
Minimum Voltage	50	132.0	1.80	24.075	±45	±0.2



Model	RMB50A-2		
Item	Condensation 結露特性	Testing Circuitry	Figure A
Object	+5.0V 1.5A		

1. Condensation test
 Testing procedure is as follows.
 ① Keeping and cooling the unit in a tank at -10°C 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°C 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°C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°C、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]	5.093	Input Volt.: 100V, Load Current: 1.5A
Line Regulation [mV]	1	Input Volt.: 85~100V, Load Current: 1.5A
Load Regulation [mV]	22	Input Volt.: 100V, Load Current: 0.0~1.5A



Model	RMB50A-2		
Item	Condensation 結露特性	Testing Circuitry	Figure A
Object	+24V1.8A		

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10°C 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°C 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°C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°C、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]	24.114	Input Volt.: 100V, Load Current:1.8A
Line Regulation [mV]	1	Input Volt.: 85~132V, Load Current:1.8A
Load Regulation [mV]	7	Input Volt.: 100V, Load Current:0.0~1.8A



Model	RMB50A-2	Testing Circuitry Figure A
Item	Leakage Current 漏洩電流	
Object	_____	

1. Results

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
85 [V]	100 [V]	132 [V]	
(A) DENTORI	0.23	0.27	0.36
(B) UL	0.22	0.26	0.35
(C) CSA	0.22	0.26	0.35

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.	Input Volt.	Input Volt.
170 [V]	220 [V]	264 [V]	
(D) VDE	—	—	—

COSEL

Model	RMB50A-2
Item	Conducted Emission 雑音端子電圧
Object	_____

Testing Circuitry Figure D

1. Graph

Remarks

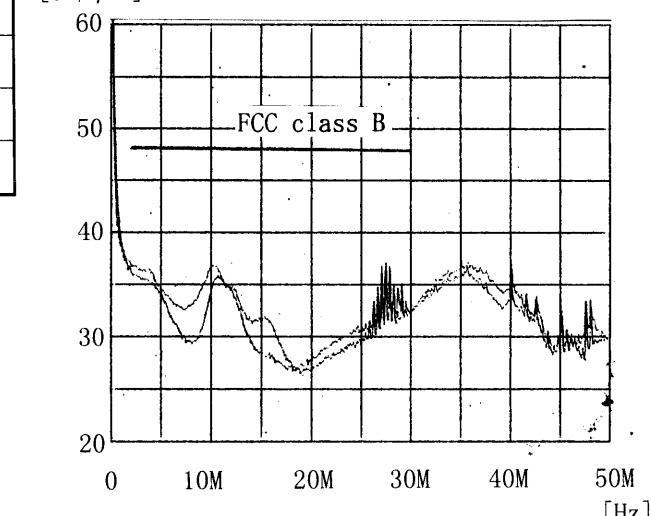
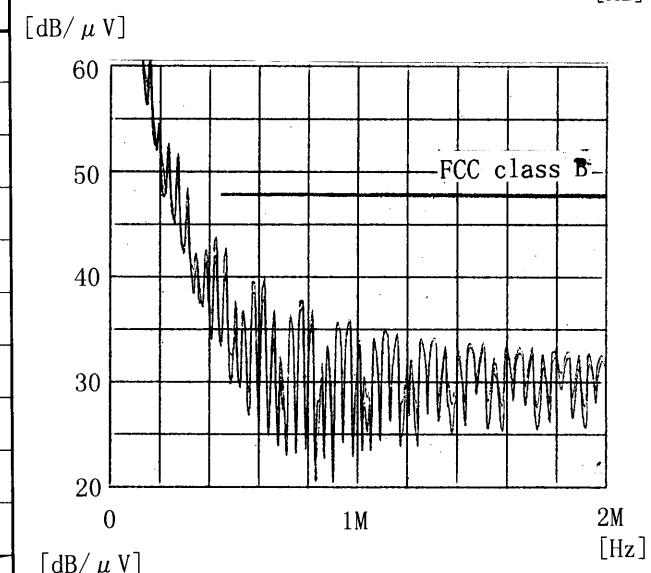
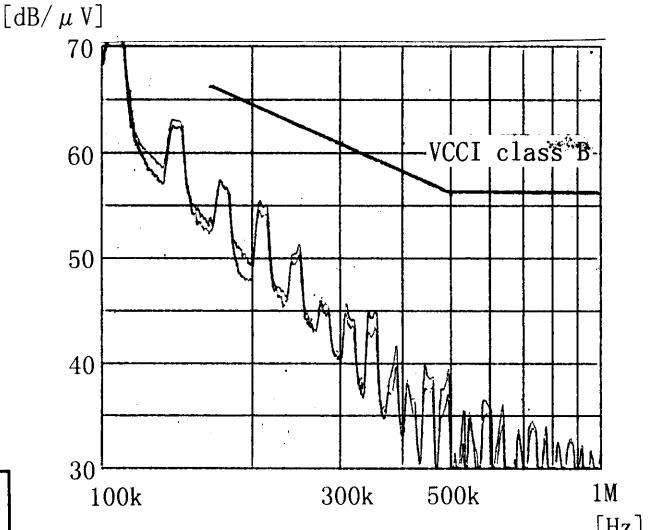
Input Volt. 120 V

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/ μ V]
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



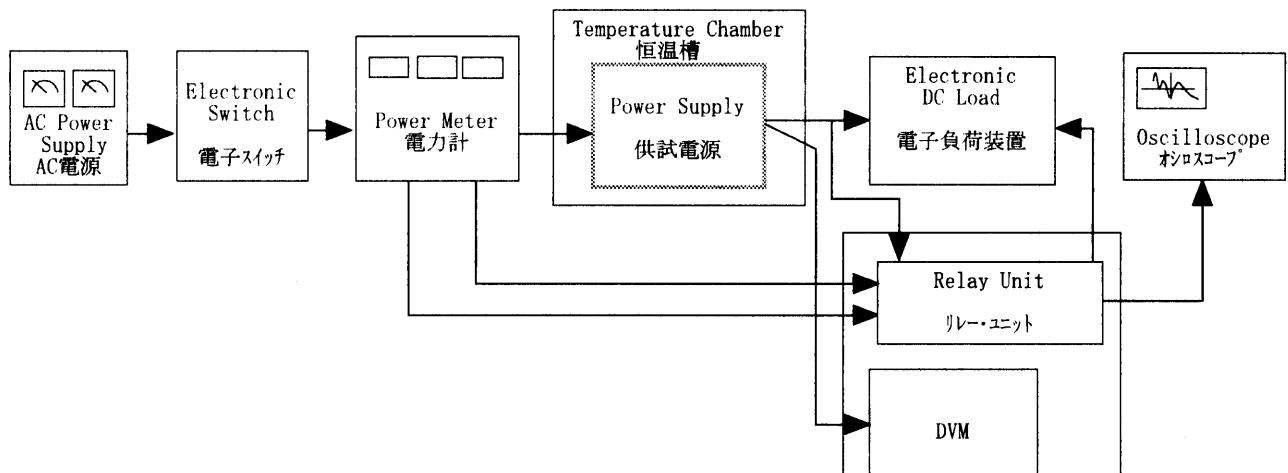


Figure A

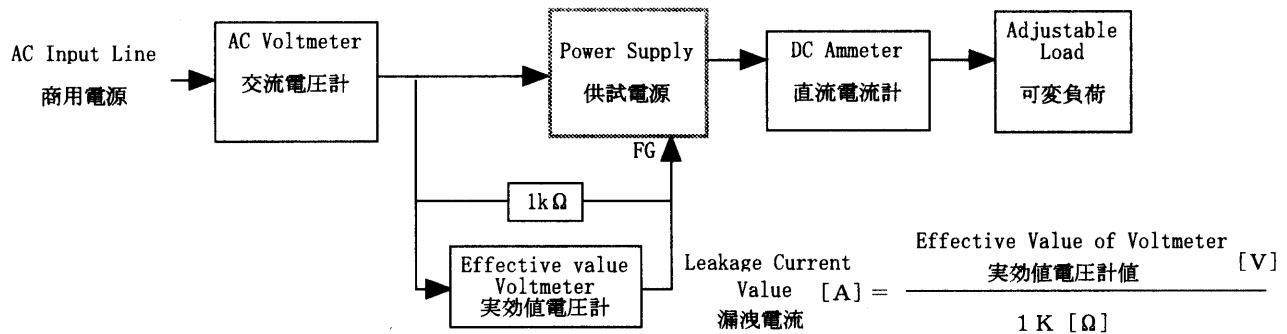
Data Acquisition/Control Unit
データ集録システム

Figure B (DENTORI)

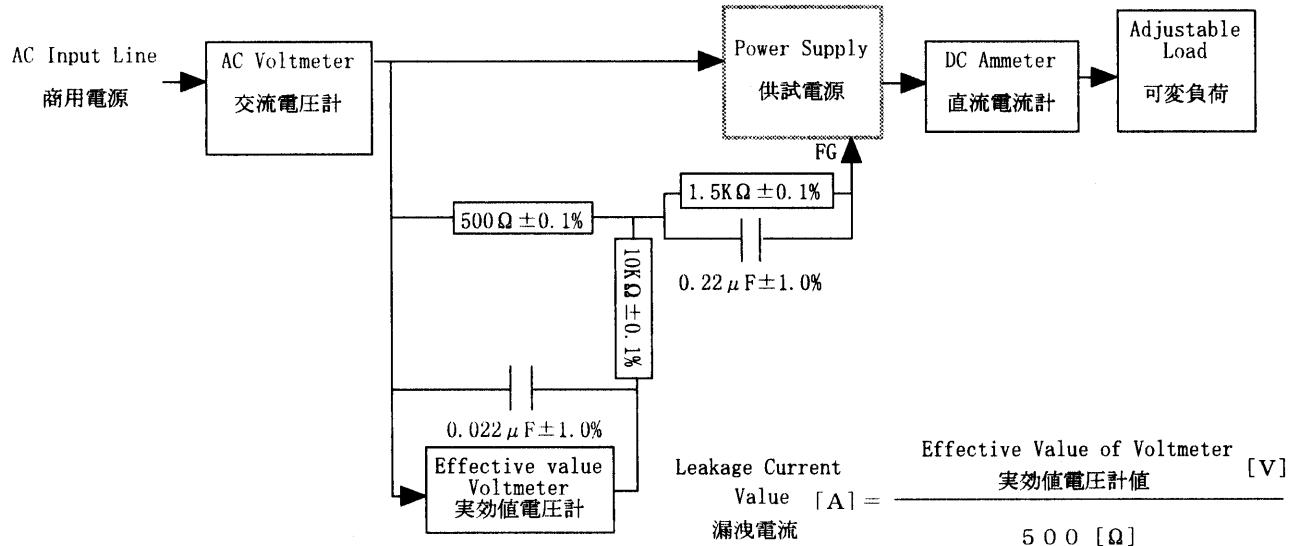


Figure B (UL, CSA, VDE)

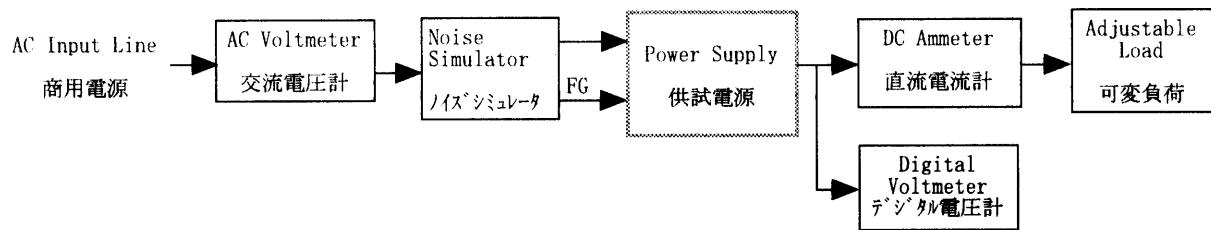


Figure C

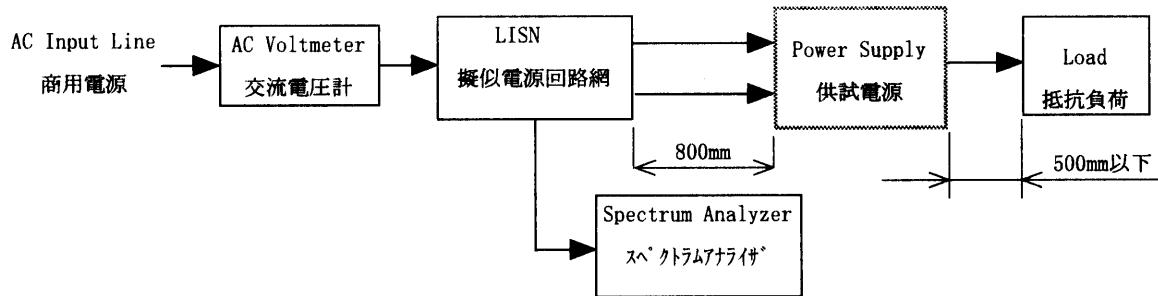


Figure D

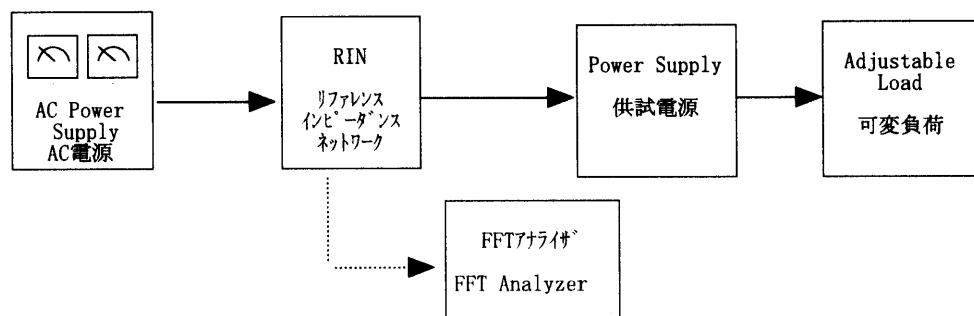


Figure E