



TEST DATA OF RMC50A-2

(100V INPUT)

Regulated DC Power Supply

Date : Mar. 25. 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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Model		RMC50A-2		Temperature	25°C																																	
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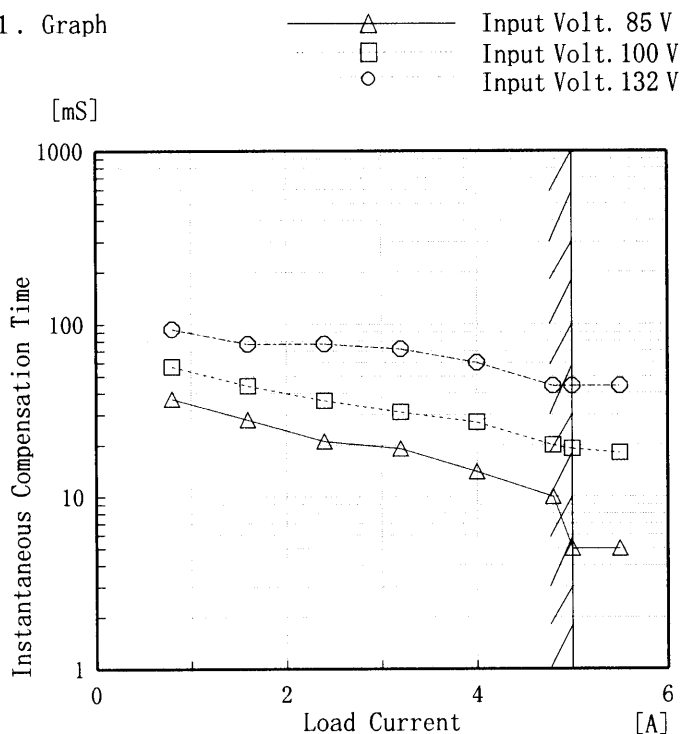
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Model	RMC50A-2
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+5.0V5A

Temperature 25°C
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	—	—	—
0.8	37	57	94
1.6	28	44	77
2.4	21	36	77
3.2	19	31	72
4.0	14	27	60
4.8	10	20	44
5.0	5	19	44
5.5	5	18	44
—	—	—	—
—	—	—	—



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<p> <input type="checkbox"/> △ ——— Input Volt. 85 V <input type="checkbox"/> □ ——— Input Volt. 100 V <input type="checkbox"/> ○ ——— Input Volt. 132 V </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>39</td><td>55</td><td>101</td></tr> <tr><td>0.40</td><td>31</td><td>47</td><td>90</td></tr> <tr><td>0.60</td><td>28</td><td>40</td><td>81</td></tr> <tr><td>0.80</td><td>23</td><td>38</td><td>73</td></tr> <tr><td>1.00</td><td>21</td><td>31</td><td>69</td></tr> <tr><td>1.20</td><td>18</td><td>30</td><td>63</td></tr> <tr><td>1.20</td><td>18</td><td>30</td><td>63</td></tr> <tr><td>1.32</td><td>14</td><td>28</td><td>60</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	39	55	101	0.40	31	47	90	0.60	28	40	81	0.80	23	38	73	1.00	21	31	69	1.20	18	30	63	1.20	18	30	63	1.32	14	28	60	—	—	—	—	—	—	—	—
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0.00	—	—	—																																																					
0.20	39	55	101																																																					
0.40	31	47	90																																																					
0.60	28	40	81																																																					
0.80	23	38	73																																																					
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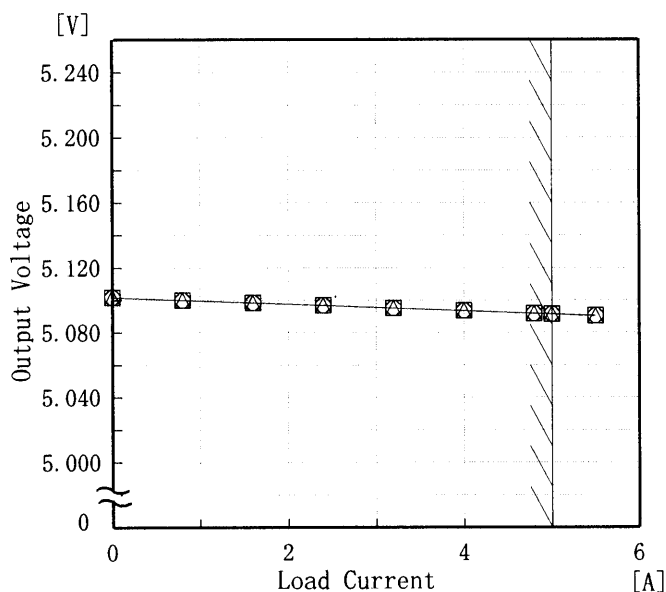
Model		RMC50A-2	Temperature		25°C																																																			
Item		Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry		Figure A																																																			
Object		-15.0V0.5A																																																						
1. Graph		<p> △ ——— Input Volt. 85 V □ - - - - - Input Volt. 100 V ○ ······ Input Volt. 132 V </p>	2. Values																																																					
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Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																					
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Model	RMC50A-2	Temperature	25°C
Item	Load Regulation 静的負荷変動	Testing Circuitry	Figure A
Object	+5.0V5A		

1. Graph

—△— Input Volt. 85 V
 - - -□- - - Input Volt. 100 V
 - - -○- - - Input Volt. 132 V



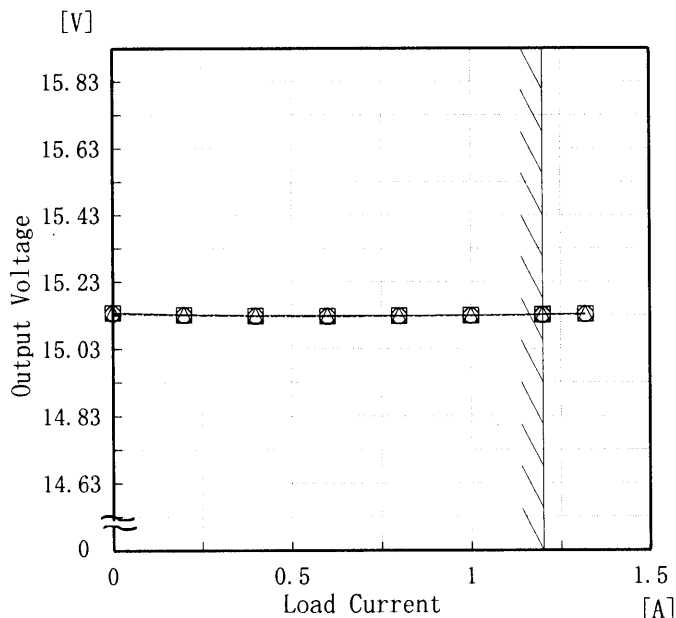
2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
0.0	5.102	5.102	5.102
0.8	5.100	5.100	5.100
1.6	5.099	5.099	5.098
2.4	5.097	5.097	5.097
3.2	5.095	5.095	5.095
4.0	5.094	5.094	5.094
4.8	5.092	5.092	5.092
5.0	5.091	5.092	5.092
5.5	5.090	5.090	5.090
-	-	-	-

Object	+15V1.2A
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1. Graph

—△— Input Volt. 85 V
 - - -□- - - Input Volt. 100 V
 - - -○- - - Input Volt. 132 V



2. Values

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	15.139	15.138	15.136
0.20	15.133	15.131	15.130
0.40	15.130	15.128	15.127
0.60	15.129	15.127	15.126
0.80	15.129	15.128	15.127
1.00	15.130	15.129	15.128
1.20	15.132	15.131	15.130
1.20	15.133	15.132	15.131
1.32	15.134	15.133	15.132
-	-	-	-

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。



Model		RMC50A-2	Temperature		25°C																																											
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A																																											
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Load Current [A]	Input Volt. 85[V] Output Volt. [V]	Input Volt. 100[V] Output Volt. [V]	Input Volt. 132[V] Output Volt. [V]																																													
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Model		RMC50A-2	Temperature		25°C																																						
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry		Figure A																																						
Object		+5.0V 5.00A	2. Values																																								
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Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]																																									
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Model		RMC50A-2	Temperature		25°C																																						
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry		Figure A																																						
Object		+15.0V 1.2A	2. Values																																								
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Model		RMC50A-2	Temperature		25°C																																					
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry		Figure A																																					
Object		-15.0V 0.5A																																								
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Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]																																								
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Model		RMC50A-2	Temperature		25°C																																						
Item		Ripple-Noise リップルノイズ	Testing Circuitry		Figure A																																						
Object		+5.0V5.00A	2. Values																																								
<p>1. Graph</p> <p>[mV]</p> <p>□----- Input Volt. 85V</p> <p>△----- Input Volt. 132V</p> <p>Ripple-Noise is shown as p-p in the figure below. 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。 (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>			<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>0.0</td><td>10</td><td>10</td></tr> <tr><td>1.0</td><td>10</td><td>10</td></tr> <tr><td>2.0</td><td>20</td><td>10</td></tr> <tr><td>3.0</td><td>20</td><td>20</td></tr> <tr><td>4.0</td><td>20</td><td>20</td></tr> <tr><td>5.0</td><td>30</td><td>30</td></tr> <tr><td>6.0</td><td>40</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]	0.0	10	10	1.0	10	10	2.0	20	10	3.0	20	20	4.0	20	20	5.0	30	30	6.0	40	30	—	—	—	—	—	—	—	—	—	—	—	—
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Model		RMC50A-2	Temperature		25°C																																						
Item		Ripple-Noise リップルノイズ	Testing Circuitry		Figure A																																						
Object		+15.0V1.20A	2. Values																																								
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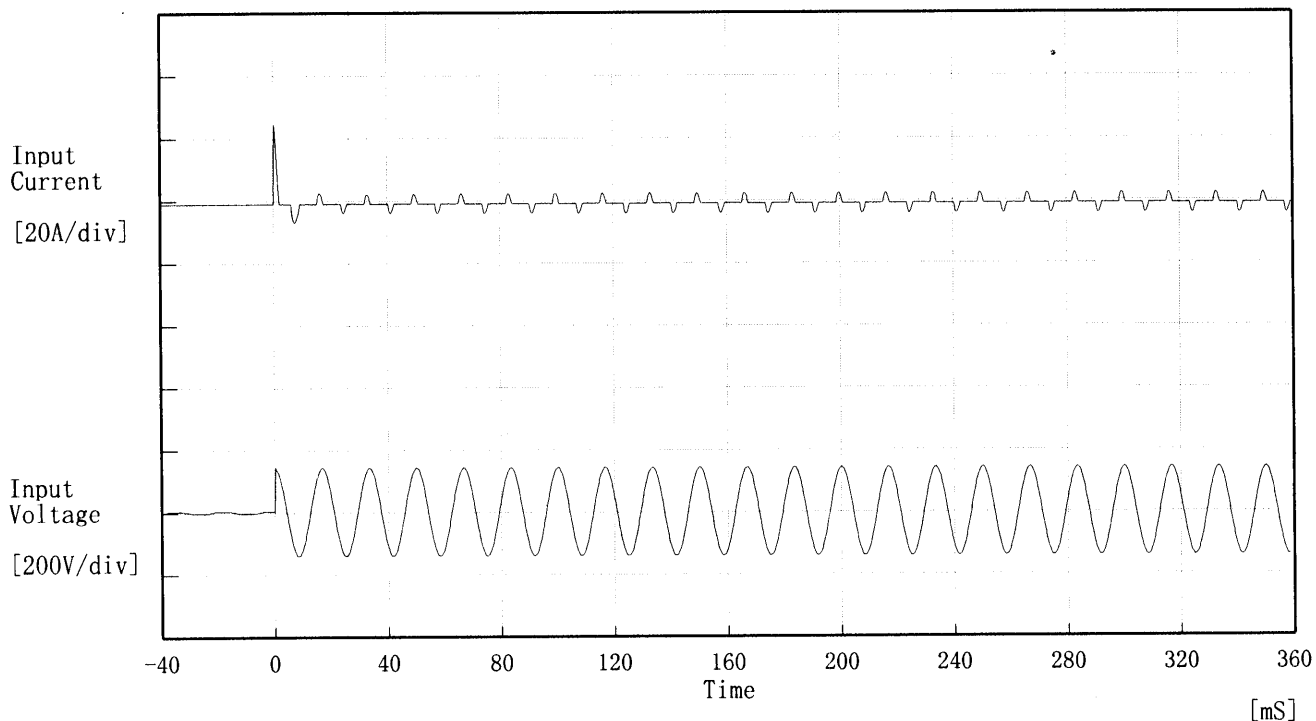
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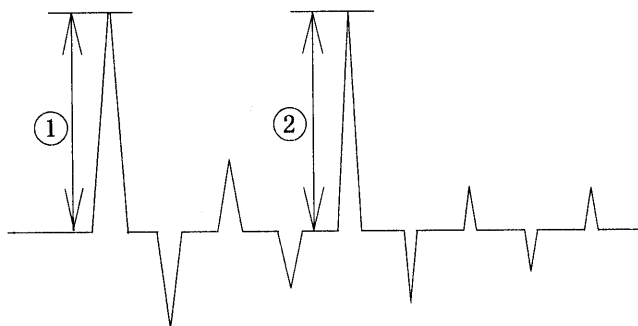
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Model	RMC50A-2	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



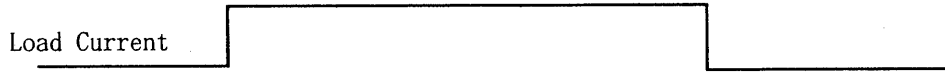
Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 24.51 [A]
 ② 4.00 [A]



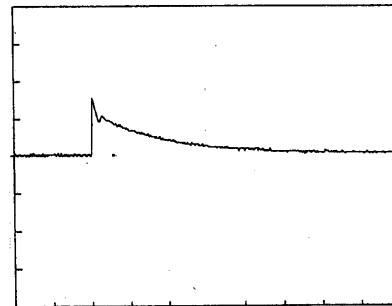
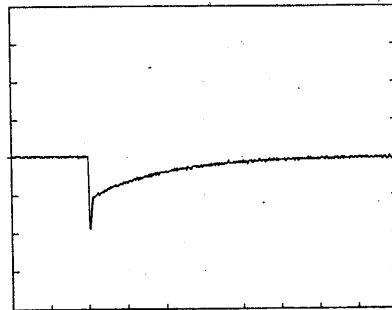


Model	RMC50A-2	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	+5.0V5.00A		

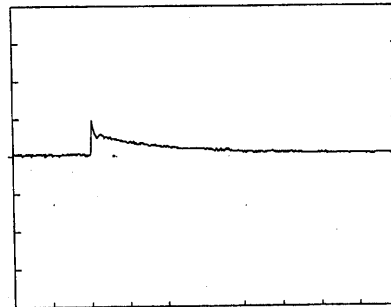
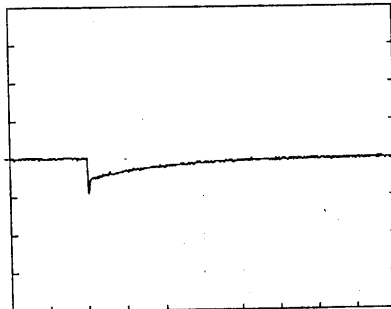
Input Volt. 100 V
Cycle 200 mS



Load 0% ↔
Load 100 %



Load 0% ↔
Load 50 %



100 mV/div

10 mS/div



Model	RMC50A-2	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	+15.0V 1.20A		

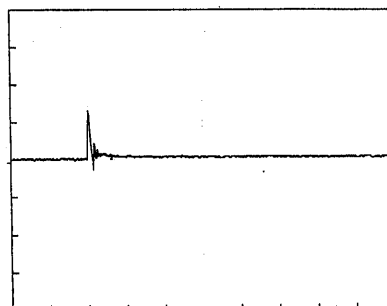
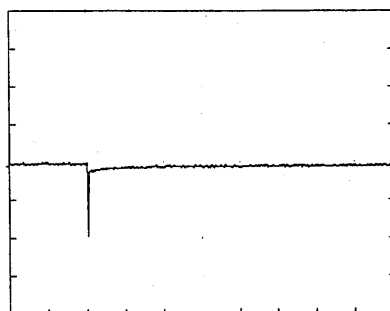
Input Volt. 100 V

Cycle 200 mS



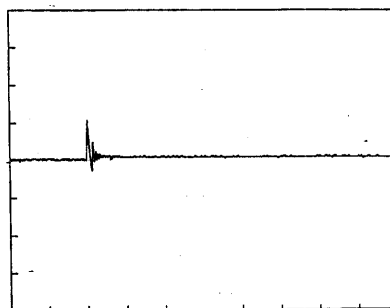
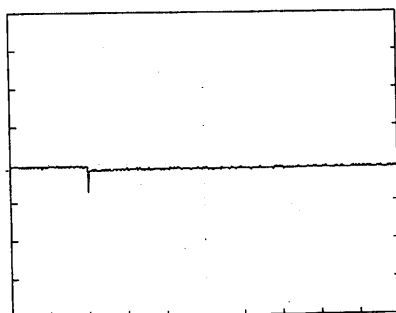
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



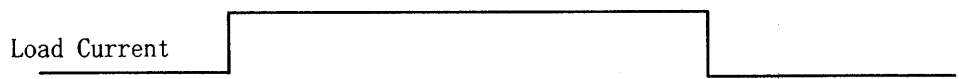
100 mV/div

10 mS/div



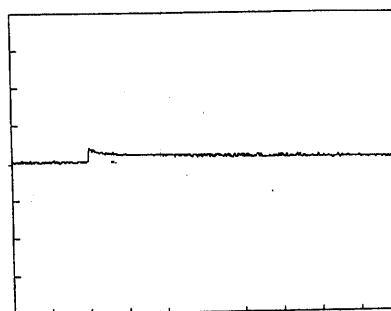
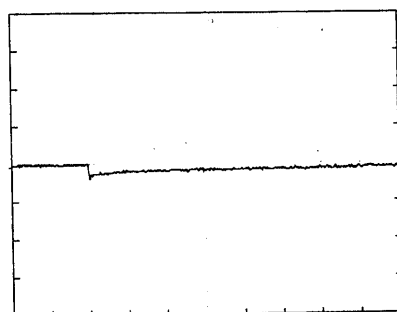
Model	RMC50A-2	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	-15.0V 0.50A		

Input Volt. 100 V.
Cycle 200 mS



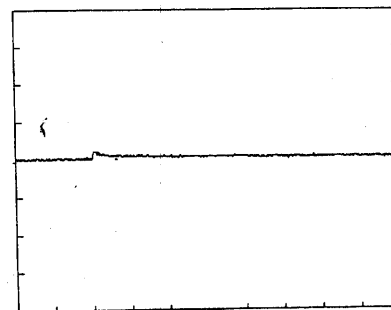
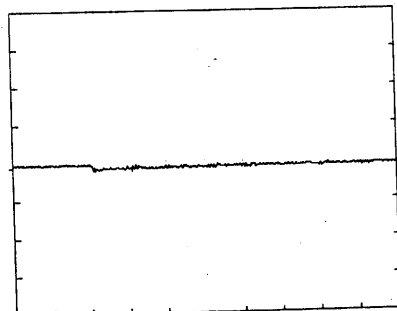
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

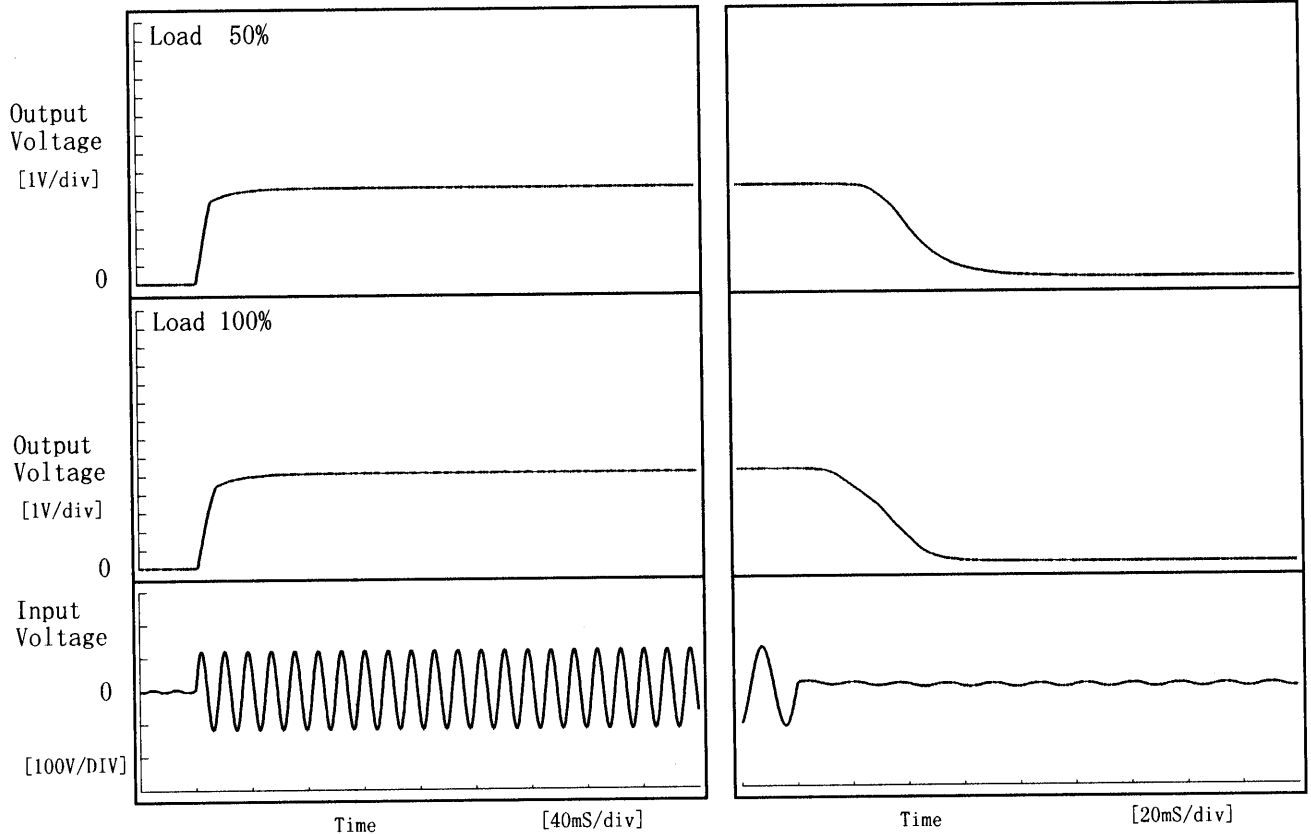
10 mS/div



Model	RMC50A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+5.0V5.00A		

1. Graph

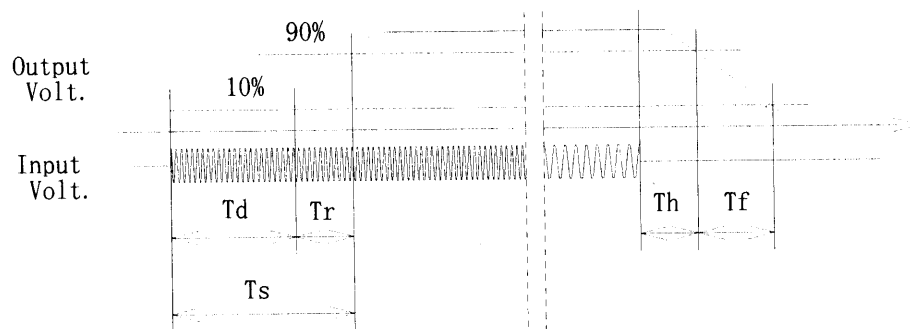
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.0	13.0	16.0	31.4	33.8
100 %	3.0	14.8	17.8	18.0	30.8

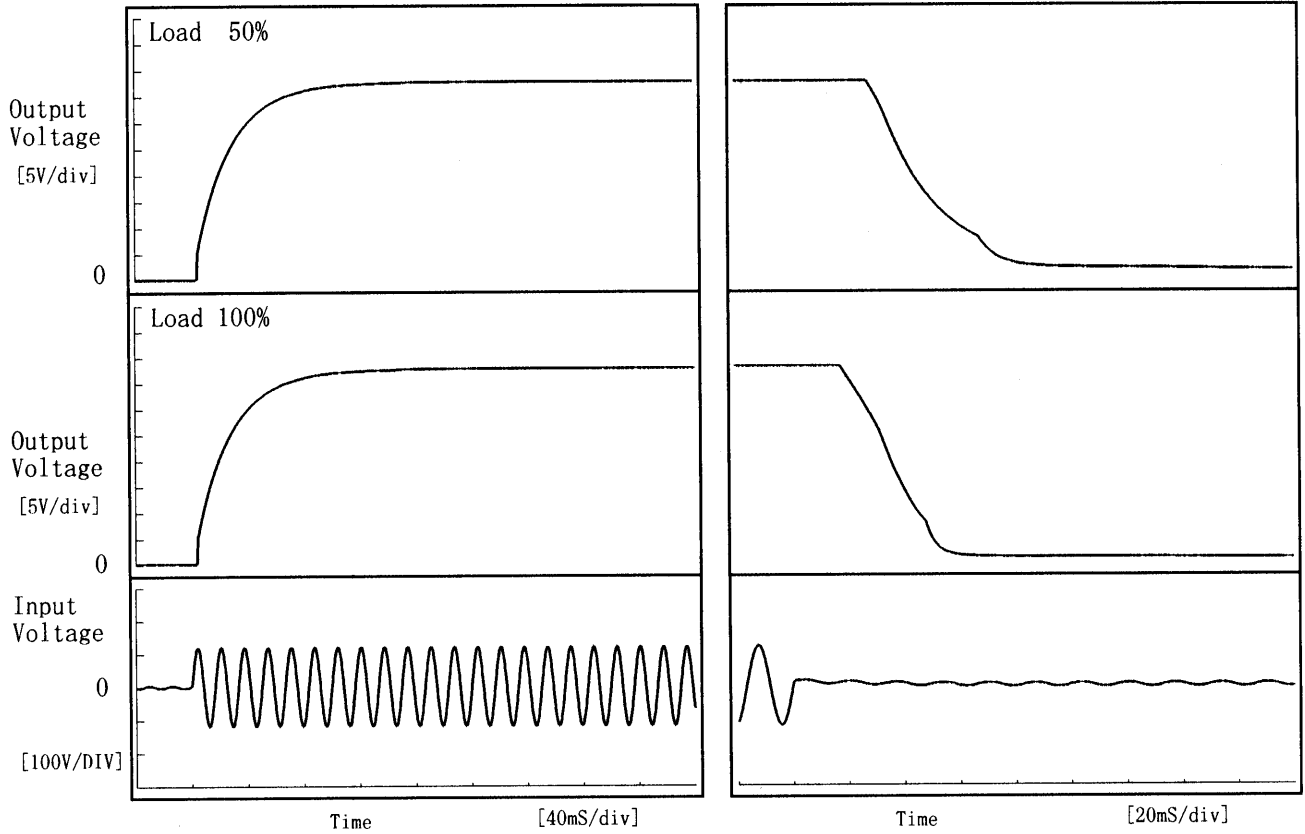




Model	RMC50A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+15.0V 1.20A		

1. Graph

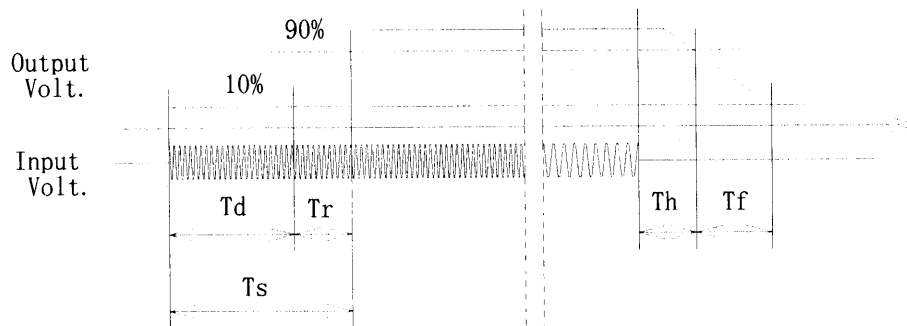
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	4.4	54.0	58.4	31.5	44.5
100 %	4.2	54.2	58.4	22.3	29.3

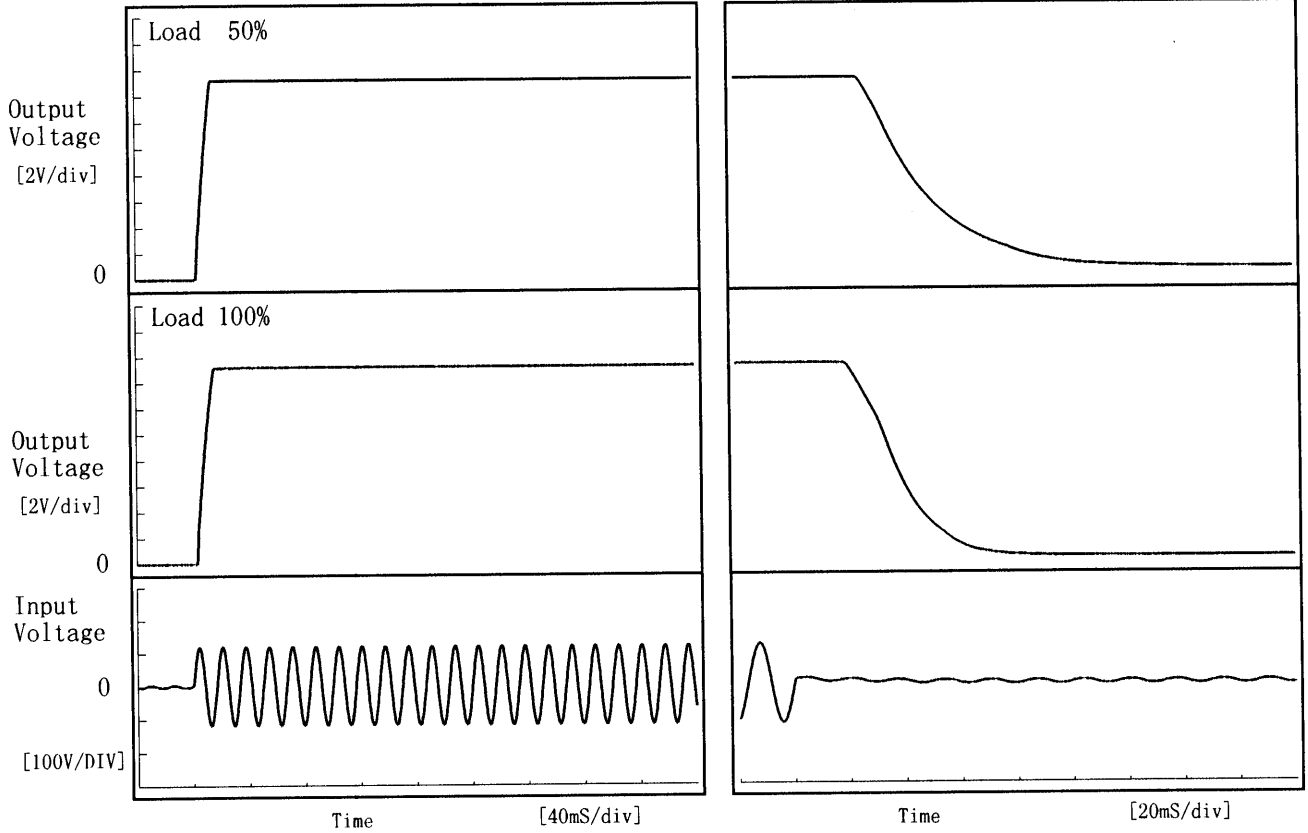




Model	RMC50A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	-15.0V0.50A		

1. Graph

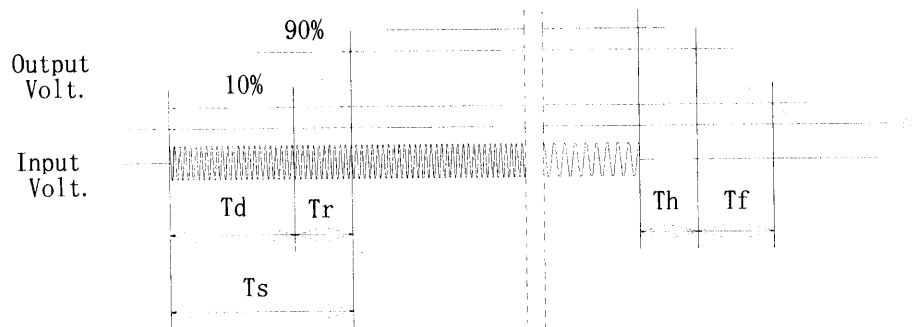
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	3.6	9.0	12.6	28.8	59.0
100 %	3.6	10.0	13.6	24.2	34.2





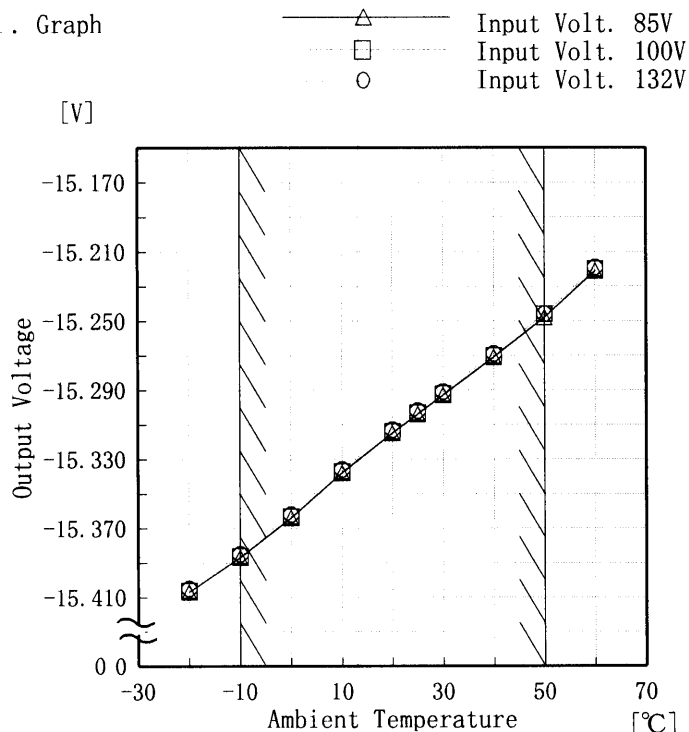
Model RMC50A-2																																																			
Item Ambient Temperature Drift 周囲温度変動		Testing Circuitry Figure A																																																	
Object +5.0V5.00A																																																			
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Temperature [°C]	Input Volt. 85.0[V] Output Volt. [V]	Input Volt. 100.0[V] Output Volt. [V]	Input Volt. 132.0[V] Output Volt. [V]																																																
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Temperature [°C]	Input Volt. 85.0[V] Output Volt. [V]	Input Volt. 100.0[V] Output Volt. [V]	Input Volt. 132.0[V] Output Volt. [V]																																																
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<p>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。</p>																																																			



Model	RMC50A-2
Item	Ambient Temperature Drift 周囲温度変動
Object	-15.0V0.50A

Testing Circuitry Figure A

1. Graph



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

(注) 斜線は定格周囲温度範囲を示す。

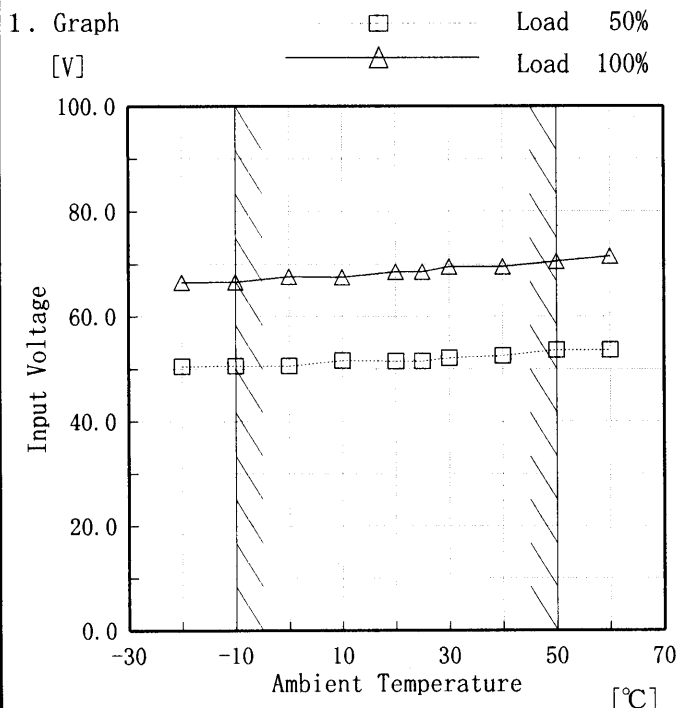
2. Values

Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	-15.407	-15.406	-15.405
-10	-15.387	-15.386	-15.385
0	-15.364	-15.363	-15.362
10	-15.338	-15.337	-15.336
20	-15.315	-15.314	-15.313
25	-15.304	-15.303	-15.302
30	-15.293	-15.292	-15.291
40	-15.271	-15.270	-15.269
50	-15.248	-15.246	-15.246
60	-15.221	-15.220	-15.219
—	—	—	—



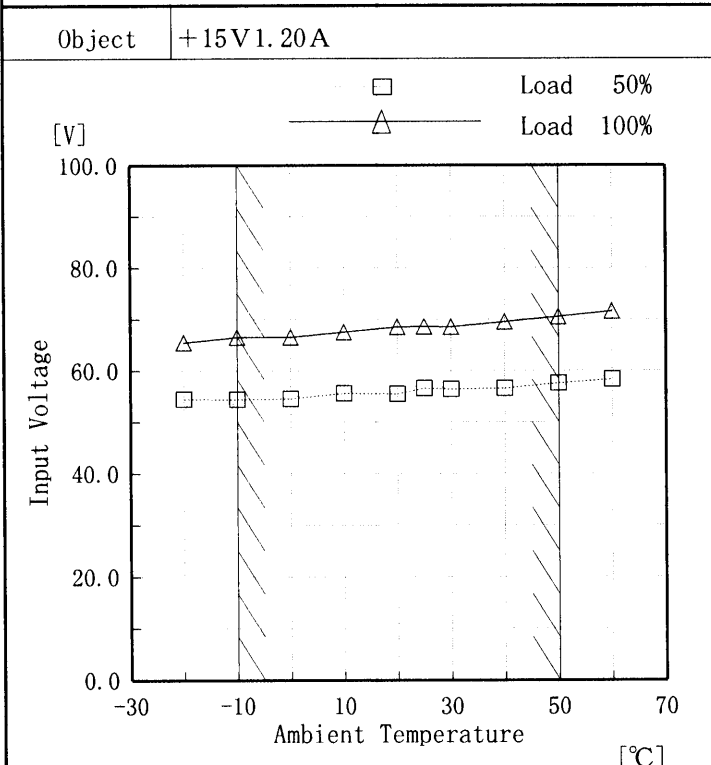
Model	RMC50A-2
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+5.0V5A

Testing Circuitry Figure A



2. Values

Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	50.5	66.5
-10	50.6	66.6
0	50.6	67.6
10	51.6	67.5
20	51.5	68.5
25	51.5	68.5
30	52.1	69.5
40	52.5	69.5
50	53.6	70.5
60	53.6	71.5
—	—	—



2. Values

Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	54.5	65.5
-10	54.4	66.5
0	54.6	66.5
10	55.6	67.5
20	55.5	68.5
25	56.6	68.6
30	56.4	68.5
40	56.6	69.5
50	57.6	70.5
60	58.3	71.5
—	—	—

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。



Model		RMC50A-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		-15.0V0.50A																																					
1. Graph		<div style="display: flex; justify-content: space-around;"> <div>□ ----- Load 50%</div> <div>△ ----- Load 100%</div> </div>	2. Values																																				
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Model		RMC50A-2		Testing Circuitry Figure A																																					
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object		+5.0V 5.00A		2. Values																																					
1. Graph				<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th> <th>Load 50% Ripple Output Volt. [mV]</th> <th>Load 100% Ripple Output Volt. [mV]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>60</td><td>140</td></tr> <tr><td>-10</td><td>40</td><td>70</td></tr> <tr><td>0</td><td>20</td><td>40</td></tr> <tr><td>10</td><td>10</td><td>30</td></tr> <tr><td>20</td><td>10</td><td>20</td></tr> <tr><td>25</td><td>10</td><td>20</td></tr> <tr><td>30</td><td>10</td><td>20</td></tr> <tr><td>40</td><td>5</td><td>10</td></tr> <tr><td>50</td><td>5</td><td>10</td></tr> <tr><td>60</td><td>5</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>		Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	60	140	-10	40	70	0	20	40	10	10	30	20	10	20	25	10	20	30	10	20	40	5	10	50	5	10	60	5	10	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																							
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Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																							
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-10	10	10																																							
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10	10	10																																							
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25	10	10																																							
30	10	10																																							
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—	—	—																																							
Input Volt. 100 V		Input Volt. 100 V		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。																																					



Model		RMC50A-2	Testing Circuitry Figure A																																				
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																					
Object		-15.0V0.50A																																					
1. Graph		<div style="display: flex; justify-content: space-around;"> □ Load 50% △ Load 100% </div> <p style="text-align: center;">Input Volt. 100 V</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	RMC50A-2	Temperature 25 °C Testing Circuitry Figure A																						
Item	Time Lapse Drift 経時ドリフト																							
Object	+5.0V5.00A																							
<p>1. Graph</p> <p style="text-align: center;">Input Volt. 100V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.095</td></tr> <tr><td>0.5</td><td>5.094</td></tr> <tr><td>1.0</td><td>5.093</td></tr> <tr><td>2.0</td><td>5.093</td></tr> <tr><td>3.0</td><td>5.093</td></tr> <tr><td>4.0</td><td>5.093</td></tr> <tr><td>5.0</td><td>5.093</td></tr> <tr><td>6.0</td><td>5.093</td></tr> <tr><td>7.0</td><td>5.093</td></tr> <tr><td>8.0</td><td>5.093</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	5.095	0.5	5.094	1.0	5.093	2.0	5.093	3.0	5.093	4.0	5.093	5.0	5.093	6.0	5.093	7.0	5.093	8.0	5.093
Time since start [H]	Output Voltage [V]																							
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Object	+15V1.20A																							
<p>1. Graph</p> <p style="text-align: center;">Input Volt. 100V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>15.110</td></tr> <tr><td>0.5</td><td>15.139</td></tr> <tr><td>1.0</td><td>15.139</td></tr> <tr><td>2.0</td><td>15.138</td></tr> <tr><td>3.0</td><td>15.137</td></tr> <tr><td>4.0</td><td>15.137</td></tr> <tr><td>5.0</td><td>15.137</td></tr> <tr><td>6.0</td><td>15.136</td></tr> <tr><td>7.0</td><td>15.136</td></tr> <tr><td>8.0</td><td>15.136</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	15.110	0.5	15.139	1.0	15.139	2.0	15.138	3.0	15.137	4.0	15.137	5.0	15.137	6.0	15.136	7.0	15.136	8.0	15.136
Time since start [H]	Output Voltage [V]																							
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COSEL																								
Model	RMC50A-2	Temperature 25 °C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry Figure A																						
Object	-15.0V0.5A																							
<p>1. Graph</p> <p>[V]</p> <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 100V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-15.193</td></tr> <tr><td>0.5</td><td>-15.147</td></tr> <tr><td>1.0</td><td>-15.148</td></tr> <tr><td>2.0</td><td>-15.148</td></tr> <tr><td>3.0</td><td>-15.148</td></tr> <tr><td>4.0</td><td>-15.148</td></tr> <tr><td>5.0</td><td>-15.149</td></tr> <tr><td>6.0</td><td>-15.149</td></tr> <tr><td>7.0</td><td>-15.149</td></tr> <tr><td>8.0</td><td>-15.149</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	-15.193	0.5	-15.147	1.0	-15.148	2.0	-15.148	3.0	-15.148	4.0	-15.148	5.0	-15.149	6.0	-15.149	7.0	-15.149	8.0	-15.149
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Model		RMC50A-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) : 0.00~5.00 (AVR 2) : 0.00~1.20 / (AVR 3) : 0.00~0.50 A

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

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

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) 0.00~5.00 A (AVR 2) : 0.00~1.20 A (AVR 3) : 0.00~0.50 A

* 定電圧精度(変動値) = $\pm(\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

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

Object	+5.0V5.00A					
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	0.000	5.112	±16	±0.4
Minimum Voltage	50	85.0	5.000	5.081		

Object	+15V1.20A					
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	50	85.0	1.20	15.167	±62	±0.5
Minimum Voltage	-10	132.0	0.00	15.043		

Object	-15V0.50A					
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132.0	0.00	-15.219	±59	±0.4
Minimum Voltage	50	132.0	0.50	-15.102		



Model		RMC50A-2	Testing Circuitry Figure A
Item		Condensation 結露特性	
Object		+5.0V5A	

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]	5.091	Input Volt.: 100V, Load Current:5A
Line Regulation [mV]	1	Input Volt.: 85~132V, Load Current:5A
Load Regulation [mV]	10	Input Volt.: 100V, Load Current:0~5A

COSEL

Model		RMC50A-2	Testing Circuitry Figure A
Item		Condensation 結露特性	
Object		+15.0V 1.2A	
<p>1. Condensation test</p> <p>Testing procedure is as follows.</p> <p>① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.</p> <p>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.</p> <p>③ Testing electrical characteristics of the unit to confirm there be no fault.</p> <p>1. 結露特性試験</p> <p>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。</p>			
2. Values			
Item	Data	Testing Conditions	
Output Voltage [V]	15.146	Input Volt.: 100V, Load Current:1.2A	
Line Regulation [mV]	1	Input Volt.: 85~132V, Load Current:1.2A	
Load Regulation [mV]	26	Input Volt.: 100V, Load Current:0.0~1.2A	



Model		RMC50A-2		Testing Circuitry Figure A												
Item		Condensation 結露特性														
Object		-15.0V0.5A														
<p>1. Condensation test</p> <p>Testing procedure is as follows.</p> <p>① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.</p> <p>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.</p> <p>③ Testing electrical characteristics of the unit to confirm there be no fault.</p> <p>1. 結露特性試験</p> <p>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。</p>																
<p>2. Values</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">Data</th> <th style="text-align: center;">Testing Conditions</th> </tr> </thead> <tbody> <tr> <td>Output Voltage [V]</td> <td style="text-align: center;">-15.147</td> <td>Input Volt. : 100V, Load Current:0.5A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td style="text-align: center;">12</td> <td>Input Volt. : 85~132V, Load Current:0.5A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td style="text-align: center;">33</td> <td>Input Volt. : 100V, Load Current:0.0~0.5A</td> </tr> </tbody> </table>					Item	Data	Testing Conditions	Output Voltage [V]	-15.147	Input Volt. : 100V, Load Current:0.5A	Line Regulation [mV]	12	Input Volt. : 85~132V, Load Current:0.5A	Load Regulation [mV]	33	Input Volt. : 100V, Load Current:0.0~0.5A
Item	Data	Testing Conditions														
Output Voltage [V]	-15.147	Input Volt. : 100V, Load Current:0.5A														
Line Regulation [mV]	12	Input Volt. : 85~132V, Load Current:0.5A														
Load Regulation [mV]	33	Input Volt. : 100V, Load Current:0.0~0.5A														



Model		RMC50A-2	Temperature	25°C
Item		Leakage Current 漏洩電流	Testing Circuitry	Figure A
Object				

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.23	0.27	0.36
(B) IEC60950	0.22	0.26	0.35

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。

Model	RMC50A-2
Item	Conducted Emission 雑音端子電圧
Object	_____

Testing Circuitry Figure D

1. Graph

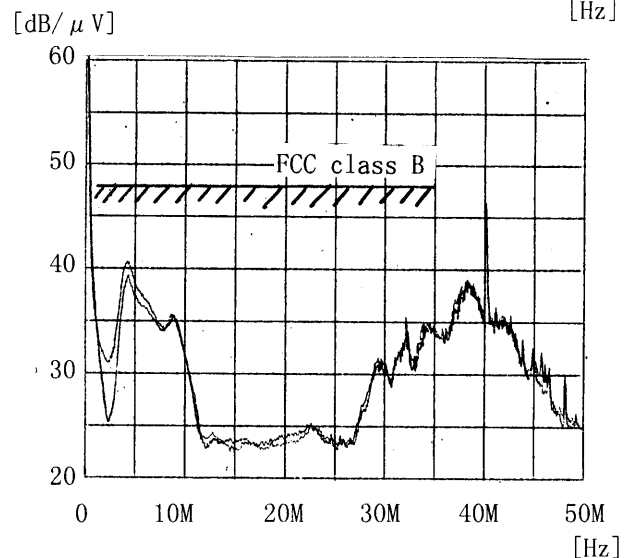
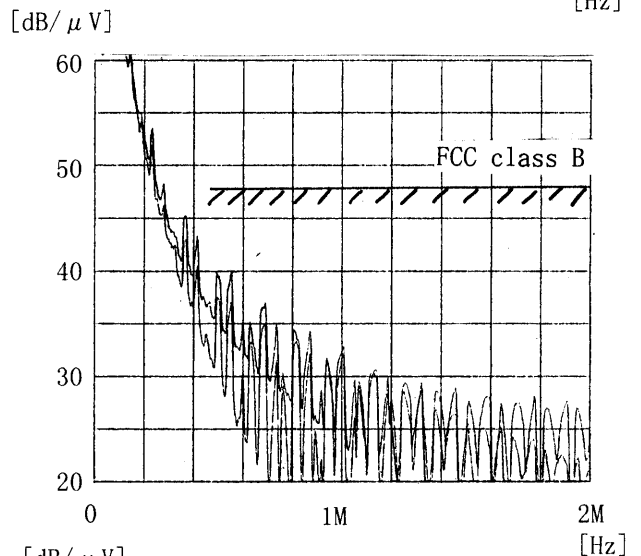
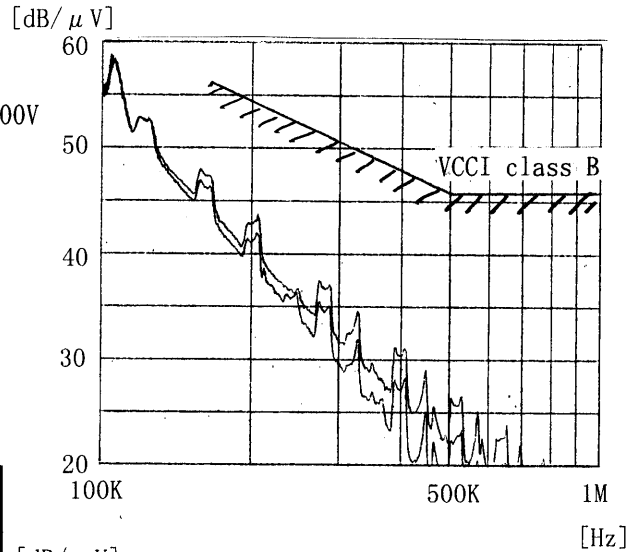
Input Volt. 100V

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



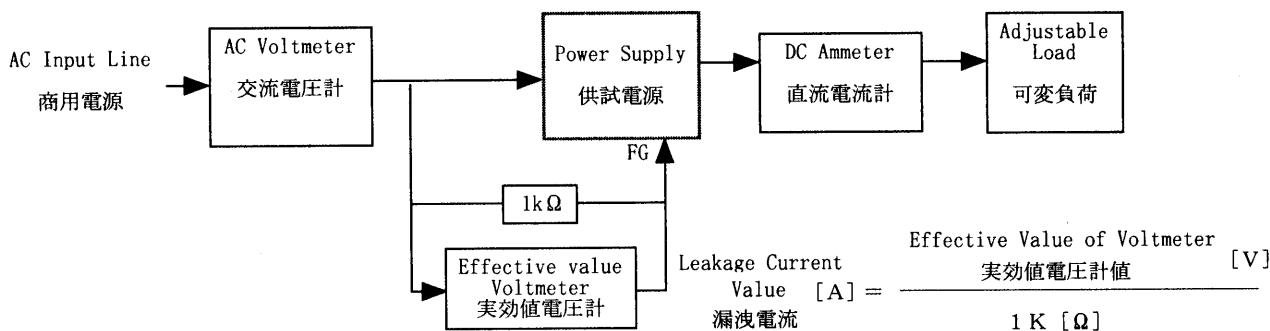
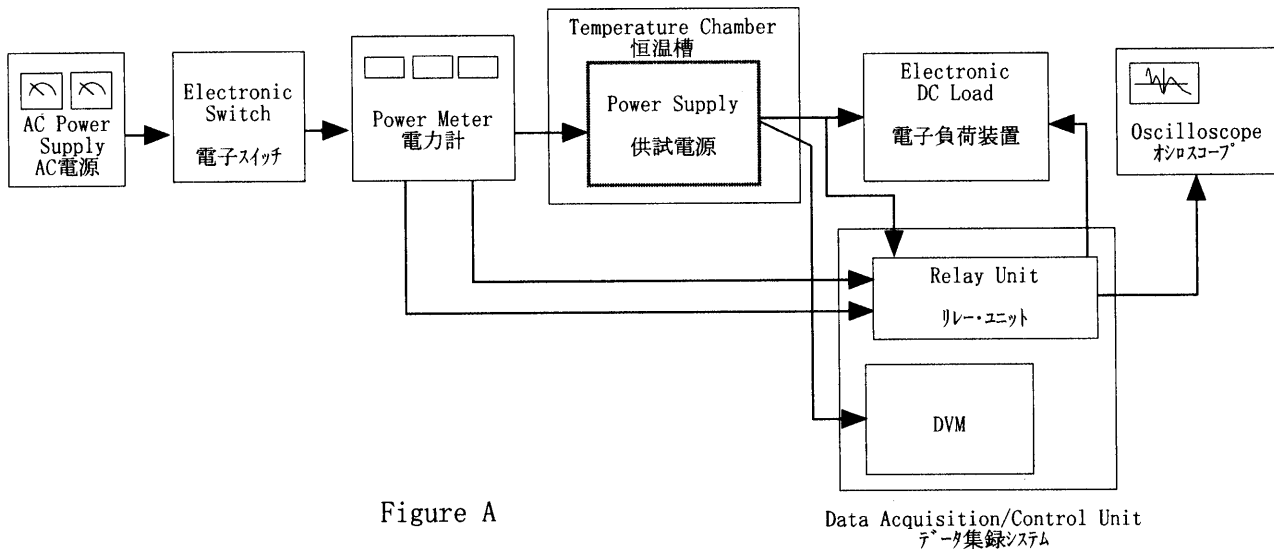


Figure B (DENTORI)

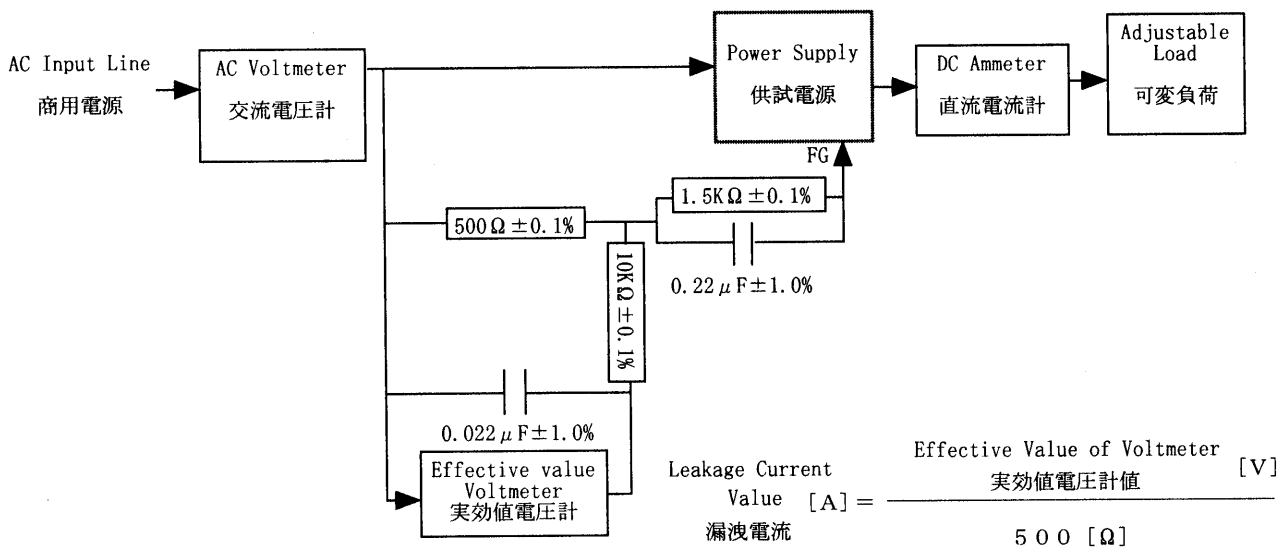


Figure B (IEC 60950)

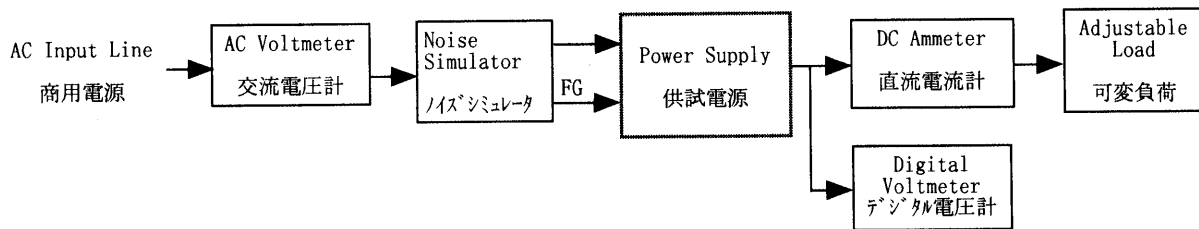


Figure C

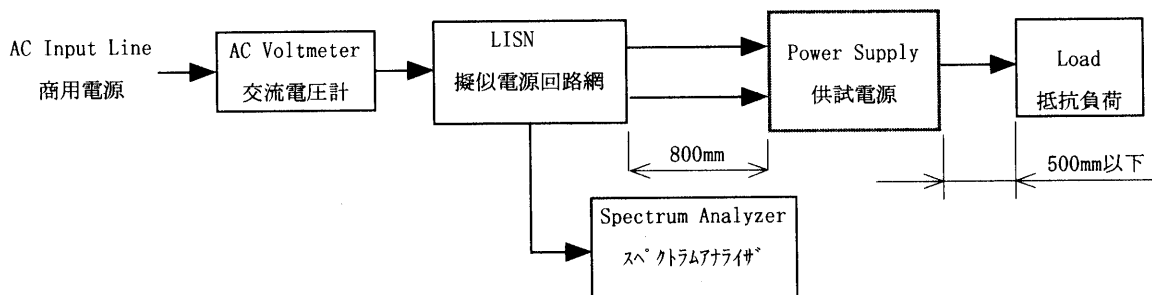


Figure D

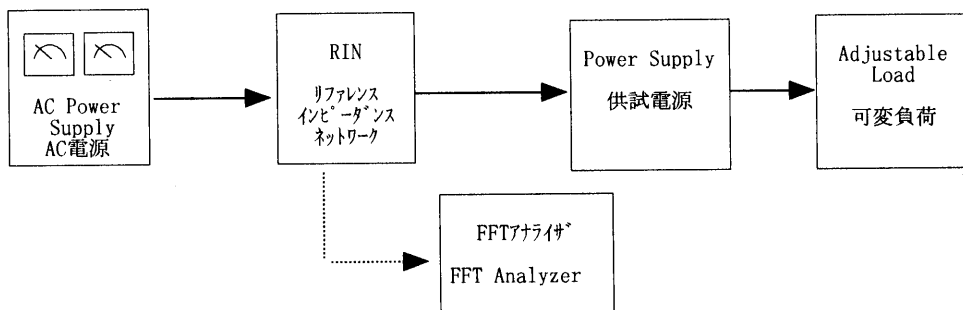


Figure E