



# TEST DATA OF RMC30A-1

(100V INPUT)

Regulated DC Power Supply

Date : June 4, 1999

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Design Manager

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Design Engineer

**コーセル株式会社**  
**COSEL CO., LTD.**



## CONTENTS

1. Line Regulation . . . . .	1
静的入力変動	
2. Efficiency (by Input Voltage) . . . . .	3
効率 (入力電圧特性)	
3. Power Factor (by Input Voltage) . . . . .	4
力率 (入力電圧特性)	
4. Hold-Up Time . . . . .	5
出力保持時間	
5. Instantaneous Interruption Compensation . . . . .	8
瞬時停電保障	
6. Load Regulation . . . . .	11
静的負荷変動	
7. Ripple Voltage (by Load Current) . . . . .	13
リップル電圧 (負荷特性)	
8. Ripple-Noise . . . . .	16
リップルノイズ	
9. Overcurrent Protection . . . . .	19
過電流保護	
10. Overvoltage Protection . . . . .	21
過電圧保護	
11. Inrush Current . . . . .	22
突入電流	
12. Dynamic Load Response . . . . .	23
動的負荷変動	
13. Rise and Fall Time . . . . .	26
立上り、立下がり時間	
14. Ambient Temperature Drift . . . . .	29
周囲温度変動	
15. Minimum Input Voltage for Regulated Output Voltage . . . . .	31
最低レギュレーション電圧	
16. Ripple Voltage (by Ambient Temperature) . . . . .	33
リップル電圧 (周囲温度特性)	
17. Time Lapse Drift . . . . .	35
経時ドリフト	
18. Output Voltage Accuracy . . . . .	37
定電圧精度	
19. Condensation . . . . .	38
結露特性	
20. Leakage Current . . . . .	41
漏洩電流	
21. Conducted Emission . . . . .	42
雑音端子電圧	
22. Figure of Testing Circuitry . . . . .	43
測定回路図	

(Final Page 44 )



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Model		RMC30A-1		Temperature 25℃ Testing Circuitry Figure A																															
Item		Line Regulation 静的入力変動																																	
Object		+5.0V3A																																	
1. Graph				2. Values																															
<div><div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div><div><table><thead><tr><th>Input Voltage [V]</th><th>Load 50% Output Volt. [V]</th><th>Load 100% Output Volt. [V]</th></tr></thead><tbody><tr><td>75</td><td>5.067</td><td>5.064</td></tr><tr><td>80</td><td>5.067</td><td>5.064</td></tr><tr><td>85</td><td>5.067</td><td>5.064</td></tr><tr><td>90</td><td>5.067</td><td>5.064</td></tr><tr><td>100</td><td>5.067</td><td>5.064</td></tr><tr><td>110</td><td>5.067</td><td>5.064</td></tr><tr><td>120</td><td>5.067</td><td>5.064</td></tr><tr><td>132</td><td>5.067</td><td>5.064</td></tr><tr><td>140</td><td>5.067</td><td>5.064</td></tr></tbody></table></div></div>				Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]	75	5.067	5.064	80	5.067	5.064	85	5.067	5.064	90	5.067	5.064	100	5.067	5.064	110	5.067	5.064	120	5.067	5.064	132	5.067	5.064	140	5.067	5.064		
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Object +12V1.20A				2. Values																															
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Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]																																	
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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。																																			



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Model		RMC30A-1	Temperature Testing Circuitry	25℃ Figure A
Item		Line Regulation 静的入力変動		
Object		-12.0V 0.3A		

1. Graph

□

Load 50%

△

Load 100%

Output Voltage [V]

-11.970

-11.990

-12.010

-12.030

-12.050

-12.070

-12.090

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]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75	-12.041	-12.034
80	-12.042	-12.032
85	-12.043	-12.031
90	-12.043	-12.030
100	-12.043	-12.030
110	-12.043	-12.029
120	-12.044	-12.029
132	-12.044	-12.029
140	-12.044	-12.029



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Model RMC30A-1		Temperature 25°C Testing Circuitry Figure A																																
Item	Efficiency 効率																																	
Object																																		
<p>1. Graph</p> <p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr> <tr> <th>Efficiency [%]</th><th>Efficiency [%]</th></tr> </thead> <tbody> <tr><td>75</td><td>66.8</td><td>67.5</td></tr> <tr><td>80</td><td>67.0</td><td>68.4</td></tr> <tr><td>85</td><td>67.0</td><td>69.1</td></tr> <tr><td>90</td><td>66.8</td><td>69.4</td></tr> <tr><td>100</td><td>66.8</td><td>70.1</td></tr> <tr><td>110</td><td>66.3</td><td>70.6</td></tr> <tr><td>120</td><td>65.7</td><td>71.0</td></tr> <tr><td>132</td><td>64.9</td><td>71.0</td></tr> <tr><td>140</td><td>64.6</td><td>71.0</td></tr> </tbody> </table>	Input Voltage [V]	Load 50%	Load 100%	Efficiency [%]	Efficiency [%]	75	66.8	67.5	80	67.0	68.4	85	67.0	69.1	90	66.8	69.4	100	66.8	70.1	110	66.3	70.6	120	65.7	71.0	132	64.9	71.0	140	64.6	71.0
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# COSEL

Model	RMC30A-1	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry	Figure A																																																			
Object	+5.0V3A																																																					
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<div> <div>△</div> Input Volt. 85 V <div>□</div> Input Volt. 100 V <div>○</div> Input Volt. 132 V </div> <p>Instantaneous Compensation Time [mS]</p> <p>Load Current [A]</p> <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy. Note: Slanted line shows the range of the rated load current.</p> <p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。 (注)斜線は定格負荷電流範囲を示す。</p>		<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>0.0</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>0.6</td><td>23</td><td>38</td><td>74</td></tr> <tr><td>1.2</td><td>20</td><td>31</td><td>61</td></tr> <tr><td>1.8</td><td>14</td><td>27</td><td>55</td></tr> <tr><td>2.4</td><td>12</td><td>23</td><td>45</td></tr> <tr><td>3.0</td><td>10</td><td>19</td><td>42</td></tr> <tr><td>3.3</td><td>5</td><td>14</td><td>39</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> </tbody> </table>		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Time [mS]			0.0	—	—	—	0.6	23	38	74	1.2	20	31	61	1.8	14	27	55	2.4	12	23	45	3.0	10	19	42	3.3	5	14	39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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# COSEL

Model

RMC30A-1

Item

Instantaneous Interruption Compensation  
瞬時停電保障

Object

+12.0V1.2A

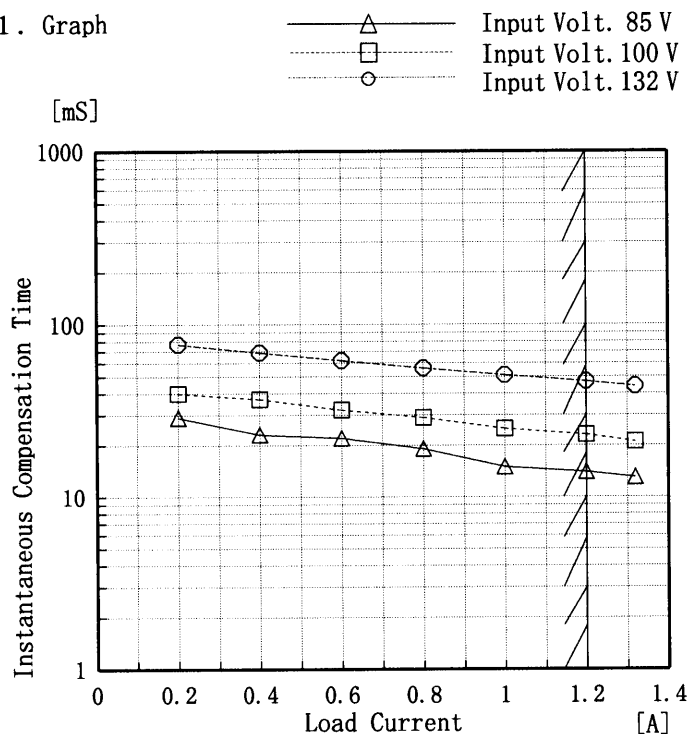
Temperature

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]		
0.00	—	—	—
0.20	29	40	77
0.40	23	37	69
0.60	22	32	62
0.80	19	29	56
1.00	15	25	51
1.20	14	23	47
1.20	14	23	47
1.32	13	21	44
—	—	—	—
—	—	—	—



# COSEL

Model	RMC30A-1	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry	Figure A																																																			
Object	-12.0V0.3A																																																					
1. Graph <div>             —△— Input Volt. 85 V              - -□- - Input Volt. 100 V              - -○- - Input Volt. 132 V           </div> <p>Instantaneous Compensation Time [mS]</p> <p>Load Current [A]</p> <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.        Note: Slanted line shows the range of the rated load current.</p> <p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。        (注) 斜線は定格負荷電流範囲を示す。</p>		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 colspan="3">Time [mS]</th></tr> </thead> <tbody> <tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>0.06</td><td>21</td><td>31</td><td>56</td></tr> <tr><td>0.12</td><td>19</td><td>28</td><td>53</td></tr> <tr><td>0.18</td><td>18</td><td>27</td><td>51</td></tr> <tr><td>0.24</td><td>15</td><td>24</td><td>48</td></tr> <tr><td>0.30</td><td>15</td><td>23</td><td>48</td></tr> <tr><td>0.33</td><td>14</td><td>23</td><td>47</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> </tbody> </table>		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Time [mS]			0.00	—	—	—	0.06	21	31	56	0.12	19	28	53	0.18	18	27	51	0.24	15	24	48	0.30	15	23	48	0.33	14	23	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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# COSEL

Model RMC30A-1		Temperature 25°C																																																
Item	Load Regulation 静的負荷変動	Testing Circuitry Figure A																																																
Object	+5.0V3A																																																	
1. Graph		2. Values																																																
<div> <div> <div>△</div> <div>Input Volt. 85 V</div> </div> <div> <div>□</div> <div>Input Volt. 100 V</div> </div> <div> <div>○</div> <div>Input Volt. 132 V</div> </div> </div>		<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>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr> <tr><td>0.0</td><td>5.070</td><td>5.070</td><td>5.070</td></tr> <tr><td>0.6</td><td>5.068</td><td>5.068</td><td>5.069</td></tr> <tr><td>1.2</td><td>5.067</td><td>5.067</td><td>5.067</td></tr> <tr><td>1.8</td><td>5.066</td><td>5.066</td><td>5.066</td></tr> <tr><td>2.4</td><td>5.065</td><td>5.065</td><td>5.065</td></tr> <tr><td>3.0</td><td>5.064</td><td>5.064</td><td>5.064</td></tr> <tr><td>3.3</td><td>5.063</td><td>5.063</td><td>5.063</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]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.0	5.070	5.070	5.070	0.6	5.068	5.068	5.069	1.2	5.067	5.067	5.067	1.8	5.066	5.066	5.066	2.4	5.065	5.065	5.065	3.0	5.064	5.064	5.064	3.3	5.063	5.063	5.063	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																															
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# COSEL

Model		RMC30A-1	Temperature 25℃ Testing Circuitry Figure A
Item		Load Regulation 静的負荷変動	
Object		-12.0V0.3A	

1. Graph

△

—

Input Volt. 85 V

□

- - -

Input Volt. 100 V

○

- - -

Input Volt. 132 V

Output Voltage [V]

-11.900

-11.940

-11.980

-12.020

-12.060

-12.100

-12.140

0

0

0.1

0.2

0.3

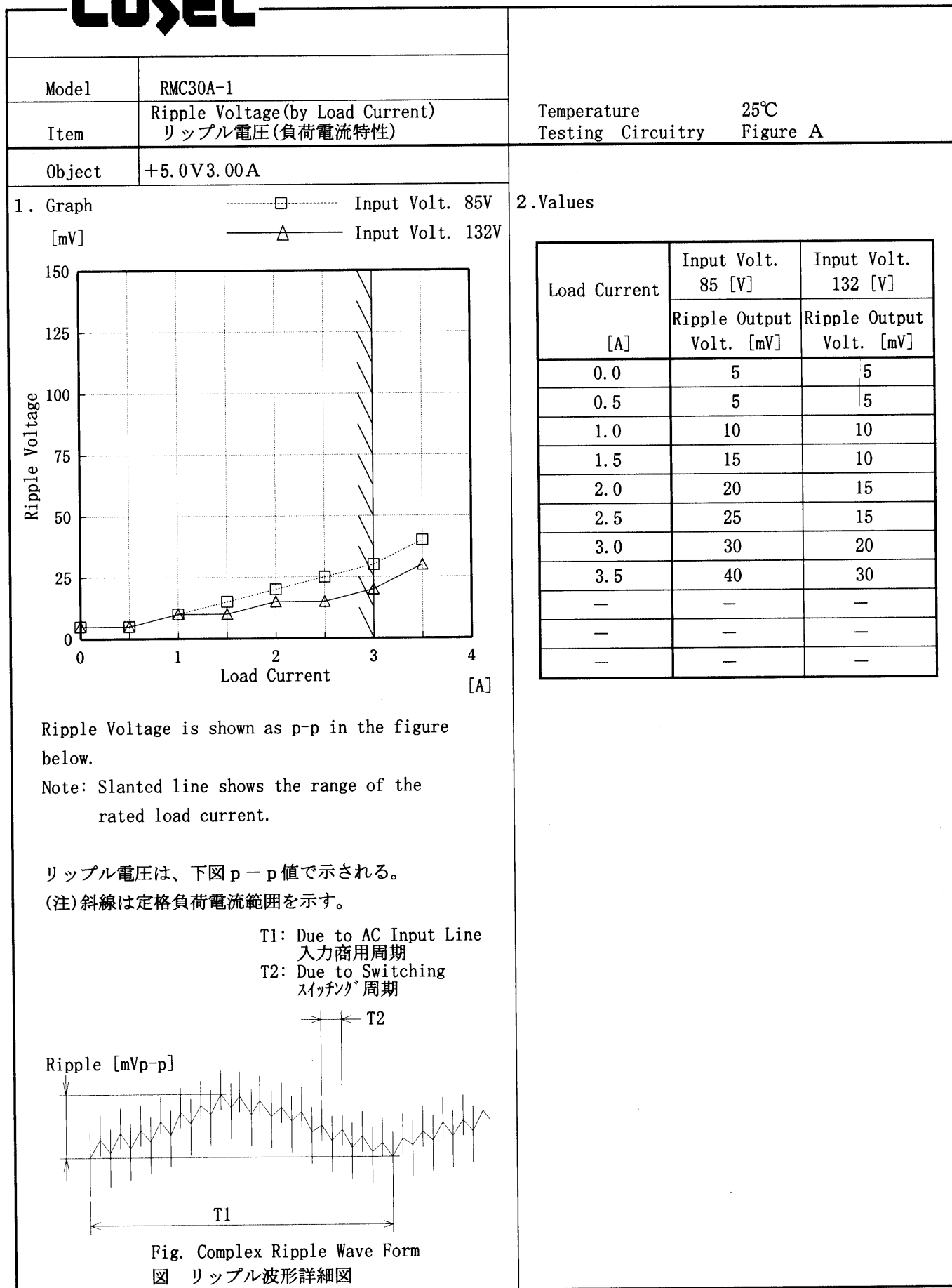
0.4

Load Current [A]

</



# COSEL



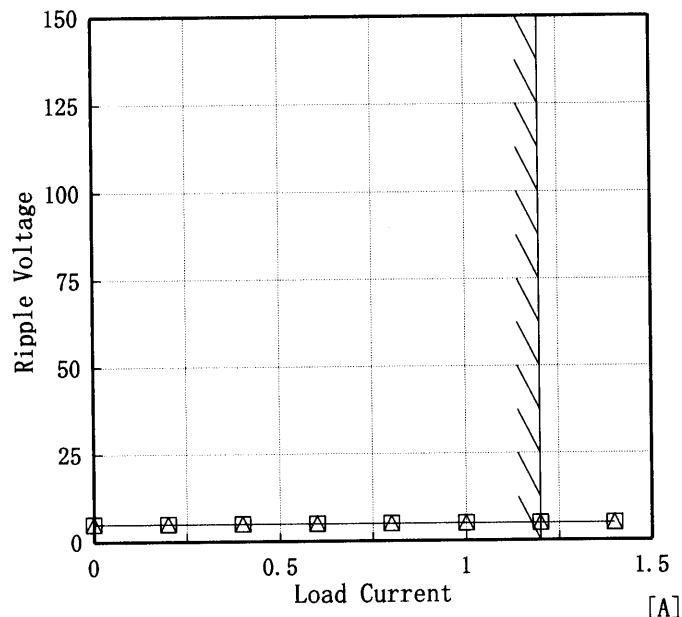


# COSEL

Model	RMC30A-1
Item	Ripple Voltage (by Load Current) リップル電圧(負荷電流特性)
Object	+12.0V 1.20A

Temperature 25°C  
Testing Circuitry Figure A

1. Graph
- [mV]
- Input Volt. 85V  
-----△----- Input Volt. 132V



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

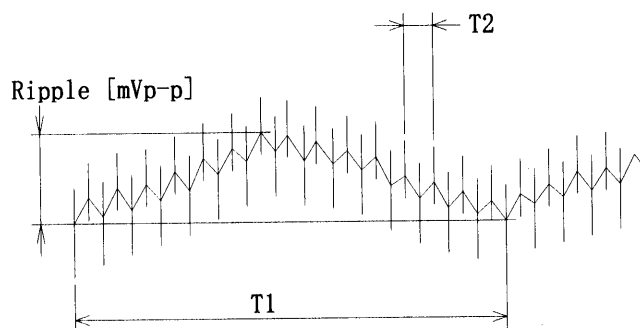


Fig. Complex Ripple Wave Form

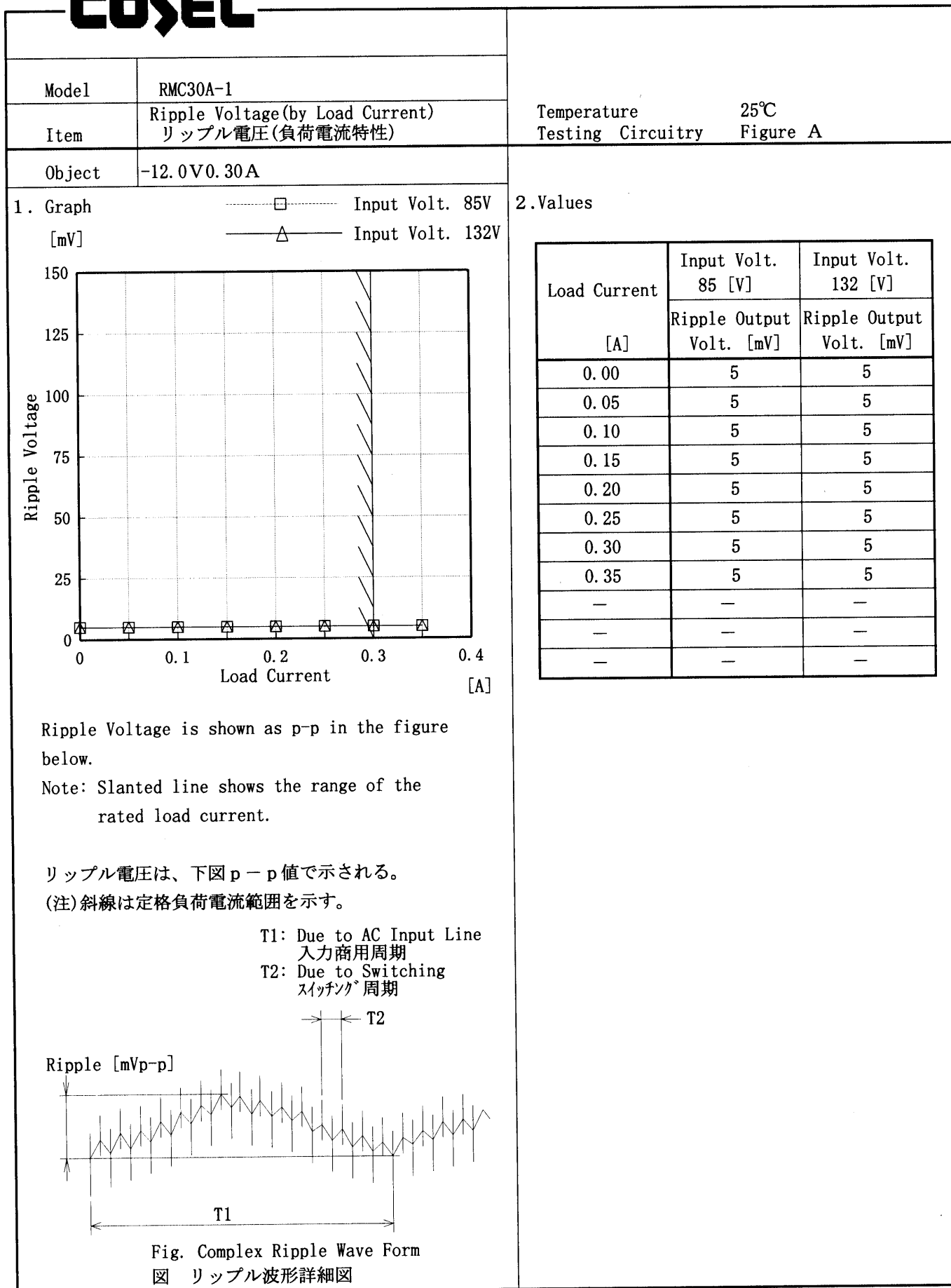
図 リップル波形詳細図

## 2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.0	5	5
0.2	5	5
0.4	5	5
0.6	5	5
0.8	5	5
1.0	5	5
1.2	5	5
1.4	5	5
—	—	—
—	—	—
—	—	—

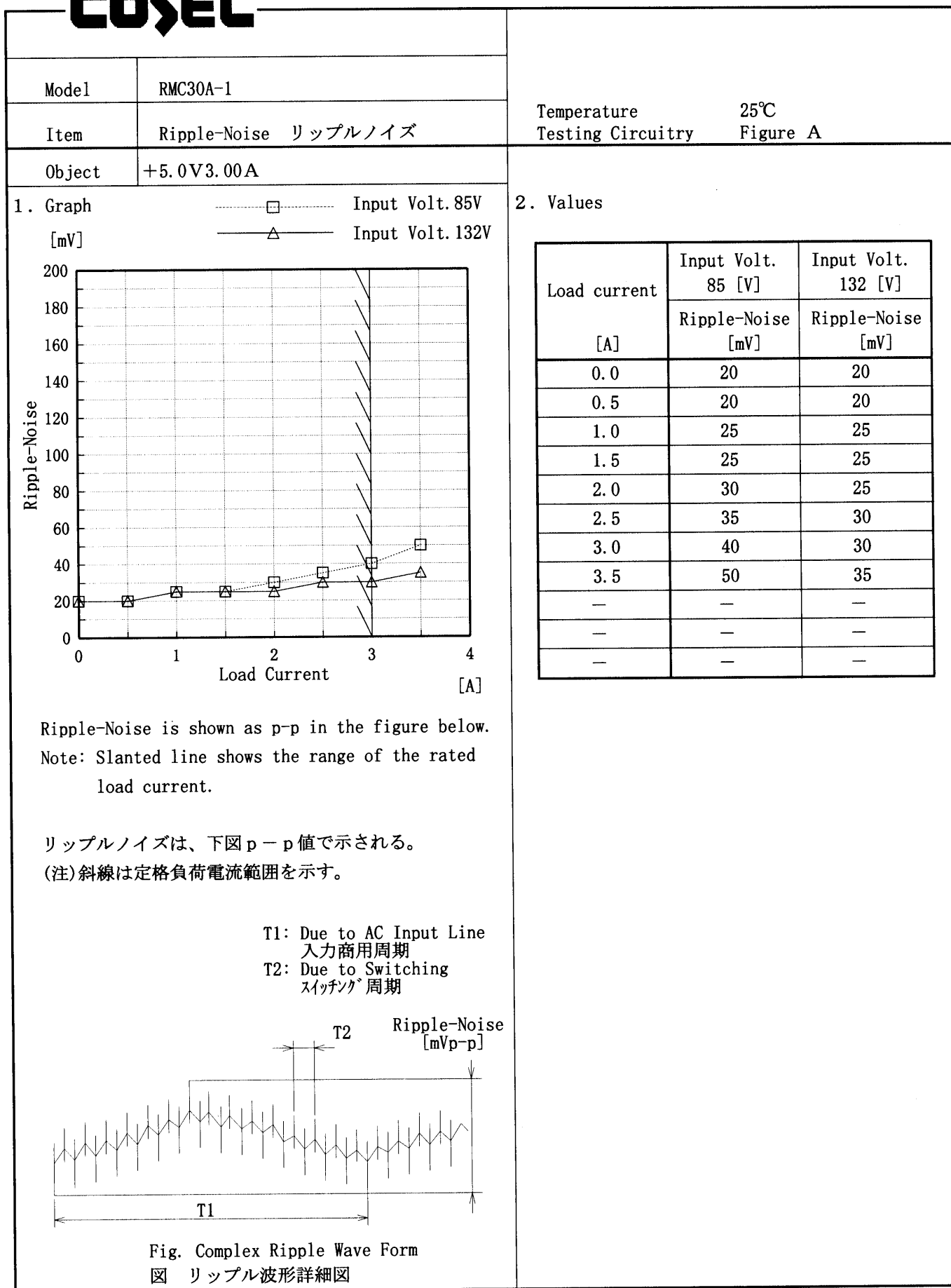


# COSEL



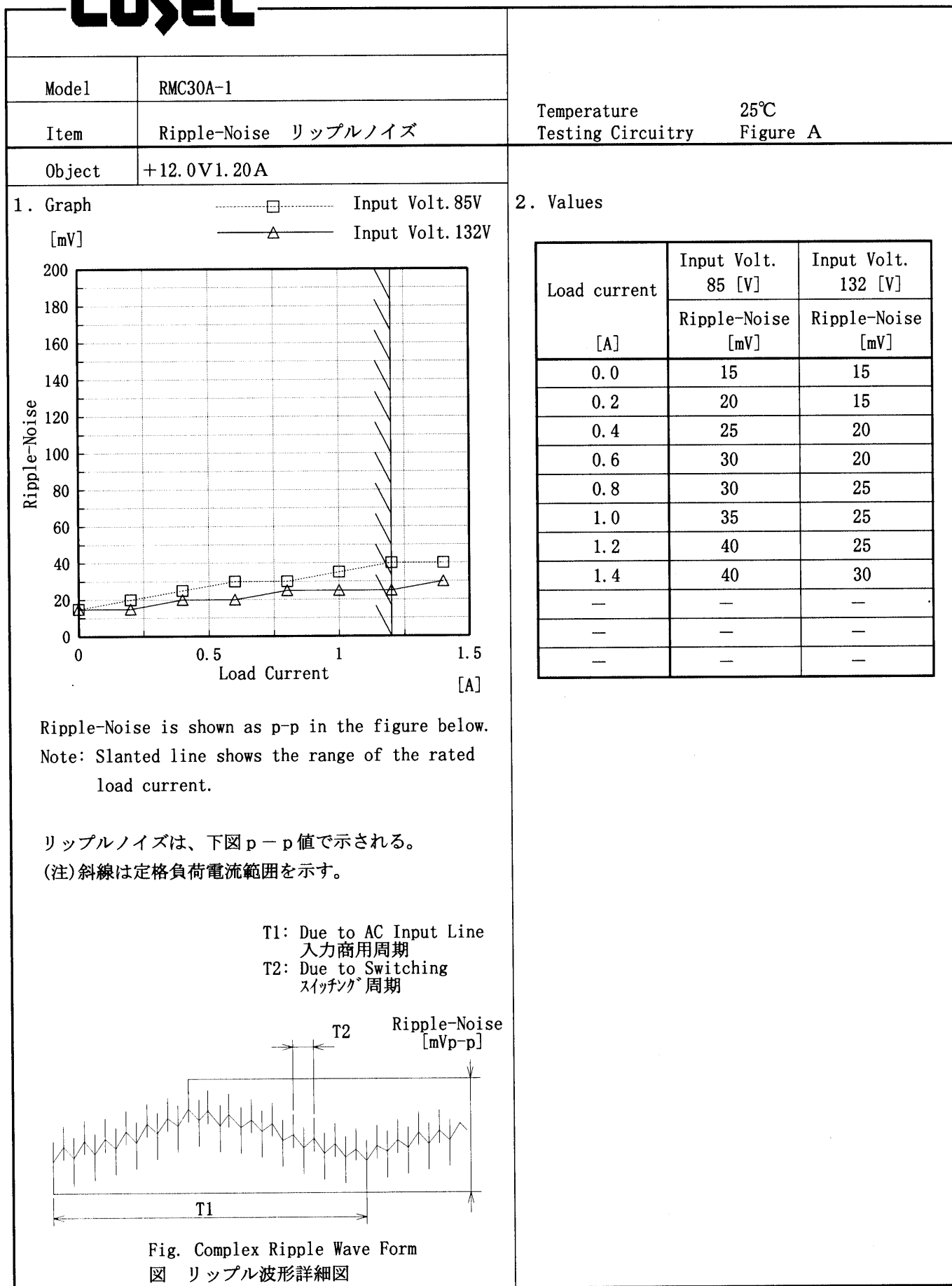


# COSEL



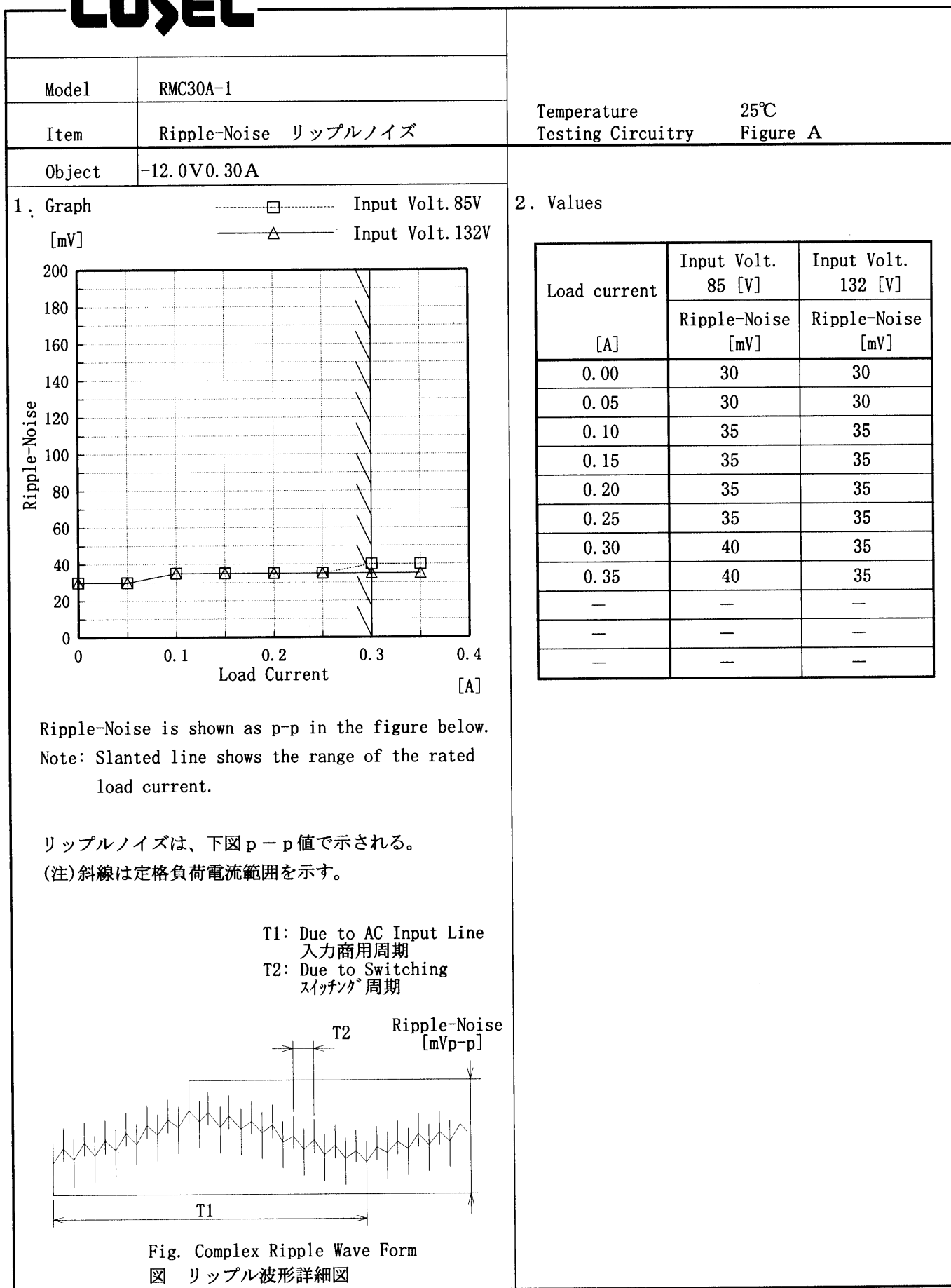


# COSEL





# COSEL



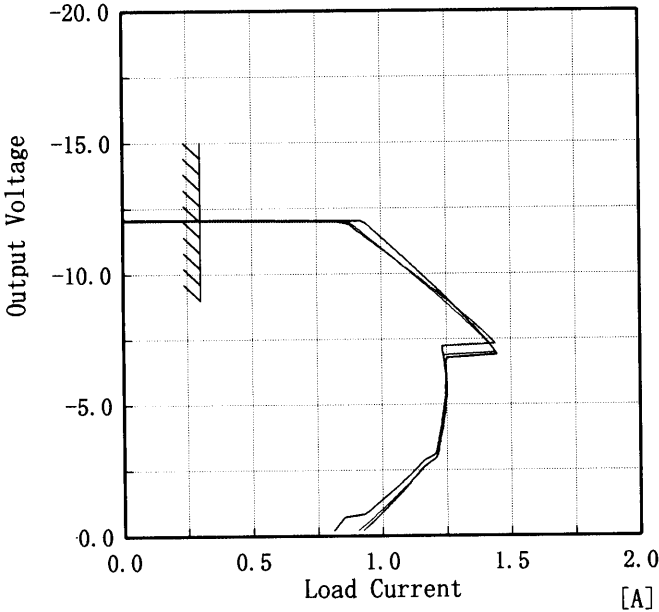


**COSEL**

Model		RMC30A-1		Temperature 25℃ Testing Circuitry Figure A																																																								
Item		Overcurrent Protection 過電流保護																																																										
Object		+5.0V3A																																																										
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**COSEL**

Model		RMC30A-1	Temperature25℃ Testing CircuitryFigure A																																																							
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		<table><tr><td rowspan="2">Output Voltage [V]</td><td>Input Volt. 85[V]</td><td>Input Volt. 100[V]</td><td>Input Volt. 132[V]</td></tr><tr><td>Load Current [A]</td><td>Load Current [A]</td><td>Load Current [A]</td></tr><tr><td>-12.00</td><td>0.83</td><td>0.88</td><td>0.94</td></tr><tr><td>-11.40</td><td>0.94</td><td>0.95</td><td>1.00</td></tr><tr><td>-10.80</td><td>1.03</td><td>1.03</td><td>1.07</td></tr><tr><td>-9.60</td><td>1.18</td><td>1.17</td><td>1.20</td></tr><tr><td>-8.40</td><td>1.33</td><td>1.31</td><td>1.32</td></tr><tr><td>-7.20</td><td>1.23</td><td>1.43</td><td>1.43</td></tr><tr><td>-6.00</td><td>1.25</td><td>1.25</td><td>1.25</td></tr><tr><td>-4.80</td><td>1.24</td><td>1.24</td><td>1.24</td></tr><tr><td>-3.60</td><td>1.22</td><td>1.22</td><td>1.22</td></tr><tr><td>-2.40</td><td>1.14</td><td>1.14</td><td>1.11</td></tr><tr><td>-1.20</td><td>1.03</td><td>1.02</td><td>0.98</td></tr><tr><td>0.00</td><td>0.92</td><td>0.90</td><td>0.81</td></tr></table>	Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Load Current [A]	Load Current [A]	Load Current [A]	-12.00	0.83	0.88	0.94	-11.40	0.94	0.95	1.00	-10.80	1.03	1.03	1.07	-9.60	1.18	1.17	1.20	-8.40	1.33	1.31	1.32	-7.20	1.23	1.43	1.43	-6.00	1.25	1.25	1.25	-4.80	1.24	1.24	1.24	-3.60	1.22	1.22	1.22	-2.40	1.14	1.14	1.11	-1.20	1.03	1.02	0.98	0.00	0.92	0.90	0.81	
Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]		Input Volt. 132[V]																																																						
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# COSEL

Model		RMC30A-1
Item		Overvoltage Protection 過電圧保護
Object		+5.0V3A

1. Graph

△

Input Volt. 85 V

□

Input Volt. 100 V

○

Input Volt. 132 V

Operating Point [V]

9.94

8.94

7.94

6.94

5.94

4.94

3.94

0

-30

-10

10

30

50

70

Ambient Temperature [°C]

Load 0%

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

(注)斜線は定格周囲温度範囲を示す。

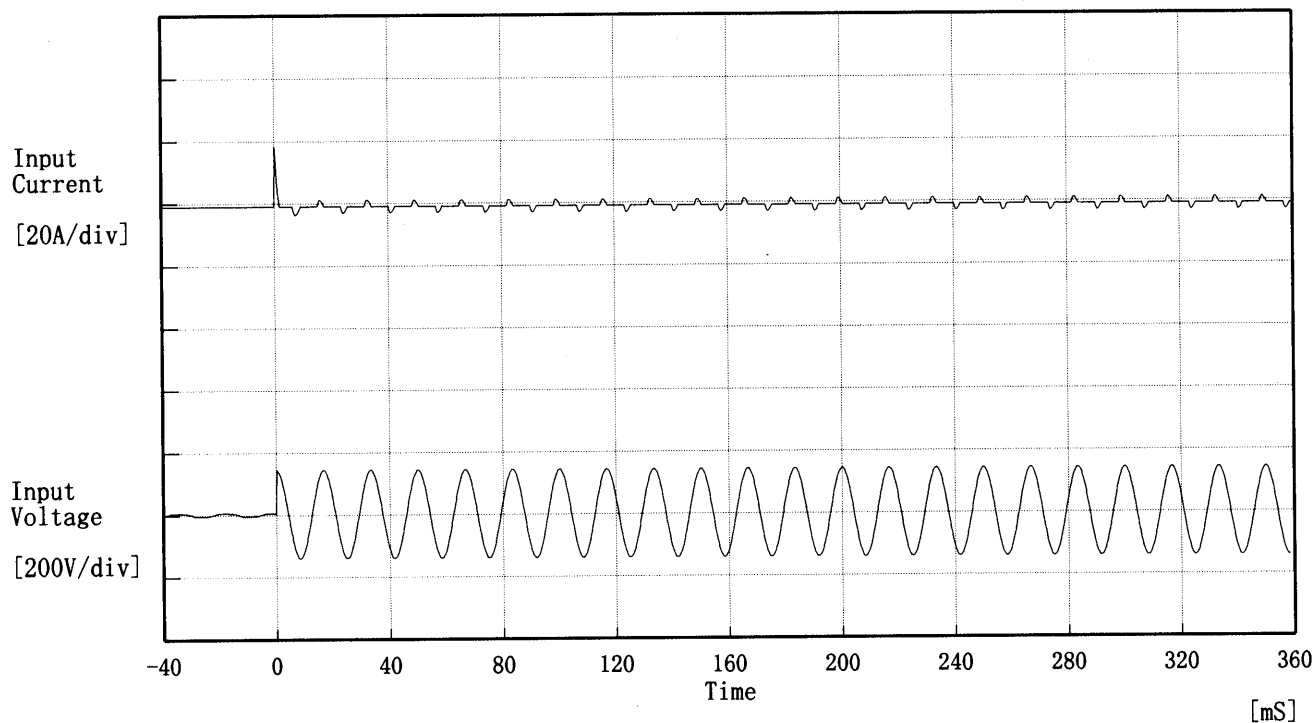
2. Values

Ambient Temp.	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
[°C]	Operating Point [V]		
-20	6.48	6.48	6.48
-10	6.48	6.48	6.48
0	6.48	6.48	6.48
10	6.41	6.48	6.48
20	6.41	6.42	6.42
25	6.41	6.42	6.42
30	6.42	6.42	6.42
40	6.42	6.42	6.42
50	6.41	6.41	6.41
60	6.41	6.41	6.41
—	—	—	—



**COSEL**

Model	RMC30A-1	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 100 V

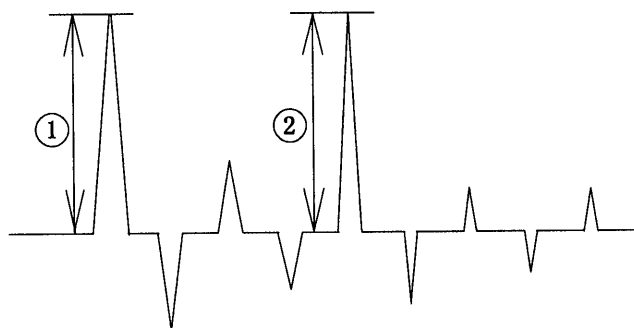
Frequency 60 Hz

Load 100 %

Inrush Current

① 18.46 [A]

② 2.93 [A]





**COSEL**

Model	RMC30A-1	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5.0V3.00A	

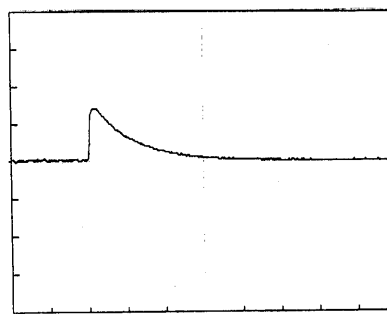
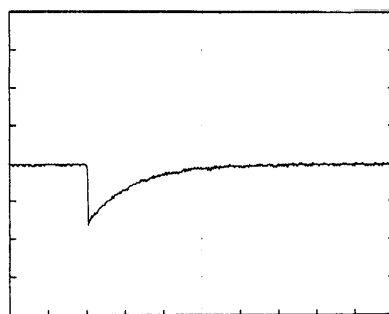
Input Volt. 100 V

Cycle 1000 mS

Load Current

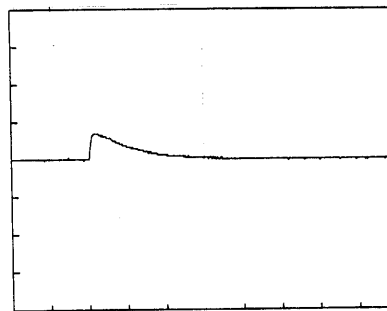
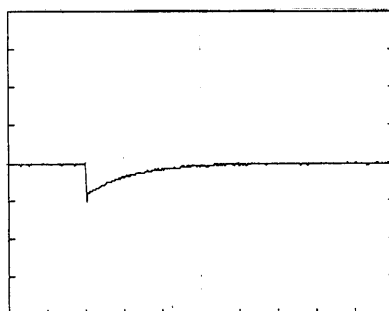
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div



# COSEL

Model	RMC30A-1	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+12.0V 1.20A	

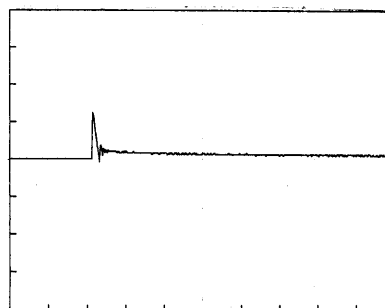
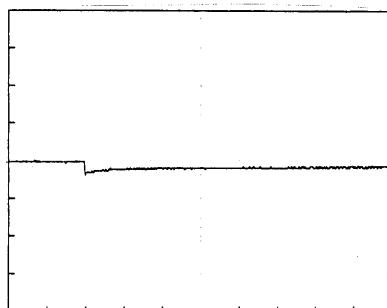
Input Volt. 100 V

Cycle 1000 mS

Load Current

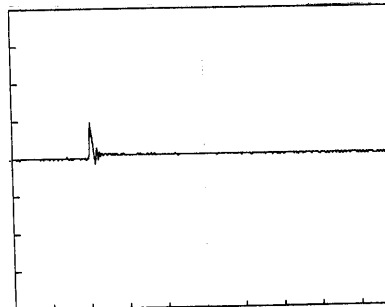
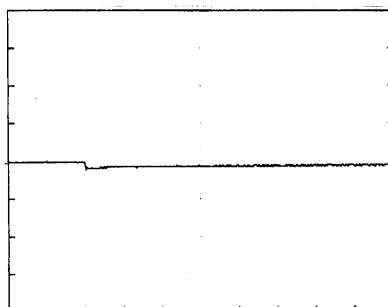
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div



# COSEL

Model	RMC30A-1	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	-12.0V 0.30A	

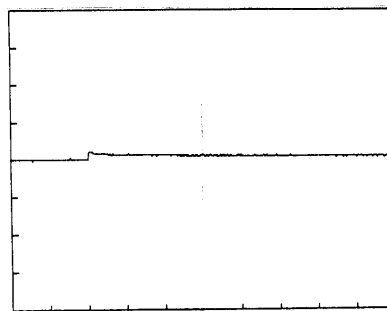
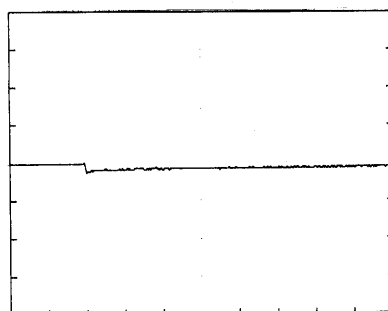
Input Volt. 100 V

Cycle 1000 mS

Load Current

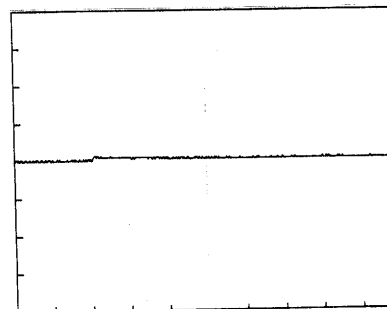
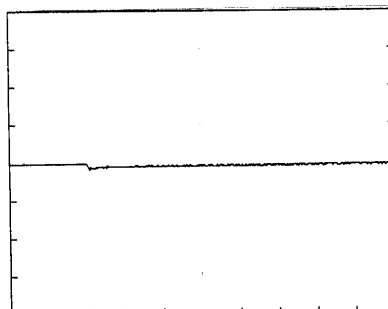
Load 0% ↔

Load 100 %



Load 0% ↔

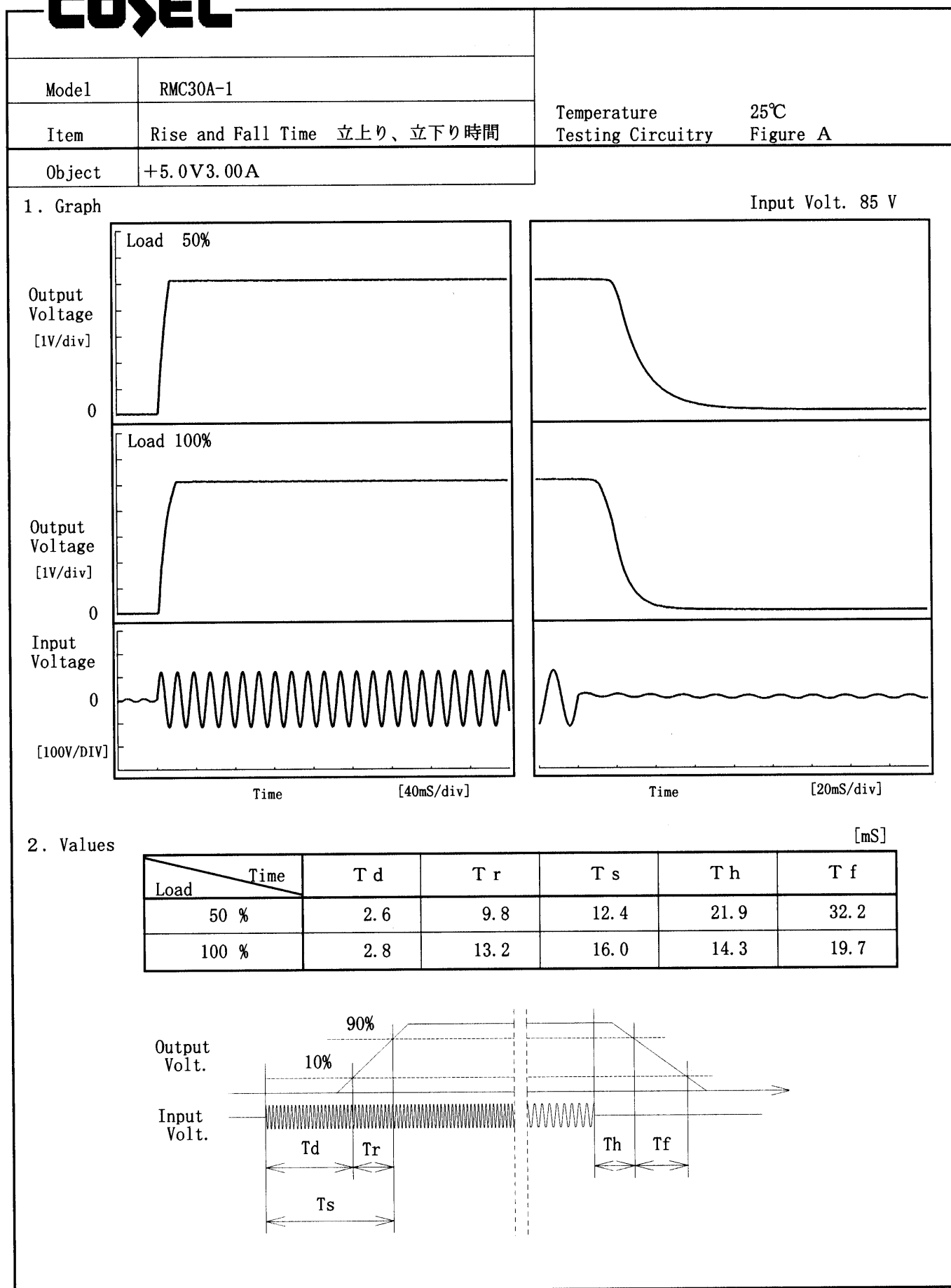
Load 50 %



100 mV/div

10 mS/div



**COSEL**

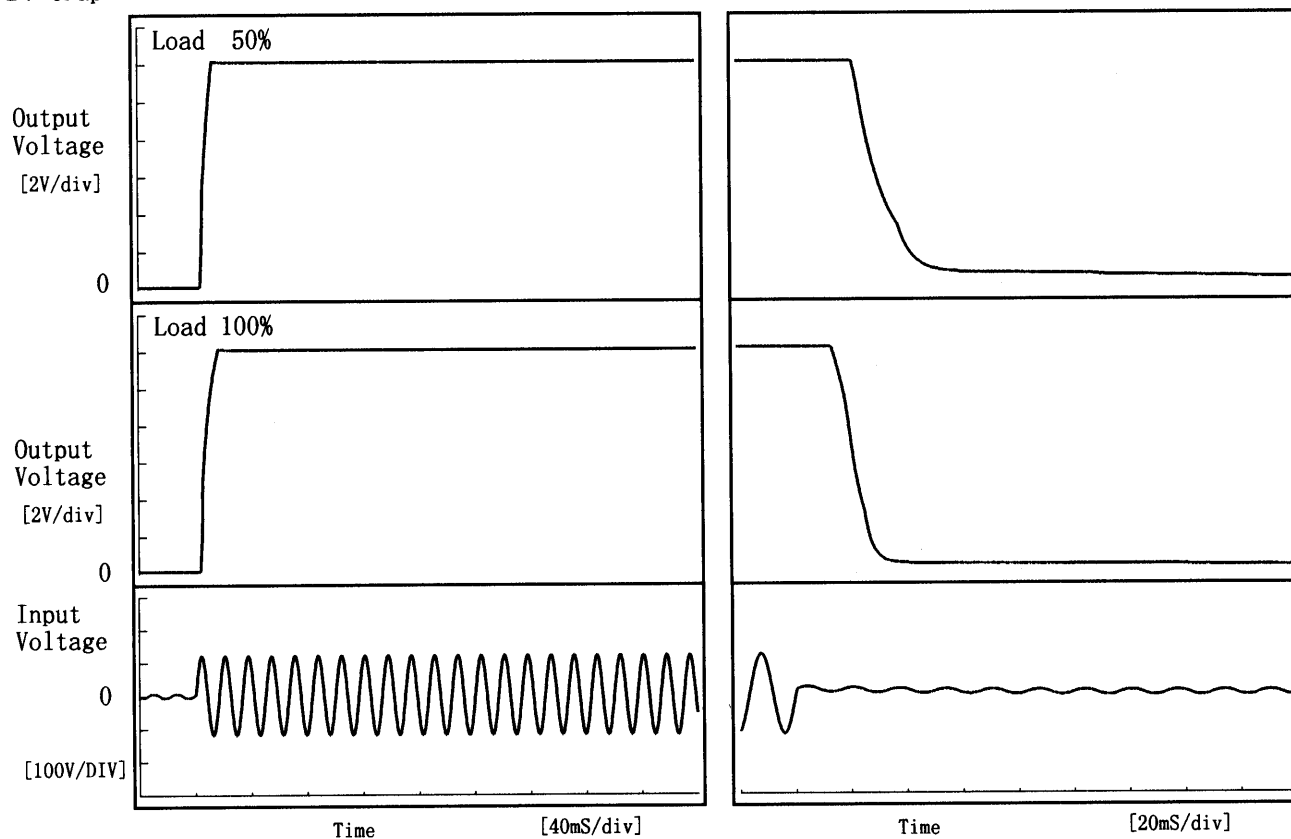


**COSEL**

Model	RMC30A-1	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V 1.20A		

## 1. Graph

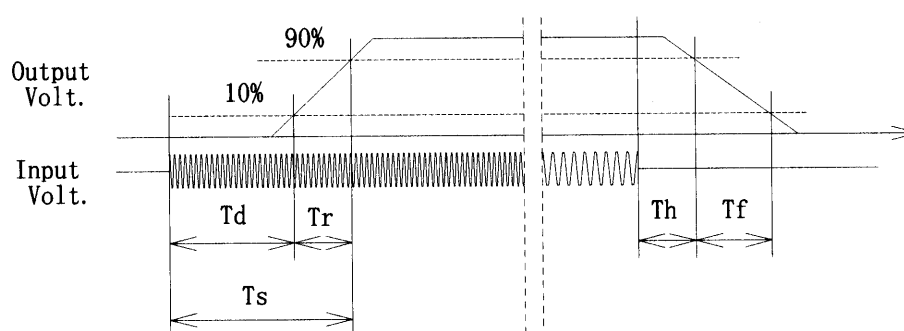
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	4.6	6.6	11.2	23.1	23.5
100 %	4.6	9.0	13.6	16.1	12.9



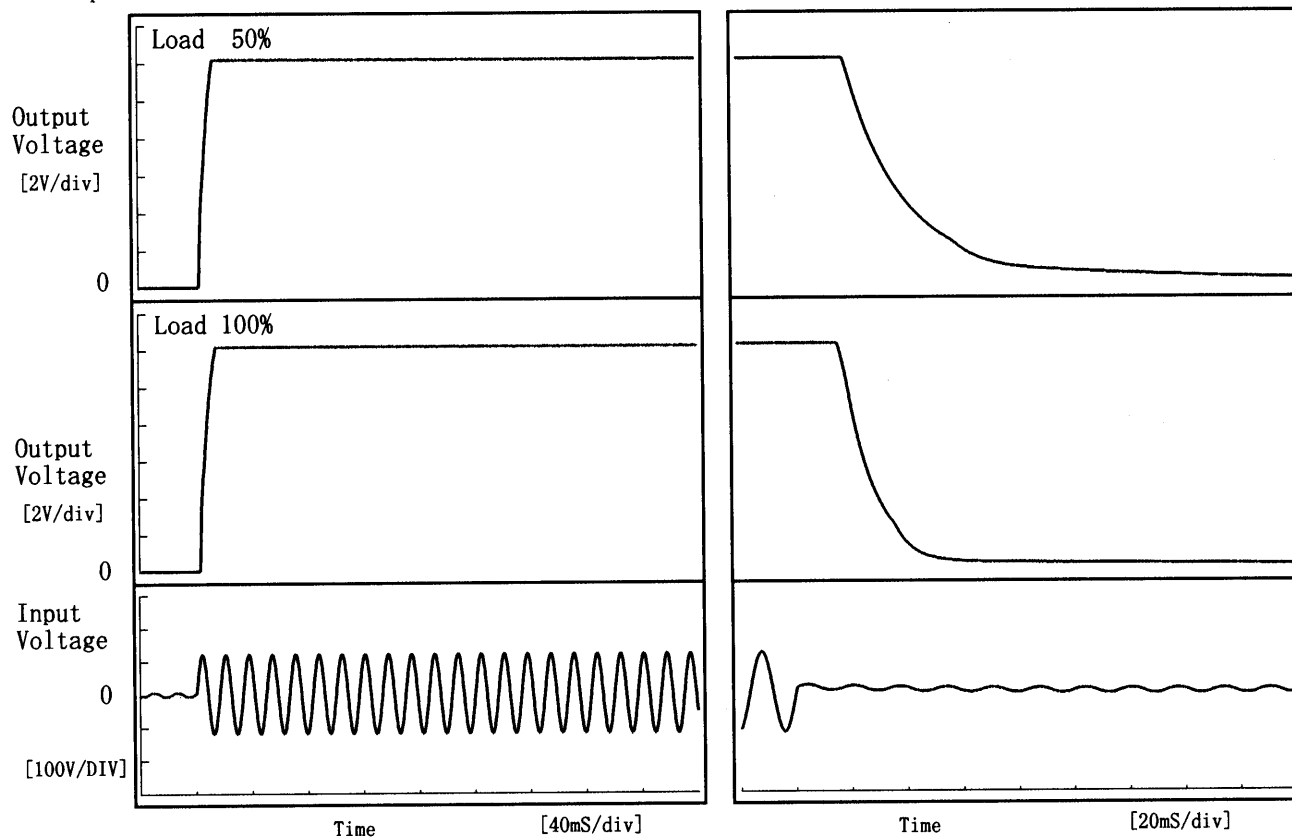


**COSEL**

Model	RMC30A-1	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	-12.0V0.30A		

## 1. Graph

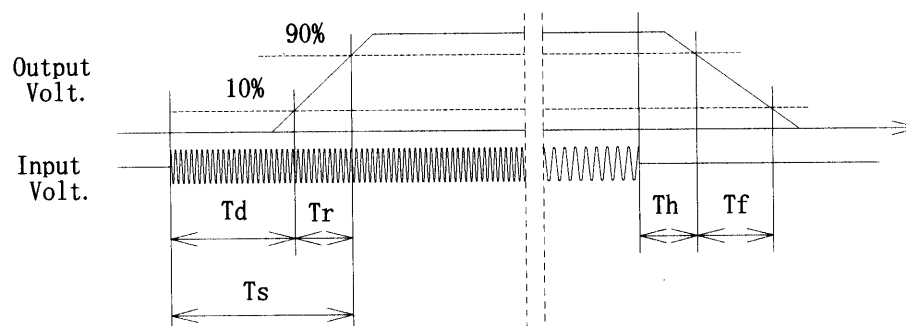
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.2	8.0	11.2	20.8	52.0
100 %	3.6	8.8	12.4	18.0	24.2





# COSEL

Model		RMC30A-1																																																					
Item		Ambient Temperature Drift 周囲温度変動																																																					
Object		+5.0V3.00A																																																					
1. Graph		2. Values																																																					
<div><div><div>△</div><div>Input Volt. 85.0V</div></div><div><div>□</div><div>Input Volt. 100.0V</div></div><div><div>○</div><div>Input Volt. 132.0V</div></div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th>Temperature</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>[°C]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>-20</td><td>5.063</td><td>5.063</td><td>5.064</td></tr><tr><td>-10</td><td>5.064</td><td>5.064</td><td>5.064</td></tr><tr><td>0</td><td>5.064</td><td>5.064</td><td>5.064</td></tr><tr><td>10</td><td>5.063</td><td>5.063</td><td>5.063</td></tr><tr><td>20</td><td>5.062</td><td>5.062</td><td>5.062</td></tr><tr><td>25</td><td>5.061</td><td>5.061</td><td>5.061</td></tr><tr><td>30</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>40</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>50</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>60</td><td>5.051</td><td>5.051</td><td>5.051</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	[°C]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	5.063	5.063	5.064	-10	5.064	5.064	5.064	0	5.064	5.064	5.064	10	5.063	5.063	5.063	20	5.062	5.062	5.062	25	5.061	5.061	5.061	30	5.060	5.060	5.060	40	5.057	5.057	5.057	50	5.054	5.054	5.054	60	5.051	5.051	5.051	—	—	—	—
Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																				
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Object		+12V1.20A																																																					
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Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																				
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# COSEL

Model		RMC30A-1	Testing Circuitry    Figure A
Item		Ambient Temperature Drift 周囲温度変動	
Object		-12.0V0.30A	
1. Graph			2. Values
<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div>△</div><div>□</div><div>○</div></div><div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 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# COSEL

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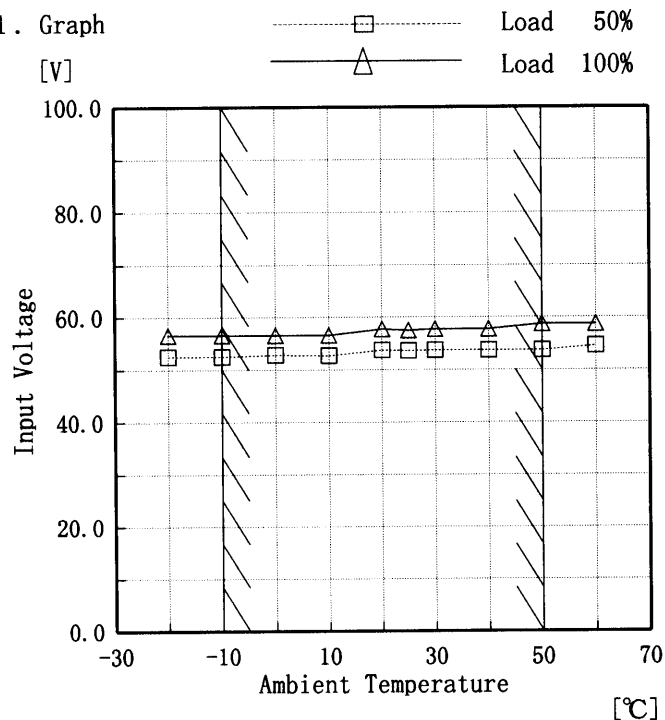
Model RMC30A-1

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

Object -12.0V0.30A

Testing Circuitry Figure A

## 1. Graph



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

(注) 斜線は定格周囲温度範囲を示す。

## 2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	53	57
-10	53	57
0	53	57
10	53	57
20	54	58
25	54	58
30	54	58
40	54	58
50	54	59
60	55	59
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# COSEL

Model RMC30A-1		Testing Circuitry Figure A																																				
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																					
Object	+5.0V3.00A																																					
1. Graph <div> <div>□ Load 50%</div> <div>△ Load 100%</div> </div> <p>Input Volt. 100 V</p>		2. Values <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>80</td><td>150</td></tr> <tr><td>-10</td><td>50</td><td>100</td></tr> <tr><td>0</td><td>40</td><td>60</td></tr> <tr><td>10</td><td>30</td><td>50</td></tr> <tr><td>20</td><td>20</td><td>40</td></tr> <tr><td>25</td><td>20</td><td>40</td></tr> <tr><td>30</td><td>20</td><td>30</td></tr> <tr><td>40</td><td>10</td><td>20</td></tr> <tr><td>50</td><td>10</td><td>20</td></tr> <tr><td>60</td><td>10</td><td>20</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	80	150	-10	50	100	0	40	60	10	30	50	20	20	40	25	20	40	30	20	30	40	10	20	50	10	20	60	10	20	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
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Object +12V1.20A <div> <div>□ Load 50%</div> <div>△ Load 100%</div> </div> <p>Input Volt. 100 V</p> <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>		2. Values <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>5</td><td>20</td></tr> <tr><td>-10</td><td>5</td><td>10</td></tr> <tr><td>0</td><td>5</td><td>5</td></tr> <tr><td>10</td><td>5</td><td>5</td></tr> <tr><td>20</td><td>5</td><td>5</td></tr> <tr><td>25</td><td>5</td><td>5</td></tr> <tr><td>30</td><td>5</td><td>5</td></tr> <tr><td>40</td><td>5</td><td>5</td></tr> <tr><td>50</td><td>5</td><td>5</td></tr> <tr><td>60</td><td>5</td><td>5</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	5	20	-10	5	10	0	5	5	10	5	5	20	5	5	25	5	5	30	5	5	40	5	5	50	5	5	60	5	5	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
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# COSEL

Model		RMC30A-1
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	
Object	-12.0V0.30A	

1. Graph

-----□----- Load 50%

-----△----- Load 100%

[mV]

150

125

100

75

50

25

0

Ripple Voltage

Ambient Temperature

[°C]

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。

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	5	10
-10	5	10
0	5	5
10	5	5
20	5	5
25	5	5
30	5	5
40	5	5
50	5	5
60	5	5
—	—	—

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	5	10
-10	5	10
0	5	5
10	5	5
20	5	5
25	5	5
30	5	5
40	5	5
50	5	5
60	5	5
—	—	—

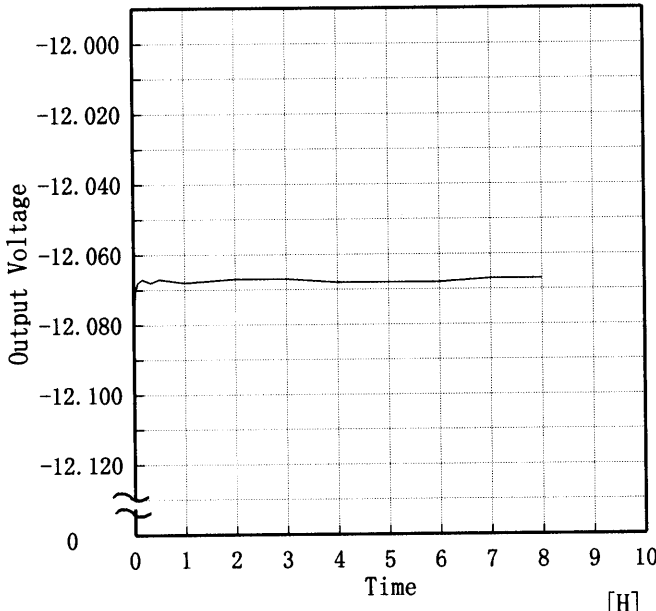


# COSEL

COSEL			
Model	RMC30A-1	Temperature	25 ℃
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A
Object	+5.0V3.00A		
1. Graph		2.Values	
<div><div><div>[V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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# COSEL

COSEL																												
Model		RMC30A-1		Temperature Testing Circuitry	25 ℃ Figure A																							
Item		Time Lapse Drift 経時ドリフト																										
Object		-12.0V0.3A																										
1. Graph					2.Values																							
<div><div>[V]</div><div></div><div>Output Voltage</div><div>Time</div><div>Input Volt. 100V</div><div>Load 100%</div></div>					<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-12.099</td></tr><tr><td>0.5</td><td>-12.067</td></tr><tr><td>1.0</td><td>-12.068</td></tr><tr><td>2.0</td><td>-12.067</td></tr><tr><td>3.0</td><td>-12.067</td></tr><tr><td>4.0</td><td>-12.068</td></tr><tr><td>5.0</td><td>-12.068</td></tr><tr><td>6.0</td><td>-12.068</td></tr><tr><td>7.0</td><td>-12.067</td></tr><tr><td>8.0</td><td>-12.067</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-12.099	0.5	-12.067	1.0	-12.068	2.0	-12.067	3.0	-12.067	4.0	-12.068	5.0	-12.068	6.0	-12.068	7.0	-12.067	8.0	-12.067
Time since start [H]	Output Voltage [V]																											
0.0	-12.099																											
0.5	-12.067																											
1.0	-12.068																											
2.0	-12.067																											
3.0	-12.067																											
4.0	-12.068																											
5.0	-12.068																											
6.0	-12.068																											
7.0	-12.067																											
8.0	-12.067																											







# COSEL

COSEL

Model	RMC30A-1
Item	Condensation 結露特性
Object	+5.0V3A

Testing Circuitry      Figure A

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

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

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	5.064	Input Volt.: 100V, Load Current:3A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:3A
Load Regulation [mV]	6	Input Volt.: 100V, Load Current:0～3A



# COSEL

COSEL

		Testing Circuitry      Figure A
Model	RMC30A-1	
Item	Condensation    結露特性	
Object	+12.0V1.2A	

1. Condensation test

Testing procedure is as follows.

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

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

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

1. 結露特性試験

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

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	12.022	Input Volt.: 100V, Load Current:1.2A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:1.2A
Load Regulation [mV]	15	Input Volt.: 100V, Load Current:0.0～1.2A



**COSEL**

# COSEL

		Testing Circuitry      Figure A
Model	RMC30A-1	
Item	Condensation   結露特性	
Object	-12.0V0.3A	

1. Condensation test

Testing procedure is as follows.

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

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

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

1. 結露特性試験

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

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	-12.036	Input Volt. : 100V, Load Current:0.3A
Line Regulation [mV]	1	Input Volt. : 85～132V, Load Current:0.3A
Load Regulation [mV]	10	Input Volt. : 100V, Load Current:0.0～0.3A



**COSEL**

Model	RMC30A-1	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	0.16	0.18	0.25
(B) IEC60950	0.15	0.18	0.24

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

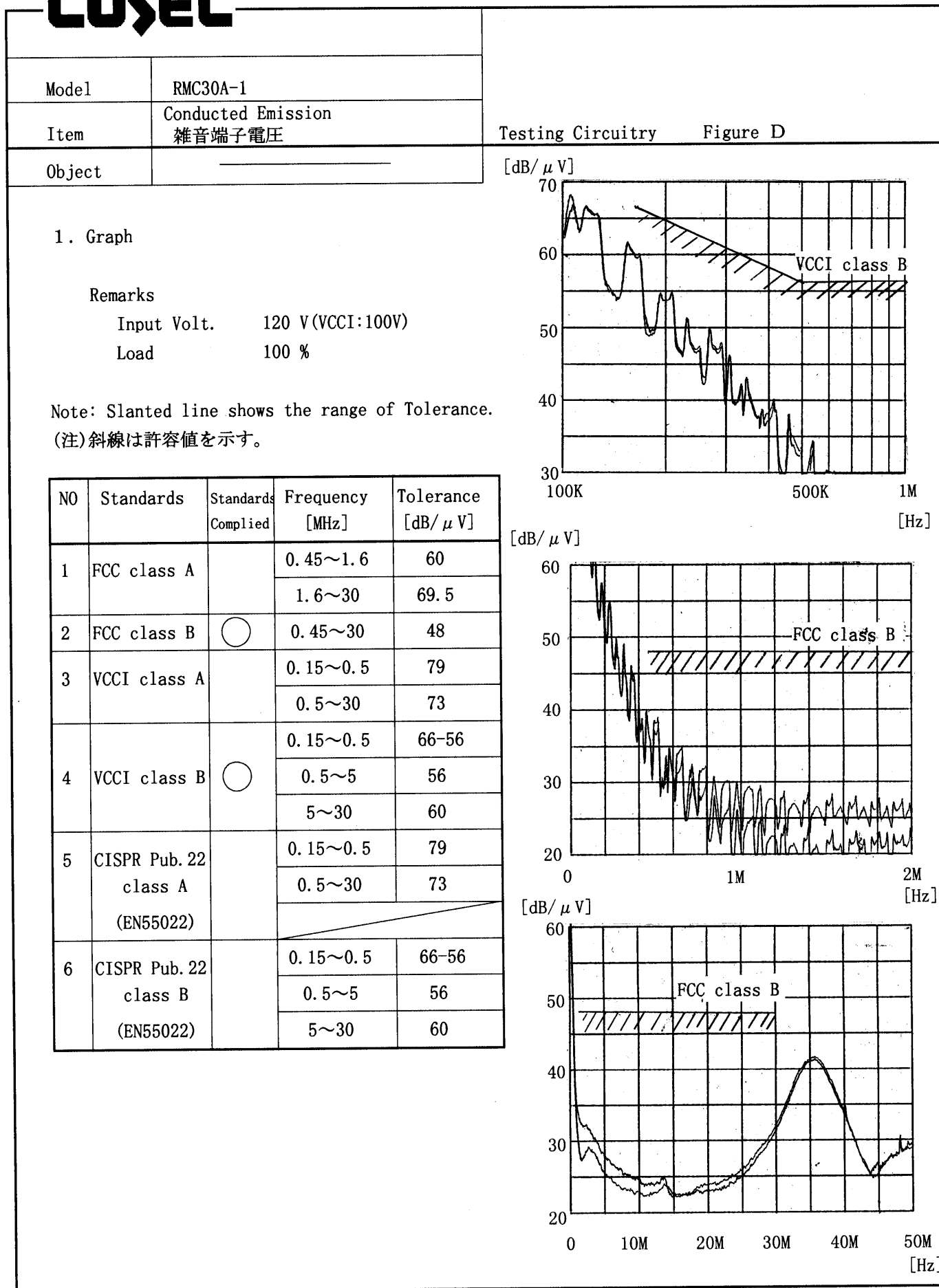
## 2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。



# COSEL





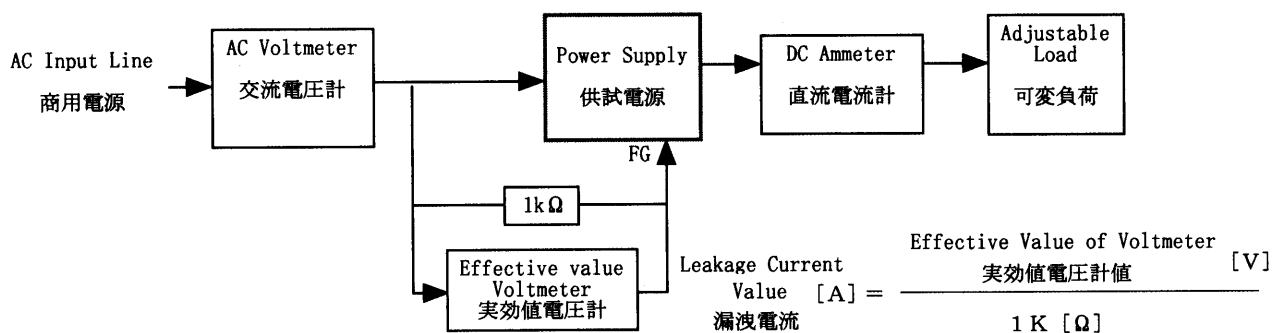
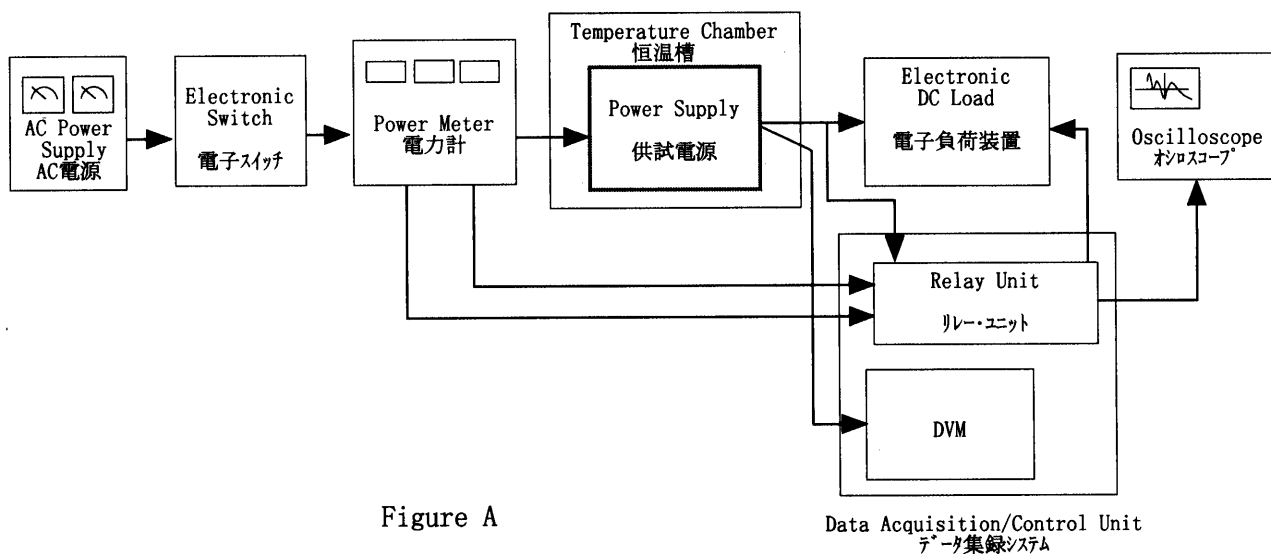


Figure B (DENTORI)

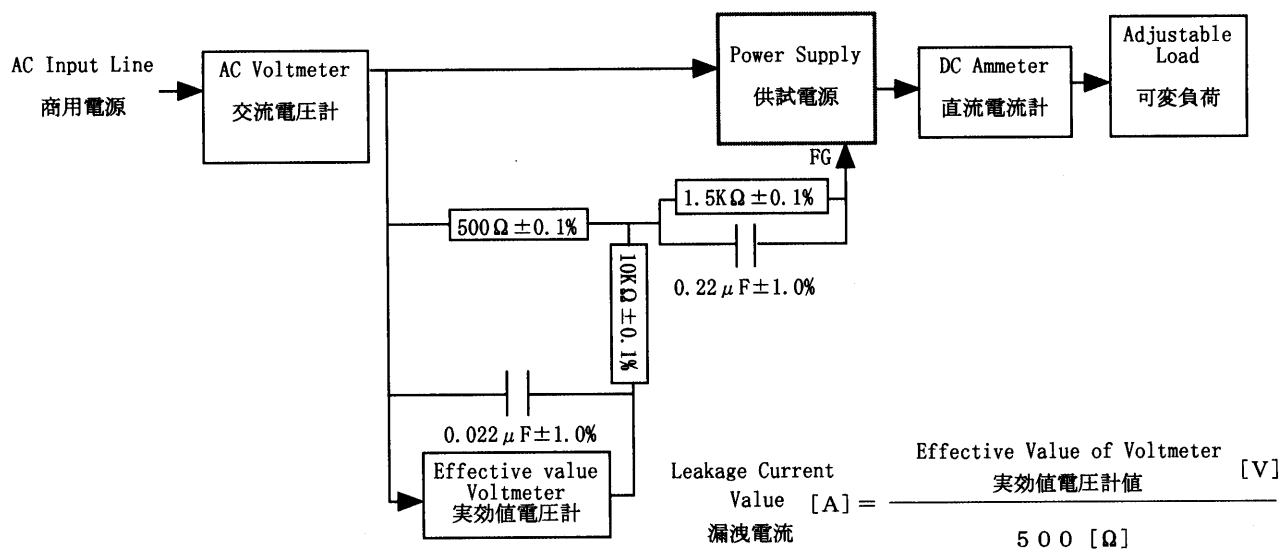


Figure B (IEC 60950)



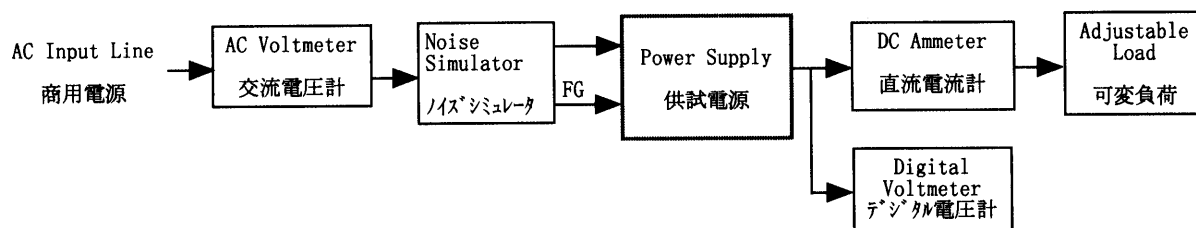


Figure C

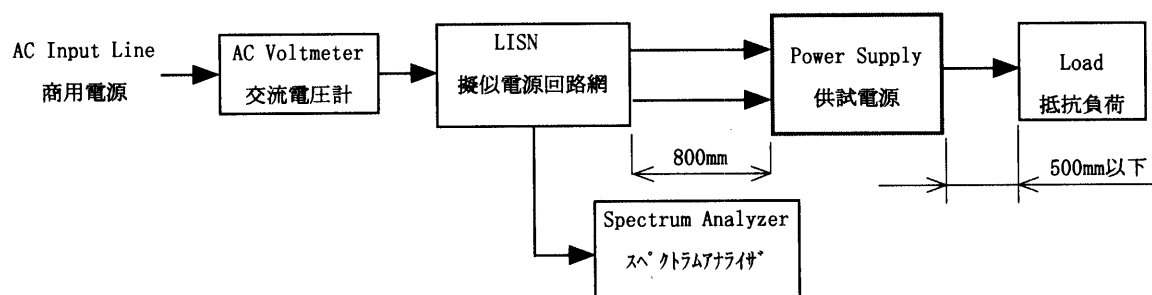


Figure D

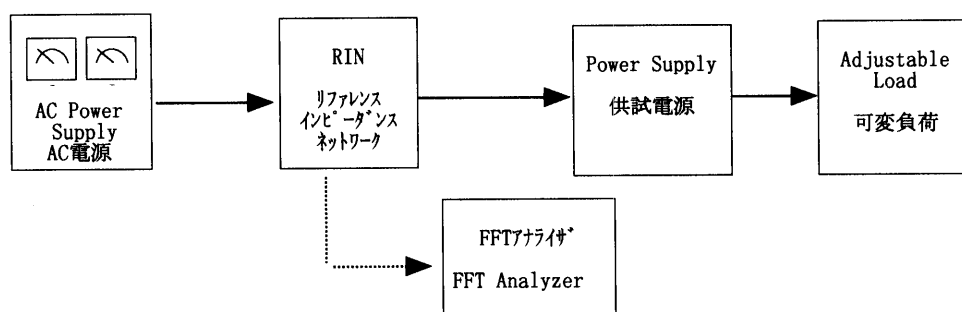


Figure E