参考資料

COSEL

TEST DATA OF RMB15A-2

(100V INPUT)

Regulated DC Power Supply

Sep. 15, 1999

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コーセル株式会社

COSEL CO., LTD.

参考資料

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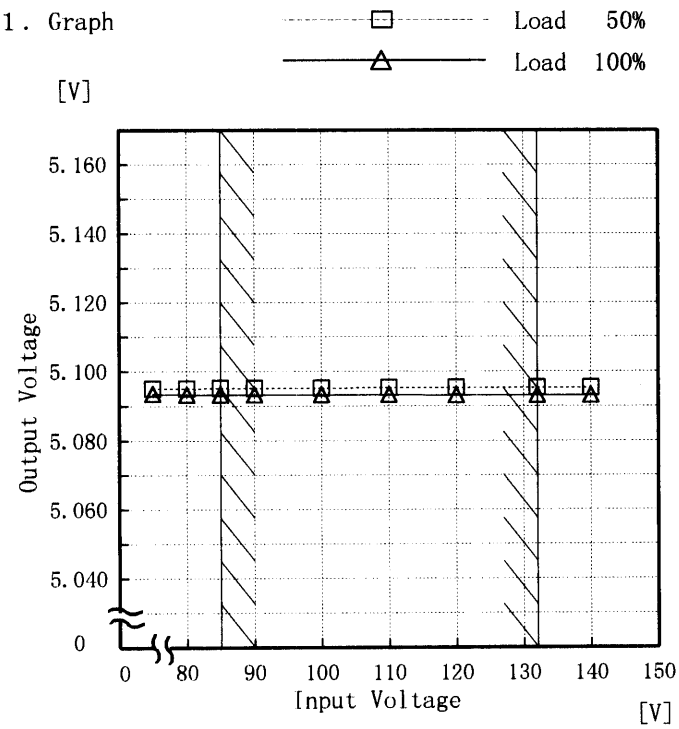
COSEL

Model	RMB15A-2
Item	Line Regulation 静的入力変動

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

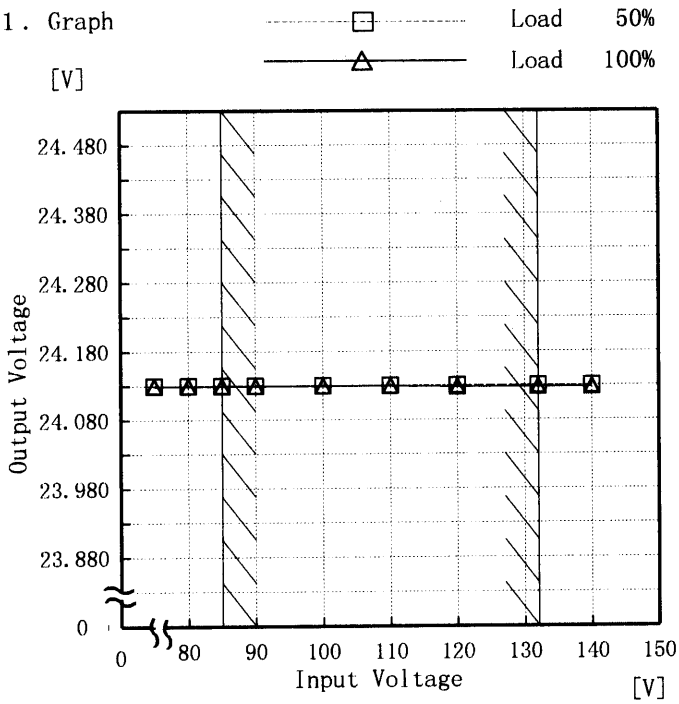


2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	5.095	5.094
80	5.095	5.093
85	5.095	5.093
90	5.095	5.093
100	5.095	5.093
110	5.095	5.093
120	5.095	5.093
132	5.095	5.093
140	5.095	5.093

Object +24.0V0.5A

1. Graph



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]	Output Voltage [V]	
	Load 50%	Load 100%
75	24.130	24.129
80	24.130	24.129
85	24.130	24.129
90	24.130	24.129
100	24.130	24.129
110	24.130	24.129
120	24.130	24.128
132	24.130	24.128
140	24.130	24.128

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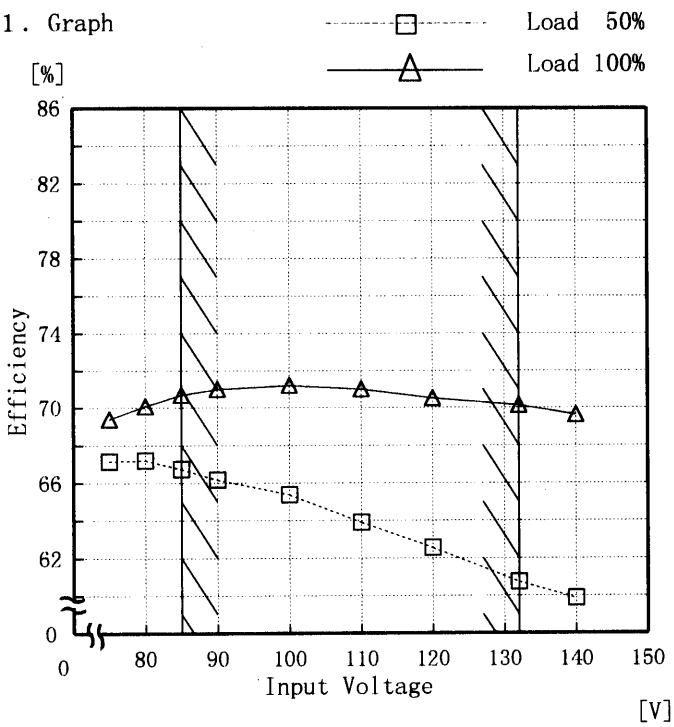
COSEL

Model	RMB15A-2		
Item	Efficiency (by Input Voltage) 効率（入力電圧特性）	Temperature Testing Circuitry	25℃ Figure A
Object	――――――――――		

1. Graph



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

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	67.2	69.4
80	67.2	70.1
85	66.7	70.7
90	66.2	71.0
100	65.4	71.2
110	63.9	71.0
120	62.6	70.5
132	60.7	70.1
140	59.9	69.6

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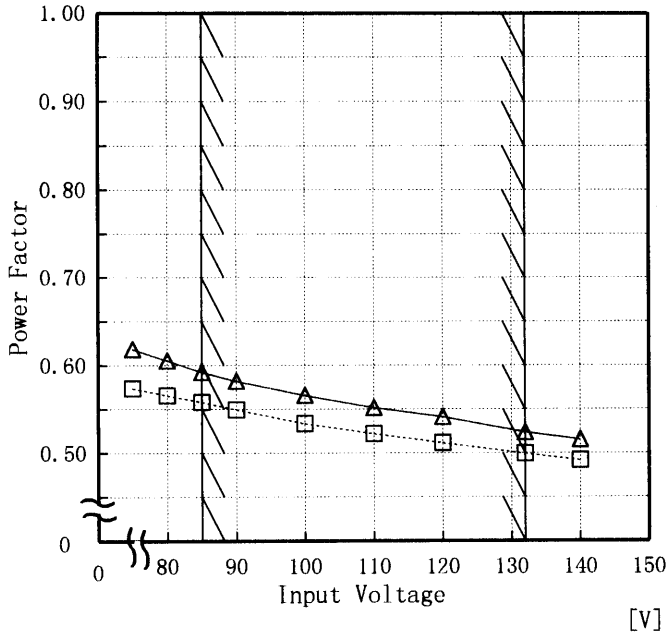
COSEL

Model	RMB15A-2		
Item	Power Factor (by Input Voltage) 力率（入力電圧特性）	Temperature Testing Circuitry	25℃ Figure A
Object	――――――――――		

1. Graph



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]	Power Factor	
	Load 50%	Load 100%
75	0.57	0.62
80	0.57	0.61
85	0.56	0.59
90	0.55	0.58
100	0.53	0.57
110	0.52	0.55
120	0.51	0.54
132	0.50	0.52
140	0.49	0.52

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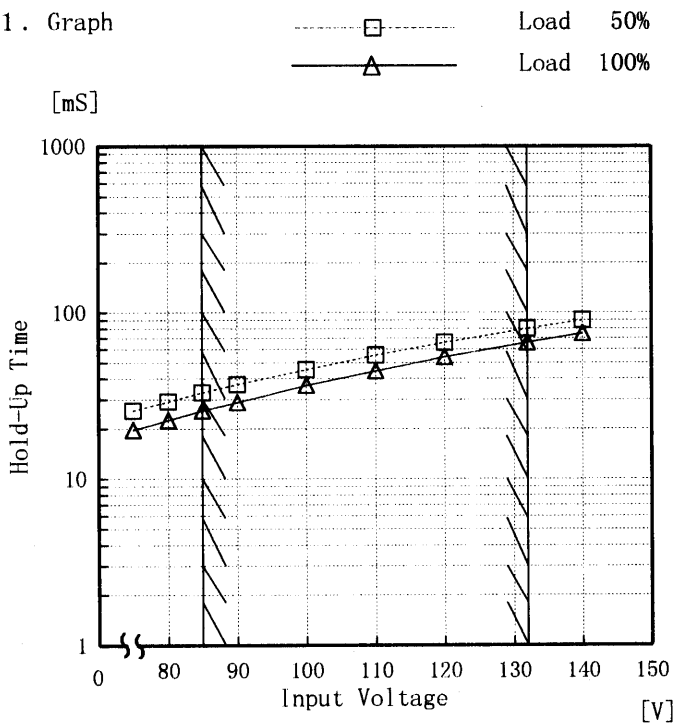
COSEL

Model	RMB15A-2
Item	Hold-Up Time 出力保持時間
Object	+5.0V0.8A

Temperature 25℃
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 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。

2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	26	20
80	29	23
85	33	26
90	37	29
100	46	36
110	55	45
120	66	54
132	80	66
140	90	75

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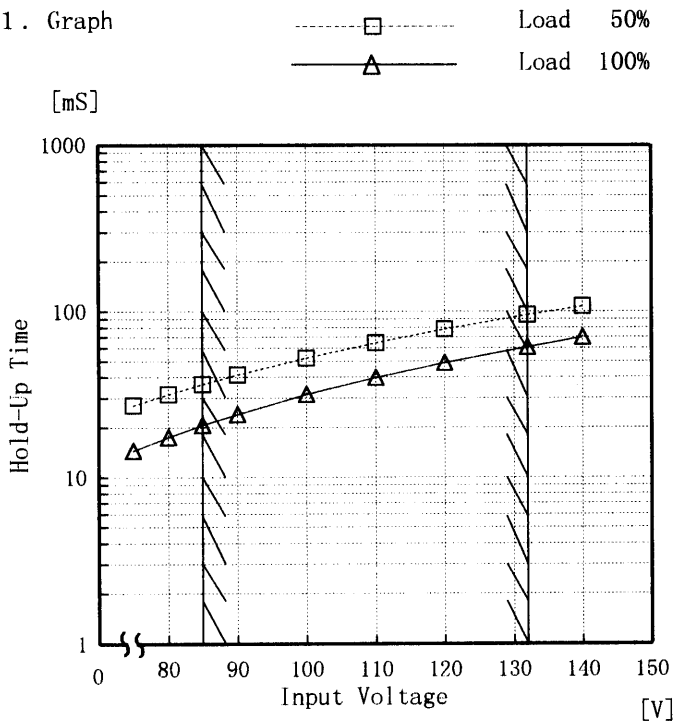
COSEL

Model	RMB15A-2
Item	Hold-Up Time 出力保持時間
Object	+24.0V0.5A

Temperature 25℃
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 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。

2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	27	14
80	31	17
85	36	21
90	41	24
100	52	32
110	65	40
120	78	49
132	96	61
140	108	70

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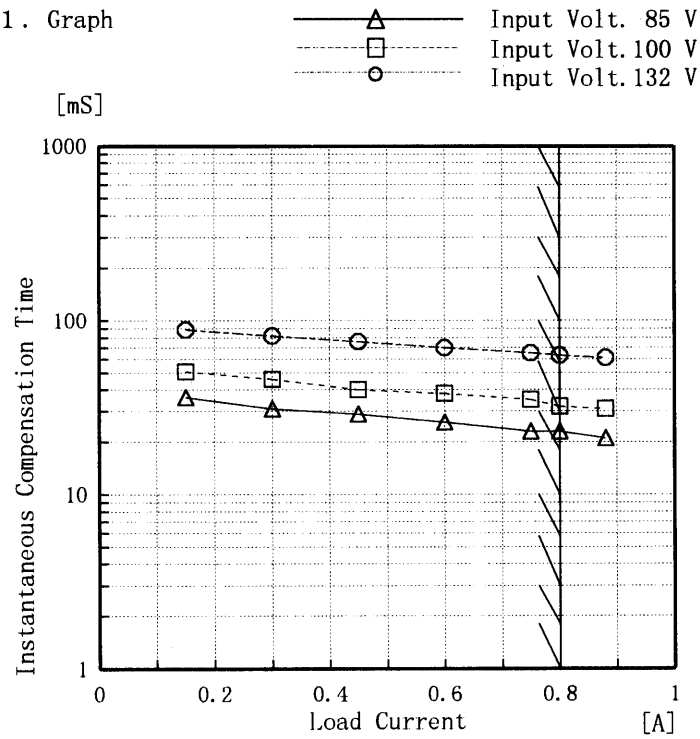
COSEL

Model	RMB15A-2
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+5.0V0.8A

Temperature 25℃
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]	Time [mS] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
0.15	36	51	89
0.30	31	46	82
0.45	29	40	76
0.60	26	38	70
0.75	23	35	65
0.80	23	32	63
0.88	21	31	61
—	—	—	—
—	—	—	—
—	—	—	—

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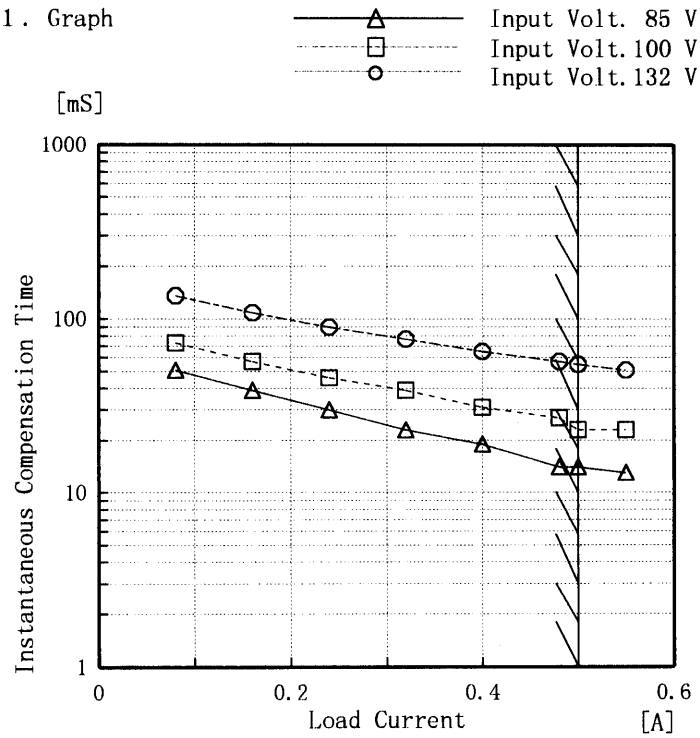
COSEL

Model	RMB15A-2		
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature Testing Circuitry	25℃ Figure A
Object	+24.0V0.5A		

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]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
0.08	51	73	136
0.16	39	57	109
0.24	30	46	90
0.32	23	39	77
0.40	19	31	65
0.48	14	27	57
0.50	14	23	55
0.55	13	23	51
—	—	—	—
—	—	—	—

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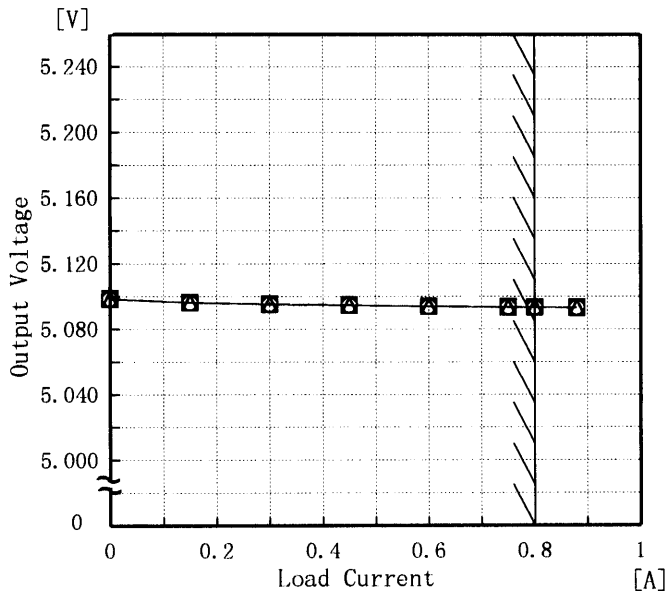
COSEL

Model	RMB15A-2
Item	Load Regulation 静的負荷変動

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

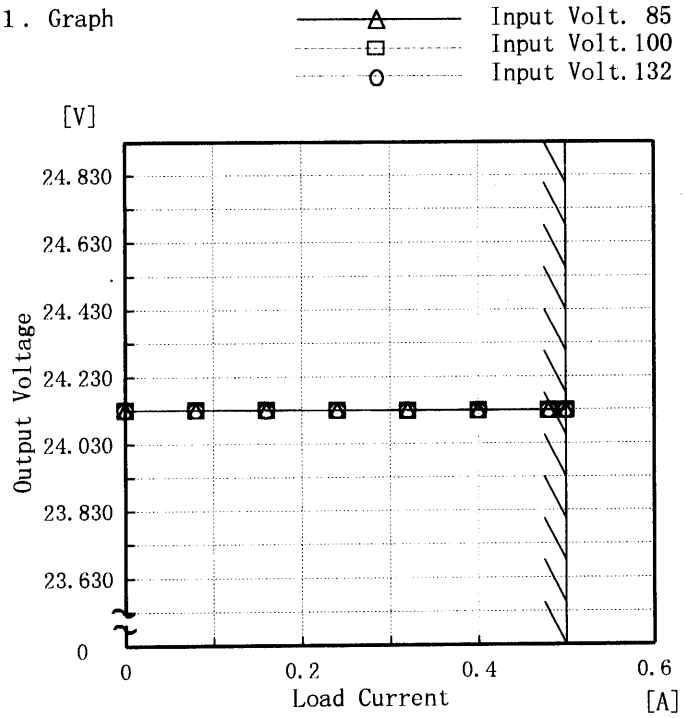


2. Values

Load Current [A]	Output Voltage [V] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	5.099	5.099	5.099
0.15	5.096	5.097	5.097
0.30	5.095	5.096	5.096
0.45	5.095	5.095	5.095
0.60	5.094	5.094	5.094
0.75	5.094	5.094	5.094
0.80	5.094	5.094	5.094
0.88	5.093	5.093	5.094
—	—	—	—
—	—	—	—

Object +24.0V0.5A

1. Graph



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

(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Output Voltage [V] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	24.132	24.132	24.131
0.08	24.132	24.131	24.131
0.16	24.131	24.131	24.130
0.24	24.130	24.130	24.130
0.32	24.130	24.129	24.129
0.40	24.129	24.129	24.129
0.48	24.129	24.129	24.128
0.50	24.129	24.128	24.128
0.55	24.128	24.128	24.128
—	—	—	—

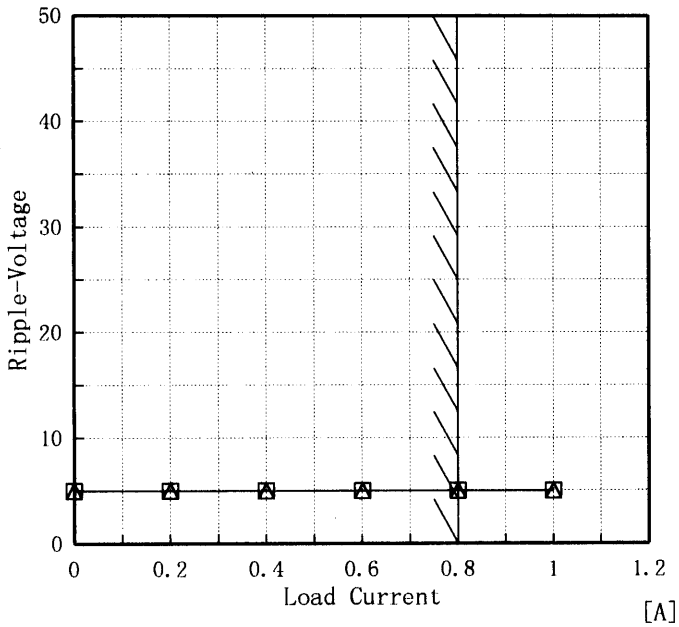
BC-3255

COSEL

Model	RMB15A-2
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)
Object	+5.0V0.8A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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
ｽｲｯﾁﾝｸﾞ周期

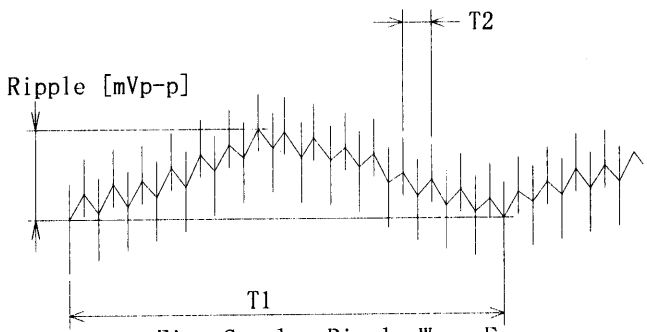


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

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

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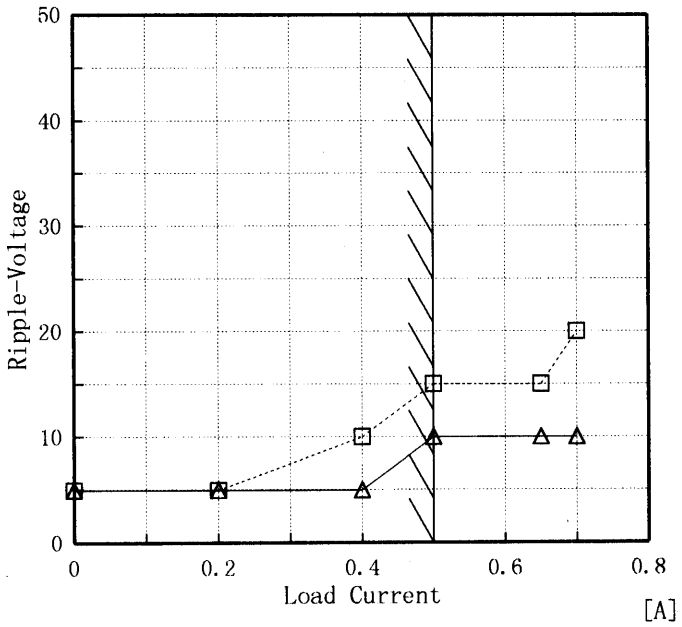
COSEL

Model	RMB15A-2
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)
Object	+24.0V0.5A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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
ｽｲｯﾁﾝｸﾞ周期

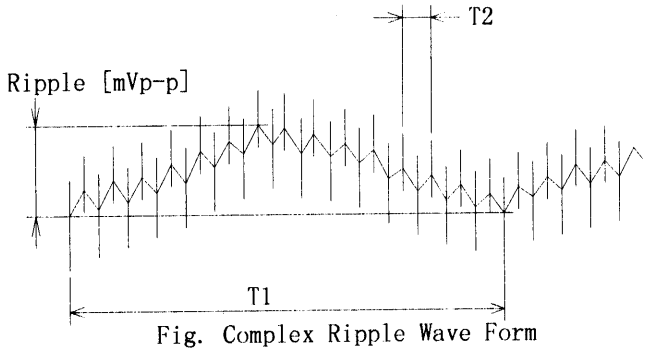


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	5	5
0.2	5	5
0.4	10	5
0.5	15	10
0.65	15	10
0.7	20	10
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

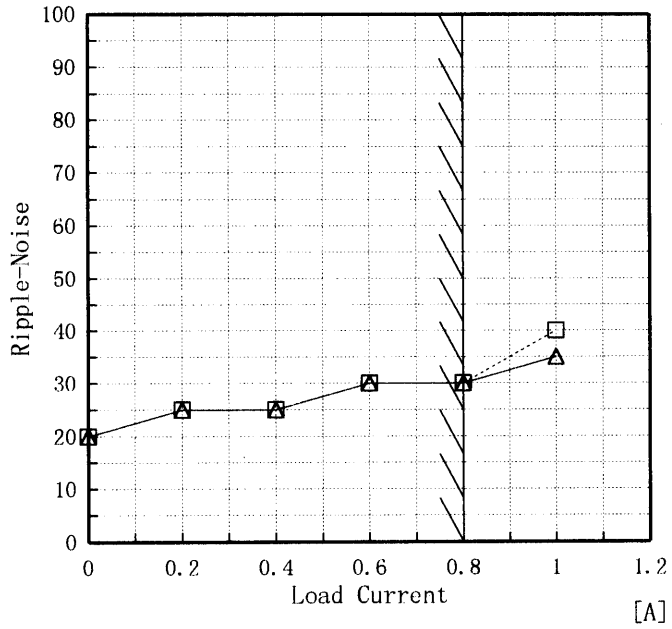
BC-3255

COSEL

Model	RMB15A-2
Item	Ripple-Noise リップルノイズ
Object	+5.0V0.8A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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
ｽｲｯﾁﾝｸﾞ周期

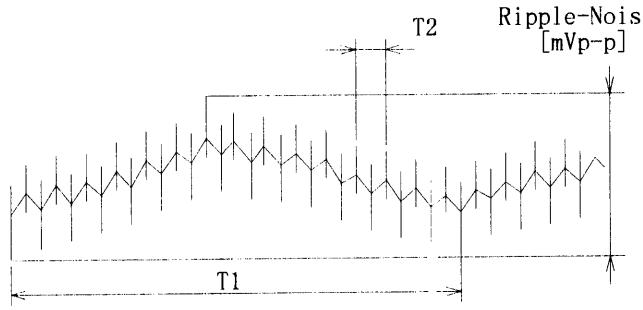


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	20	20
0.2	25	25
0.4	25	25
0.6	30	30
0.8	30	30
1.0	40	35
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

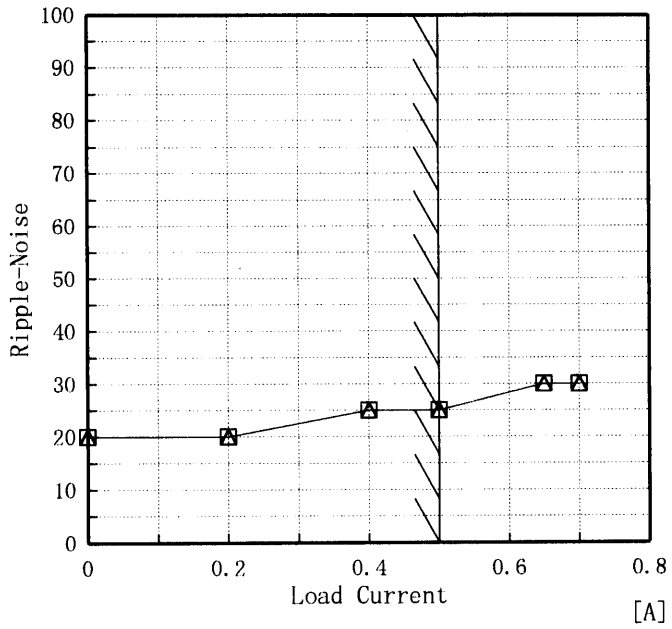
BC-3255

COSEL

Model	RMB15A-2
Item	Ripple-Noise リップルノイズ
Object	+24.0V0.5A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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
ｽｲｯﾁﾝｸﾞ周期

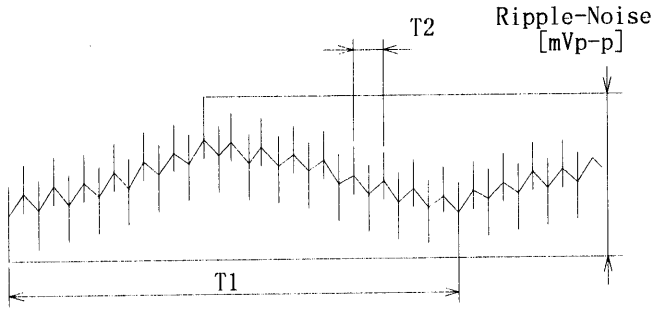


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	20	20
0.2	20	20
0.4	25	25
0.5	25	25
0.65	30	30
0.7	30	30
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

BC-3255

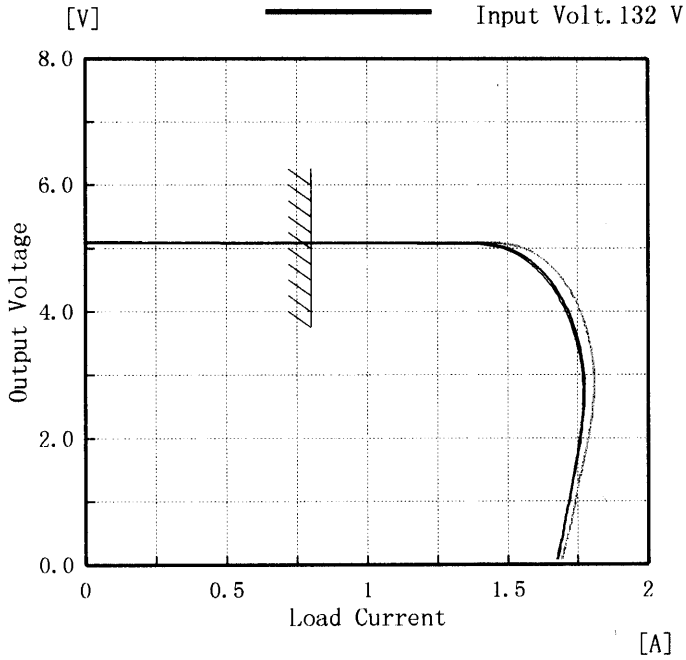
COSEL

Model	RMB15A-2
Item	Overcurrent Protection 過電流保護

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

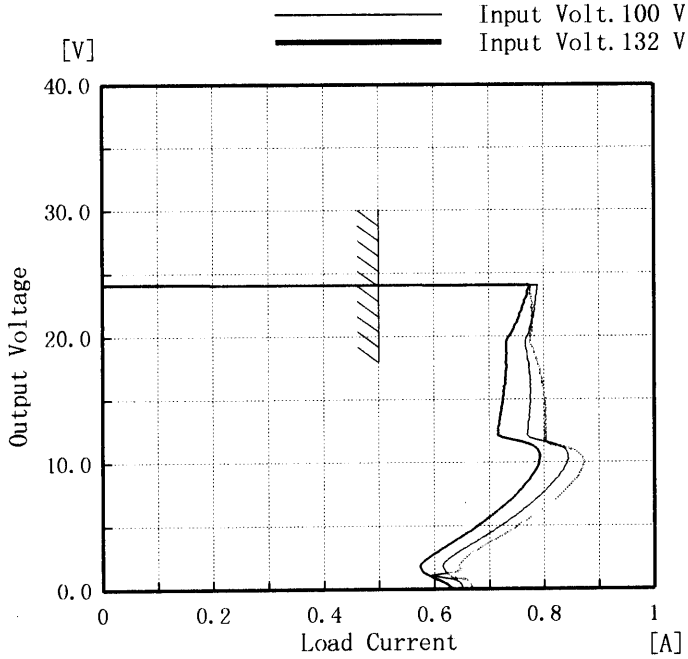


2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
5.00	1.585	1.515	1.529
4.75	1.652	1.589	1.601
4.50	1.701	1.646	1.658
4.00	1.760	1.706	1.716
3.50	1.793	1.746	1.754
3.00	1.808	1.767	1.771
2.50	1.805	1.768	1.772
2.00	1.786	1.753	1.757
1.50	1.764	1.736	1.738
1.00	1.738	1.714	1.716
0.50	1.714	1.693	1.696
0.00	1.693	1.672	1.675

Object +24.0V0.5A

1. Graph



Note: Slanted line shows the range of the rated load current.
(注)斜線は定格負荷電流範囲を示す。

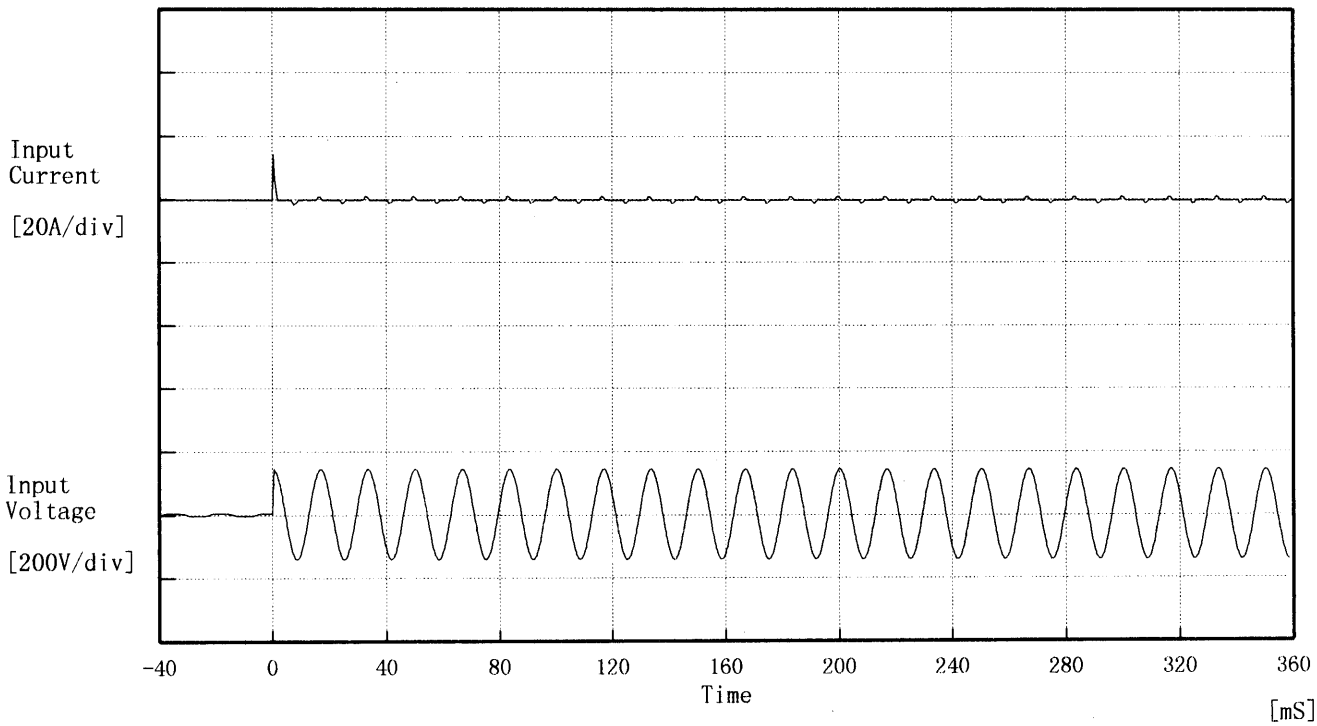
2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
24.00	0.774	0.787	0.773
22.80	0.777	0.785	0.764
21.60	0.779	0.779	0.753
19.20	0.778	0.766	0.731
16.80	0.795	0.774	0.729
14.40	0.803	0.774	0.722
12.00	0.802	0.773	0.726
9.60	0.869	0.836	0.786
7.20	0.820	0.784	0.739
4.80	0.745	0.712	0.671
2.40	0.652	0.624	0.584
0.00	0.654	0.640	0.621

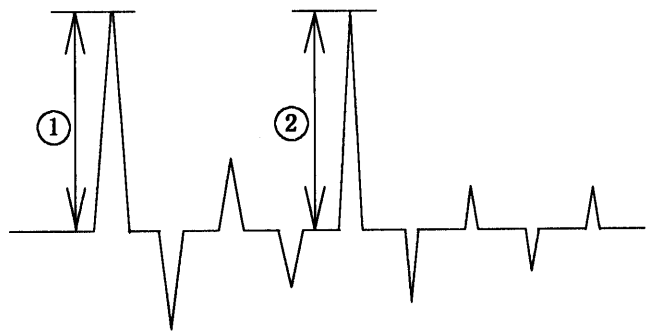
BC-3255

COSEL

Model	RMB15A-2		
Item	Inrush Current 突入電流	Temperature Testing Circuitry	25℃ Figure A
Object	――――――――		



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



BC-3255

COSEL

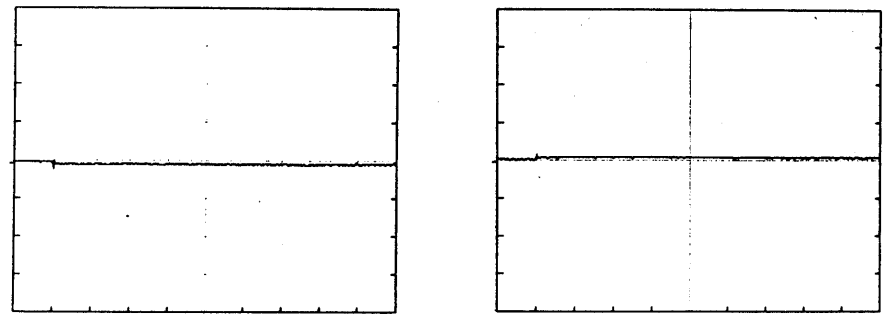
Model	RMB15A-2		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+5.0V0.8A		

Input Volt. 100 V

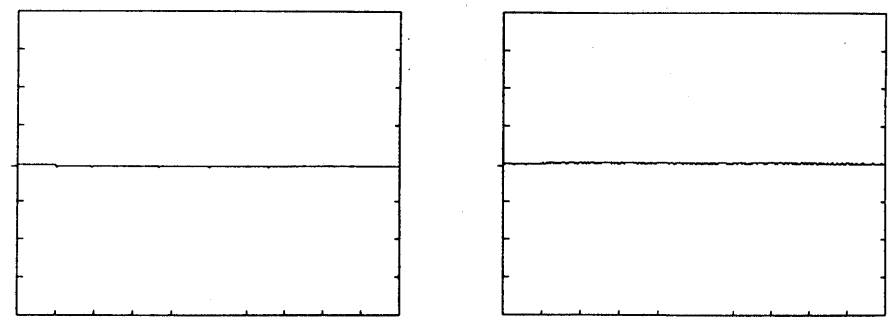
Cycle 1000 mS

Load Current

Load 0% ←→
Load 100 %



Load 0% ←→
Load 50 %



100 mV/div

10 mS/div

COSEL

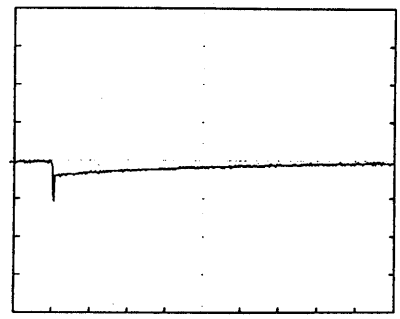
Model	RMB15A-2		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+24.0V0.5A		

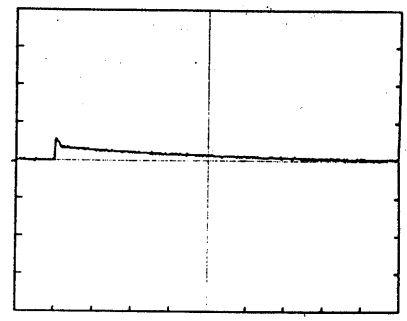
Input Volt. 100 V

Cycle 1000 mS

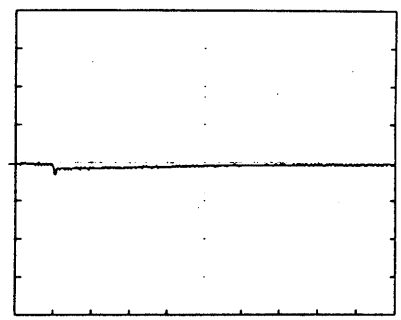
Load Current

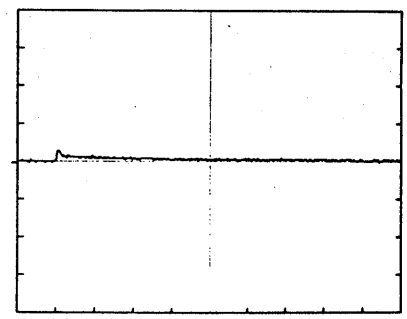
Load 0% ←→
Load 100 %





Load 0% ←→
Load 50 %





100 mV/div

10 mS/div

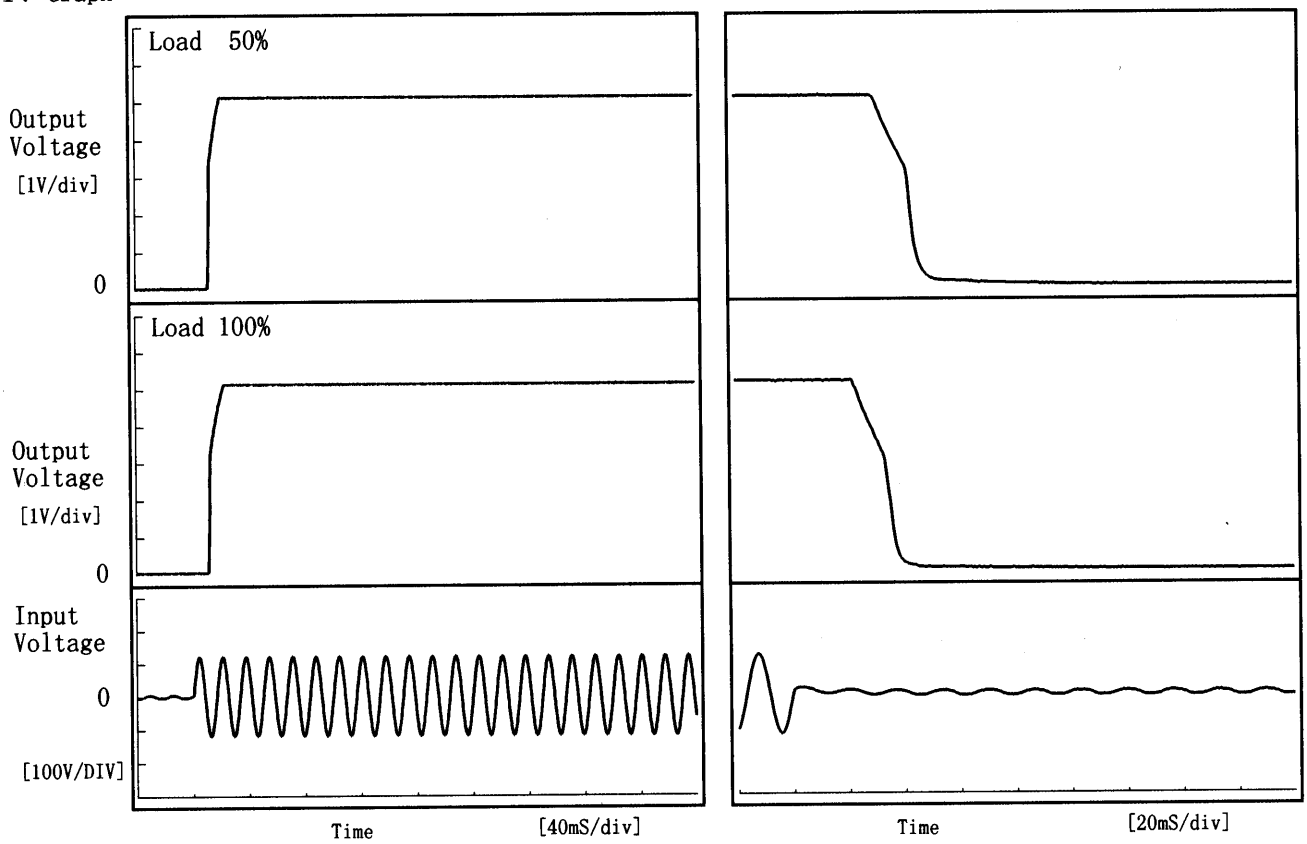
BC-3255

COSEL

Model	RMB15A-2		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+5.0V0.8A		

1. Graph

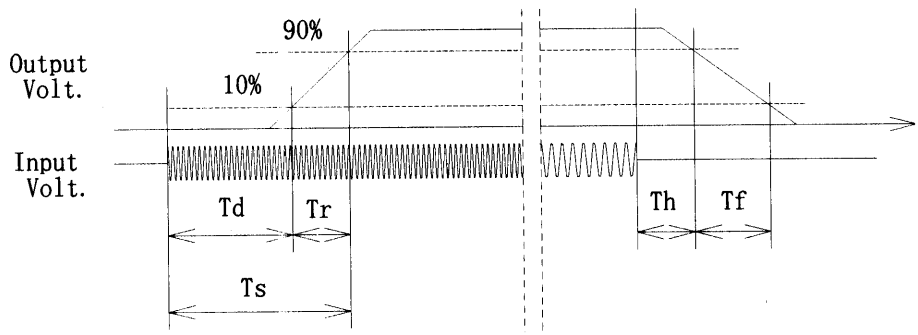
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	11.6	5.6	17.2	32.5	14.5
100 %	11.4	7.0	18.4	24.5	14.0



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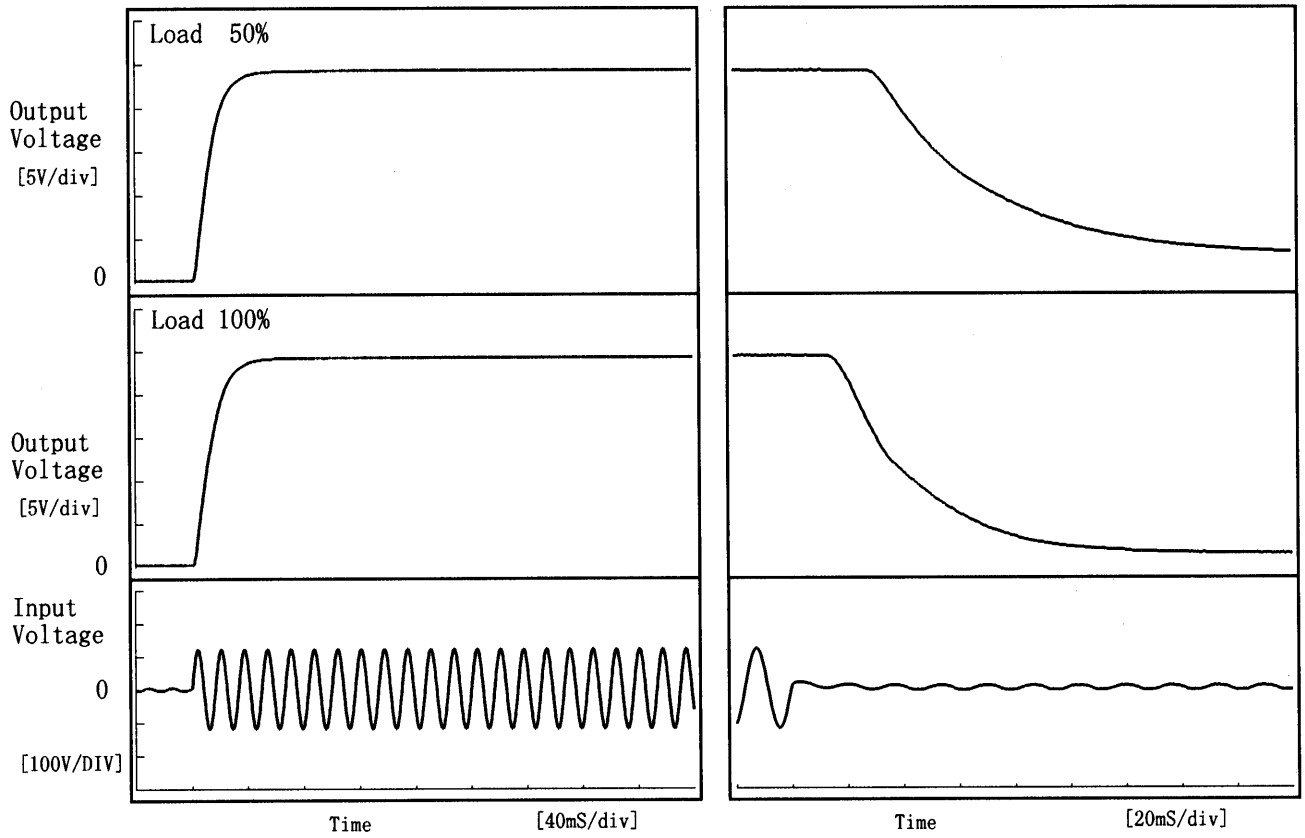
COSEL

Model	RMB15A-2		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+24.0V0.5A		

1. Graph

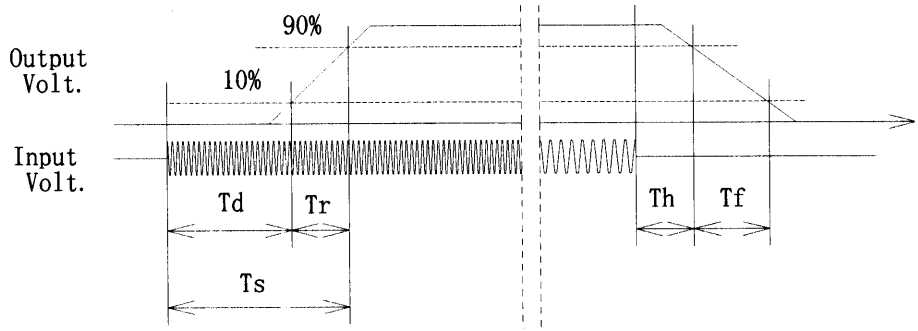
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.6	22.4	26.0	35.5	130.0
100 %	3.6	23.8	27.4	20.0	61.0



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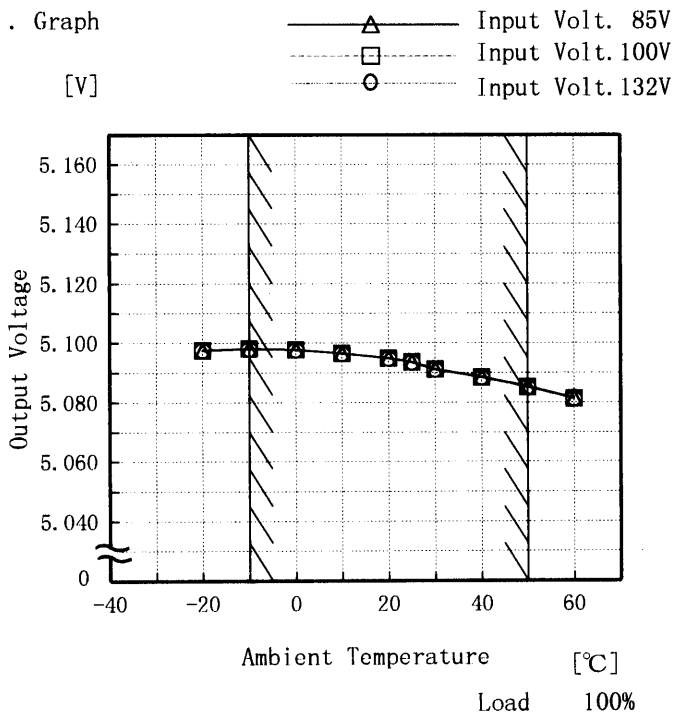
COSEL

Model	RMB15A-2
Item	Ambient Temperature Drift 周囲温度変動

Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

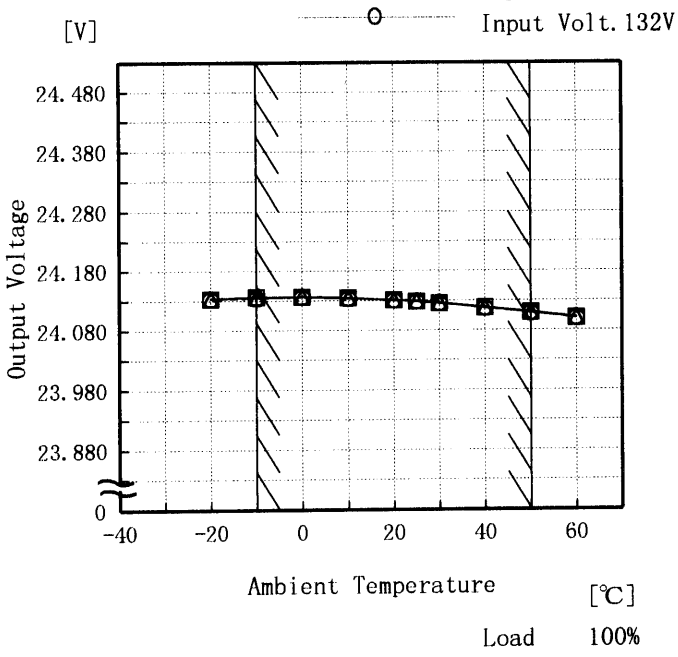


2. Values

Ambient Temperature [℃]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	5.097	5.098	5.098
-10	5.098	5.098	5.098
0	5.098	5.098	5.098
10	5.097	5.097	5.097
20	5.095	5.095	5.095
25	5.094	5.094	5.094
30	5.091	5.091	5.091
40	5.089	5.088	5.088
50	5.085	5.085	5.085
60	5.082	5.081	5.081
—	—	—	—

Object +24.0V0.5A

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 Temperature [℃]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	24.134	24.133	24.133
-10	24.136	24.136	24.135
0	24.137	24.136	24.136
10	24.135	24.135	24.134
20	24.131	24.131	24.131
25	24.129	24.128	24.128
30	24.126	24.125	24.125
40	24.118	24.118	24.117
50	24.110	24.110	24.109
60	24.101	24.100	24.100
—	—	—	—

BC-3255

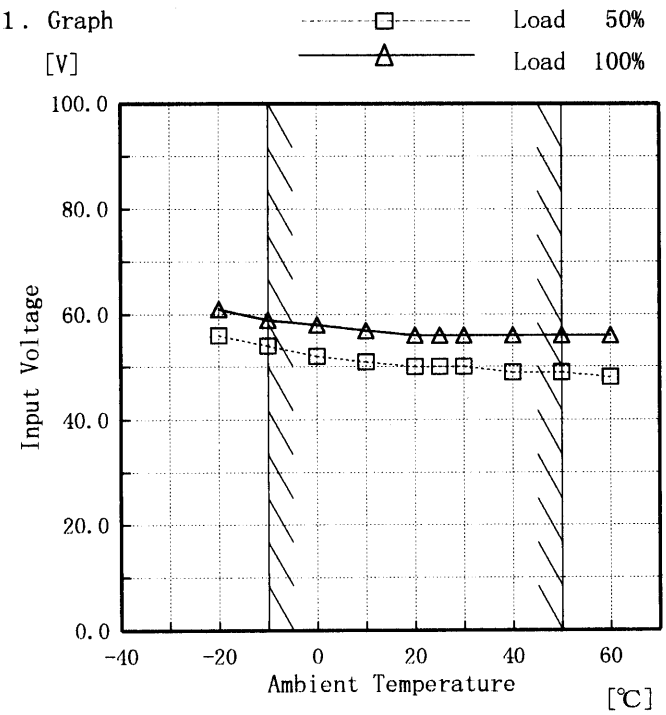
COSEL

Model	RMB15A-2
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧

Testing Circuitry Figure A

Object +5.0V0.8A

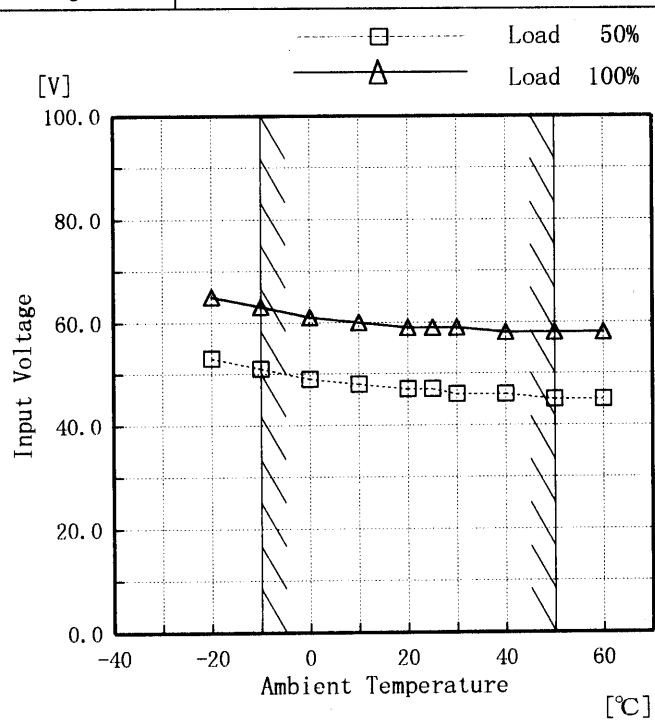
1. Graph



2. Values

Ambient Temperature [℃]	Input Voltage [V]	
	Load 50%	Load 100%
-20	56	61
-10	54	59
0	52	58
10	51	57
20	50	56
25	50	56
30	50	56
40	49	56
50	49	56
60	48	56
—	—	—

Object +24.0V0.5A



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 Temperature [℃]	Input Voltage [V]	
	Load 50%	Load 100%
-20	53	65
-10	51	63
0	49	61
10	48	60
20	47	59
25	47	59
30	46	59
40	46	58
50	45	58
60	45	58
—	—	—

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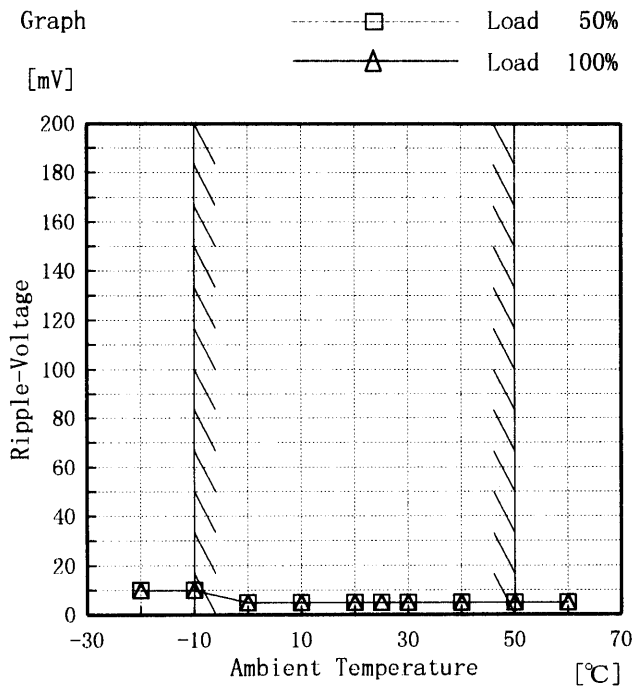
COSEL

Model	RMB15A-2
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）

Testing Circuitry　Figure A

Object	+5.0V0.8A

1. Graph



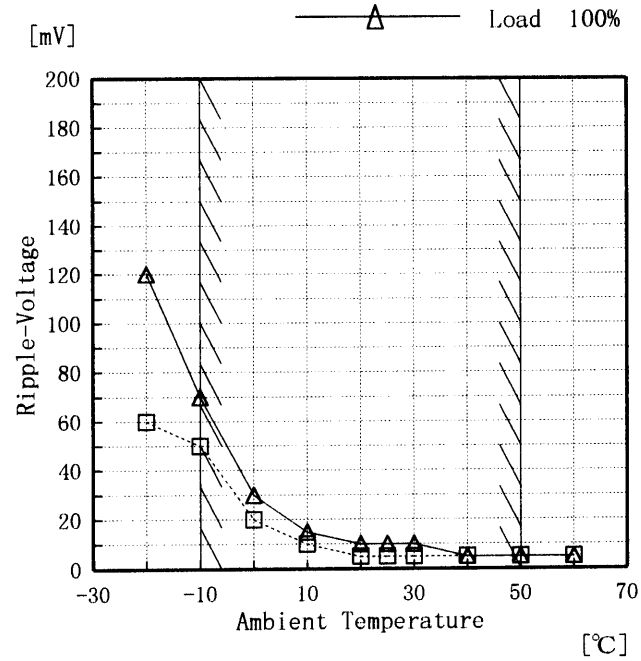
Input Volt.　100 V

2. Values

Ambient Temperature [℃]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	10	10
-10	10	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
—	—	—

Object	+24.0V0.5A

1. Graph



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 Temperature [℃]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	60	120
-10	50	70
0	20	30
10	10	15
20	5	10
25	5	10
30	5	10
40	5	5
50	5	5
60	5	5
—	—	—

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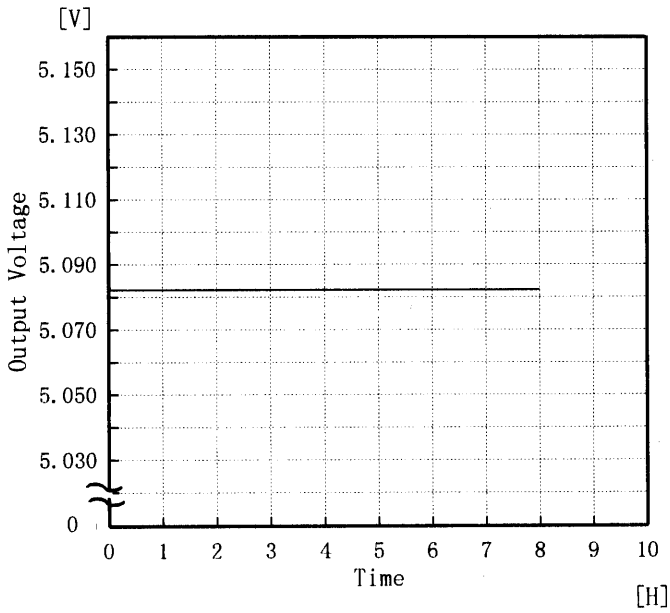
COSEL

Model	RMB15A-2
Item	Time Lapse Drift 経時ドリフト

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph



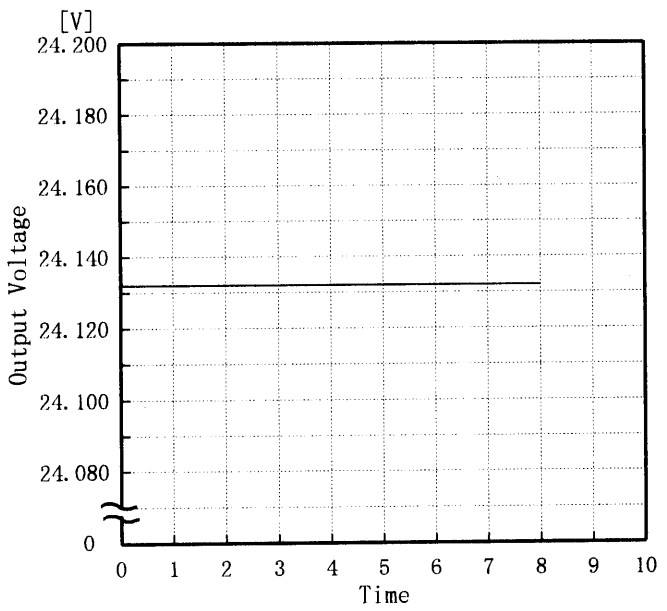
Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	5.084
0.5	5.082
1.0	5.082
2.0	5.082
3.0	5.082
4.0	5.082
5.0	5.082
6.0	5.082
7.0	5.082
8.0	5.082

Object +24.0V0.5A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	24.136
0.5	24.132
1.0	24.132
2.0	24.132
3.0	24.132
4.0	24.132
5.0	24.132
6.0	24.132
7.0	24.132
8.0	24.132

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COSEL

Model	RMB15A-2	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A

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 ℃

Input Voltage : 85～132 V

Load Current (AVR 1) : 0～0.8 A

(AVR 2) : 0～0.5 A

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

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

定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、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 ℃

入力電圧 85～132 V

負荷電流 (AVR 1) 0～0.8 A

(AVR 2) 0～0.5 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 +5.0V0.8A

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration)[%]
Maximum Voltage	-10	85	0.0	5.101	±8	±0.2
Minimum Voltage	50	132	0.8	5.085		

Object +24.0V0.5A

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration)[%]
Maximum Voltage	-10	85	0.0	24.140	±15	±0.1
Minimum Voltage	50	85	0.5	24.111		

COSEL

Model	RMB15A-2
Item	Condensation 結露特性

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

Object	+5.0V0.8A

Item	Data	Testing Conditions
Output Voltage [V]	5.095	Input Volt.: 100V, Load Current:0.8A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:0.8A
Load Regulation [mV]	7	Input Volt.: 100V, Load Current:0～0.8A

Object	+24.0V0.5A

Item	Data	Testing Conditions
Output Voltage [V]	24.128	Input Volt.: 100V, Load Current:0.5A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:0.5A
Load Regulation [mV]	2	Input Volt.: 100V, Load Current:0～0.5A

COSEL

Model	RMB15A-2		
Item	Leakage Current 漏洩電流	Temperature Testing Circuitry	25℃ Figure B
Object	――――――		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.09	0.11	0.14
(B) IEC60950	0.09	0.11	0.14

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。

COSEL

Model	RMB15A-2
Item	Conducted Emission 雑音端子電圧
Object	――――――――

Testing Circuitry　　Figure D

1. Graph

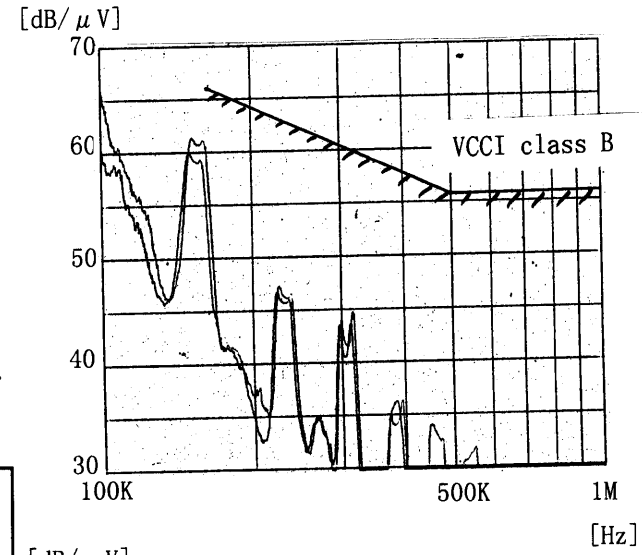
Remarks

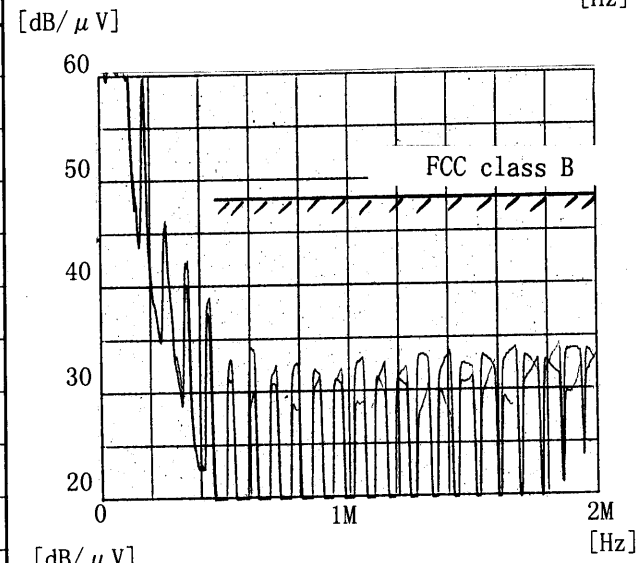
Input Volt.　　120 V(VCCI:100V)

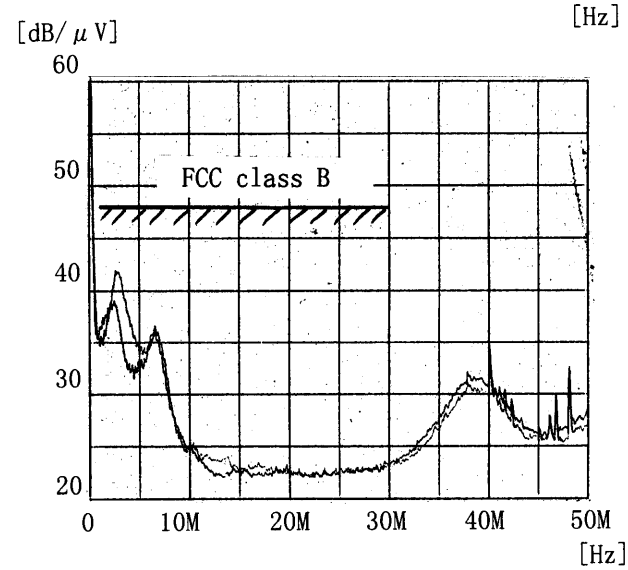
Load　　100 %

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







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COSEL

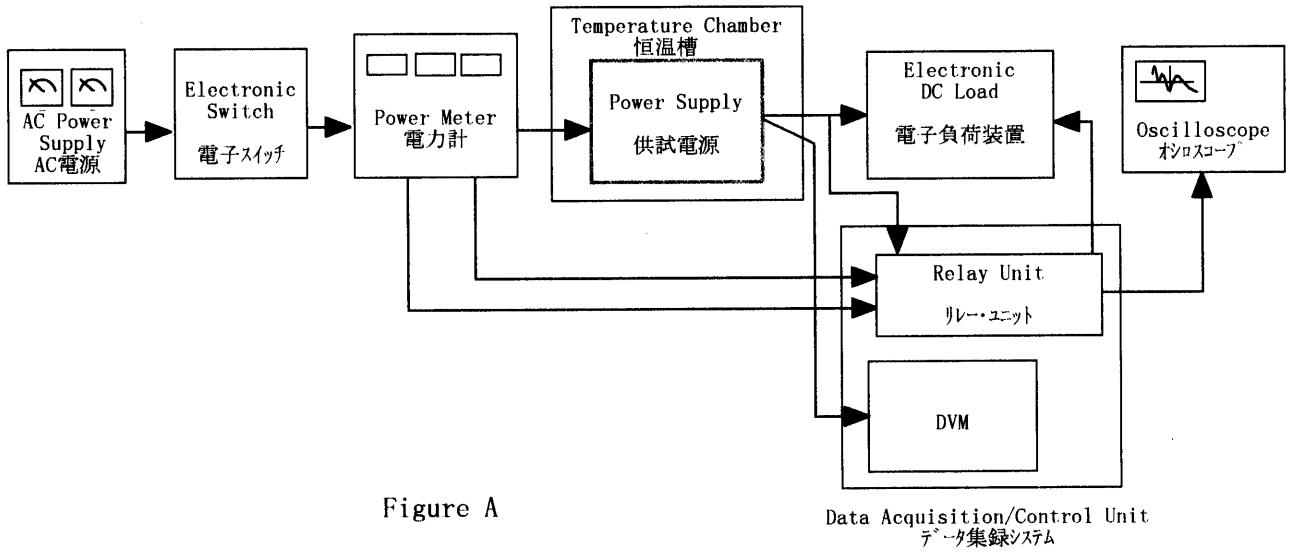

Figure A

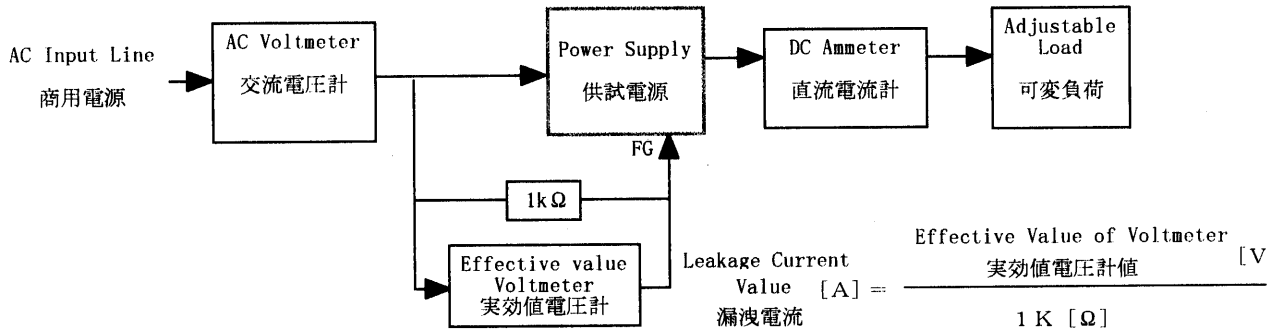

Figure B(DENTORI)

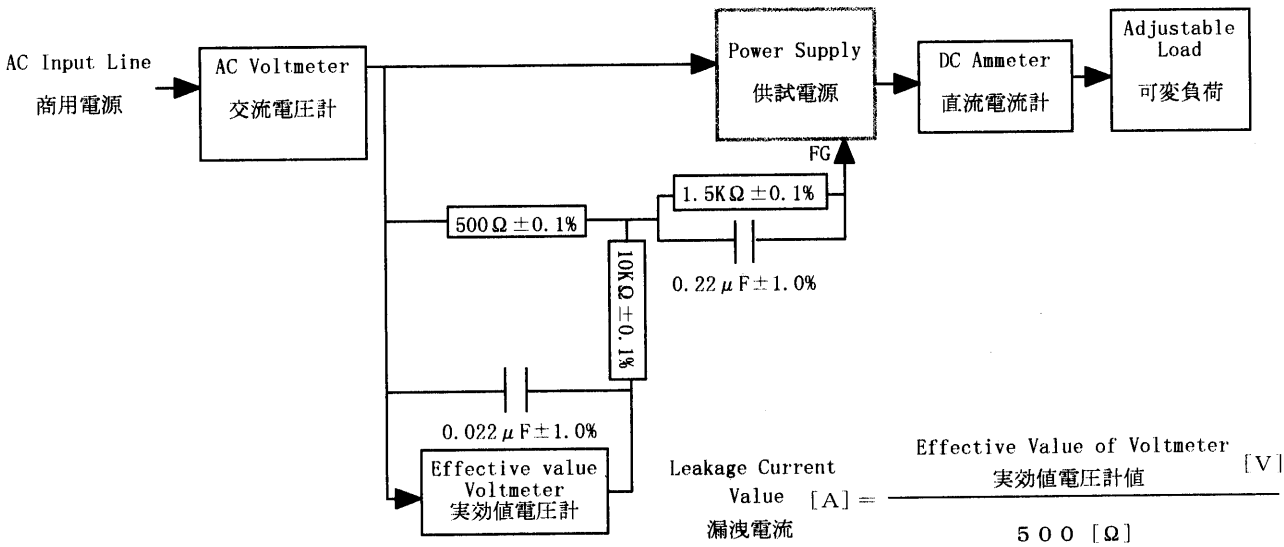

Figure B (IEC60950)

COSEL

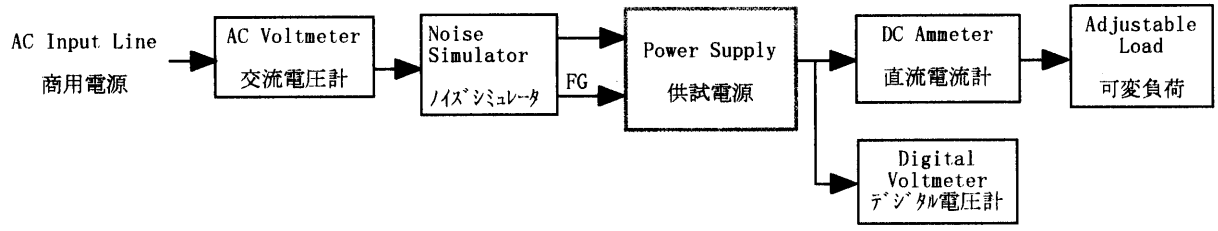

Figure C

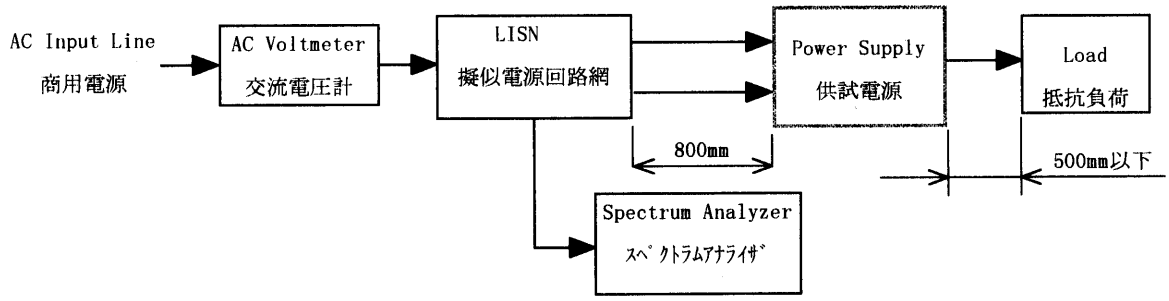

Figure D

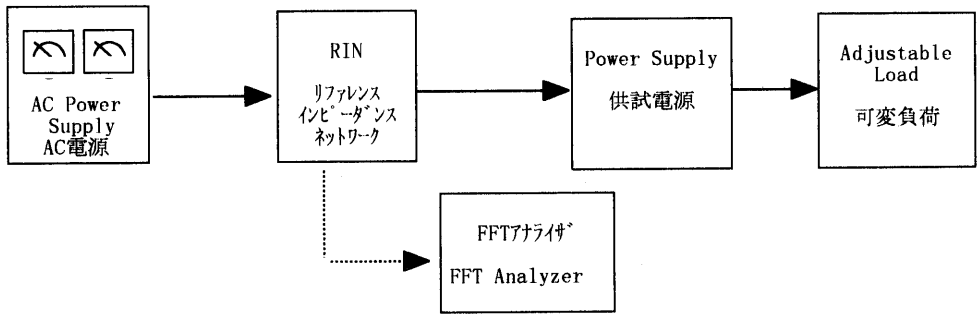

Figure E