参考資料

COSEL

TEST DATA OF RMB15A-1

(100V INPUT)

Regulated DC Power Supply

Sep. 16, 1999

Approved by : Hoshiji Takashima
Design Manager

Prepared by : Yuichi Takahashi
Design Engineer

コーセル株式会社

COSEL CO., LTD.

参考資料

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参考資料

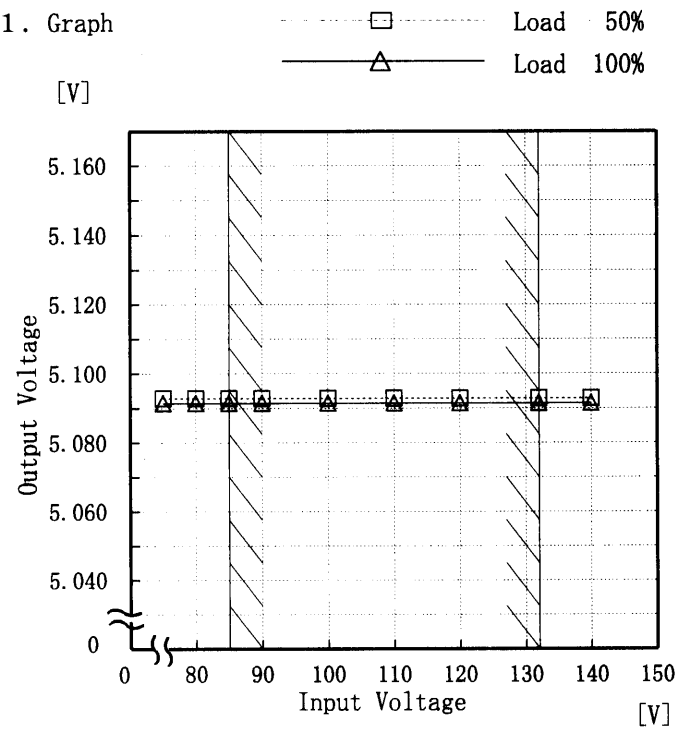
COSEL

Model	RMB15A-1
Item	Line Regulation 静的入力変動

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

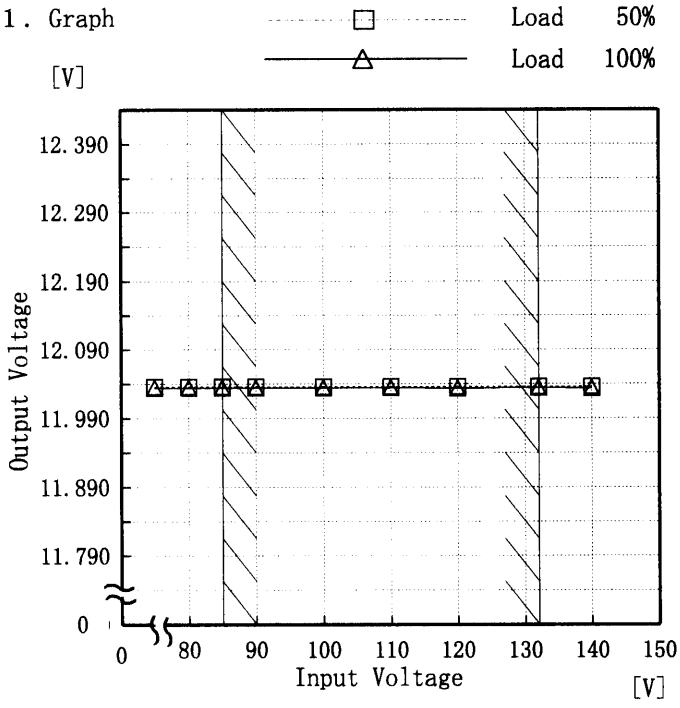


2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	5.093	5.092
80	5.093	5.092
85	5.093	5.092
90	5.093	5.092
100	5.093	5.092
110	5.093	5.092
120	5.093	5.092
132	5.093	5.092
140	5.093	5.092

Object +12.0V1A

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	12.036	12.035
80	12.036	12.035
85	12.036	12.035
90	12.036	12.035
100	12.036	12.035
110	12.036	12.035
120	12.036	12.034
132	12.036	12.035
140	12.036	12.034

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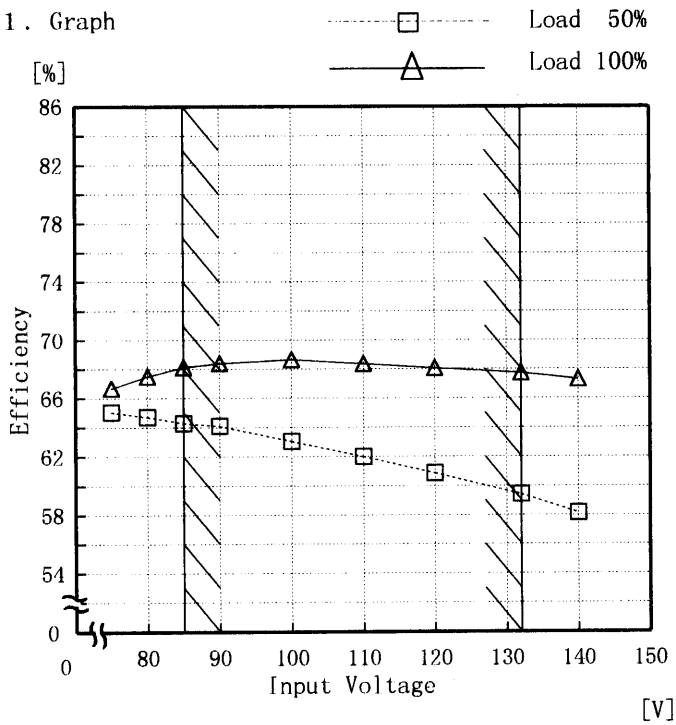
COSEL

Model	RMB15A-1
Item	Efficiency (by Input Voltage) 効率（入力電圧特性）
Object	――――――――――――

Temperature 25℃
Testing Circuitry Figure A

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	65.0	66.7
80	64.7	67.5
85	64.3	68.1
90	64.1	68.4
100	63.1	68.7
110	62.0	68.4
120	60.9	68.1
132	59.4	67.7
140	58.1	67.3

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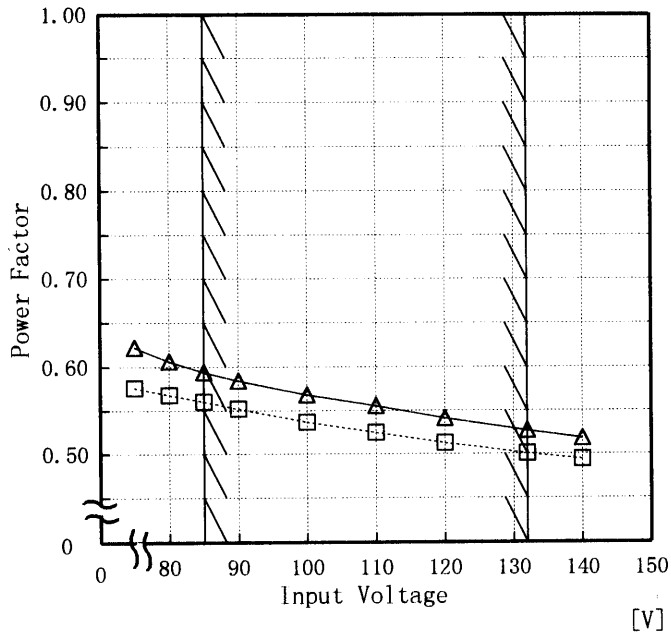
COSEL

Model	RMB15A-1
Item	Power Factor (by Input Voltage) 力率（入力電圧特性）
Object	――――――――――――――

Temperature 25℃
Testing Circuitry Figure A

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	0.58	0.62
80	0.57	0.61
85	0.56	0.59
90	0.55	0.58
100	0.54	0.57
110	0.52	0.56
120	0.51	0.54
132	0.50	0.53
140	0.49	0.52

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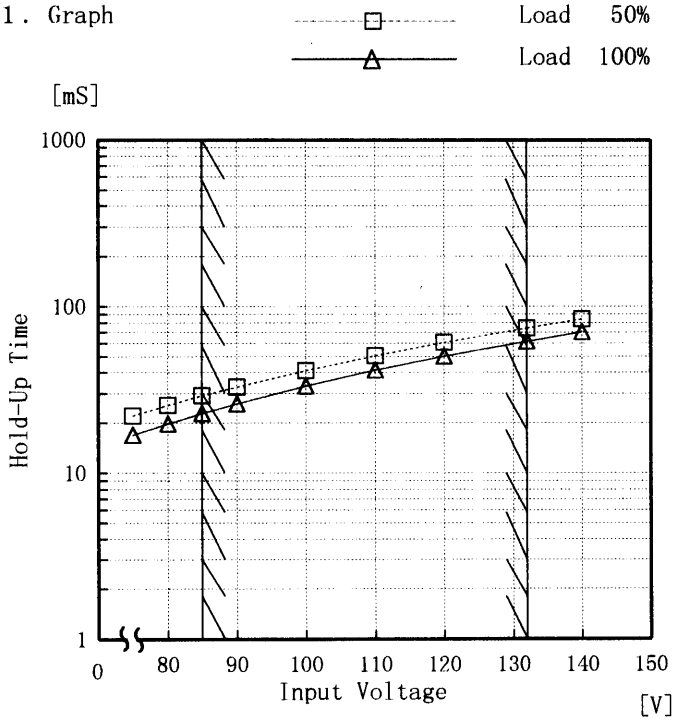
Model	RMB15A-1
Item	Hold-Up Time 出力保持時間
Object	+5.0V0.8A

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	22	17
80	26	20
85	29	23
90	33	26
100	41	33
110	51	41
120	61	50
132	74	62
140	84	70

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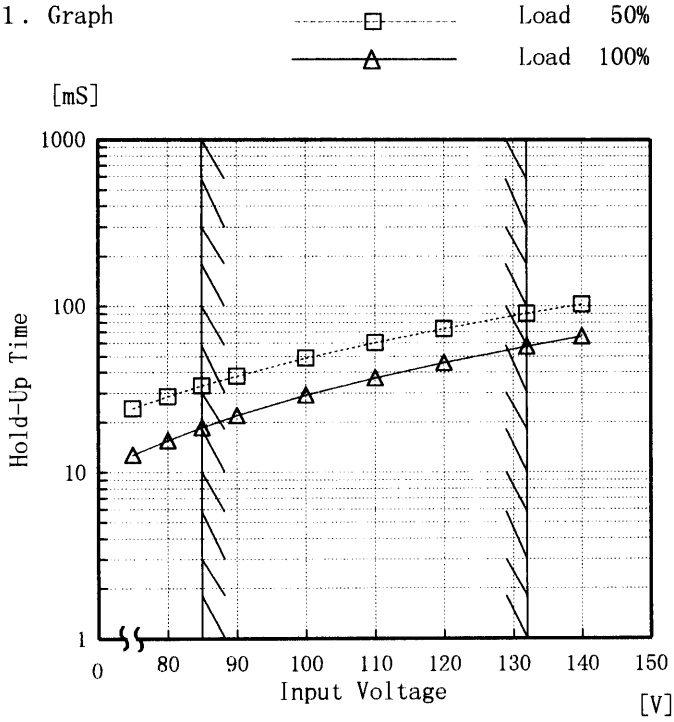
Model	RMB15A-1
Item	Hold-Up Time 出力保持時間
Object	+12.0V1A

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	24	13
80	29	16
85	33	19
90	38	22
100	49	29
110	61	37
120	74	46
132	90	57
140	103	66

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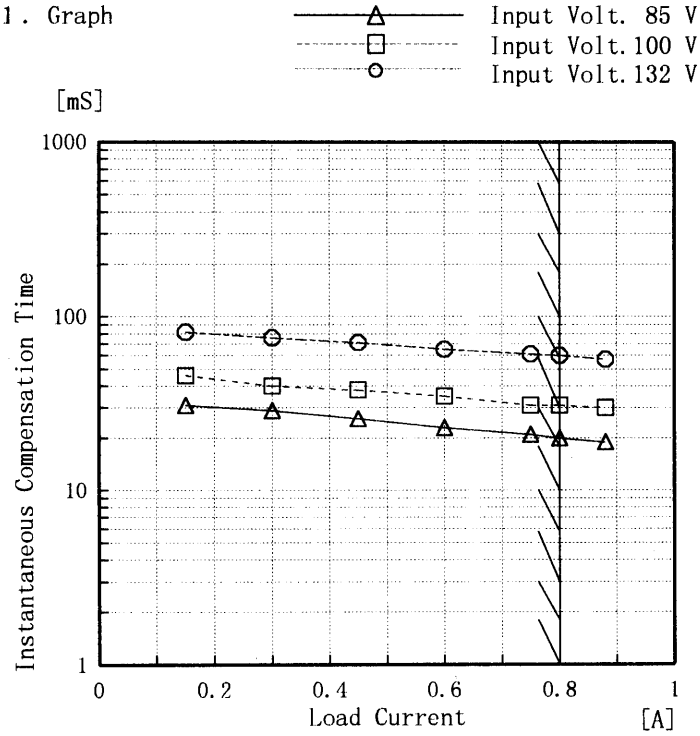
COSEL

Model	RMB15A-1
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	31	46	82
0.30	29	40	76
0.45	26	38	71
0.60	23	35	65
0.75	21	31	61
0.80	20	31	60
0.88	19	30	57
—	—	—	—
—	—	—	—
—	—	—	—

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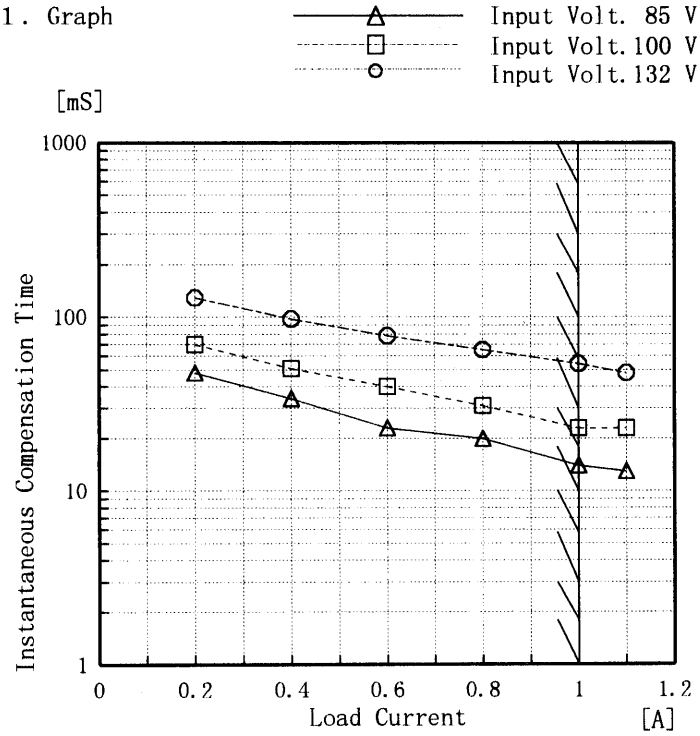
COSEL

Model	RMB15A-1
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+12.0V1A

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]
0.0	—	—	—
0.2	48	70	129
0.4	34	51	98
0.6	23	40	78
0.8	20	31	65
1.0	14	23	54
1.1	13	23	48
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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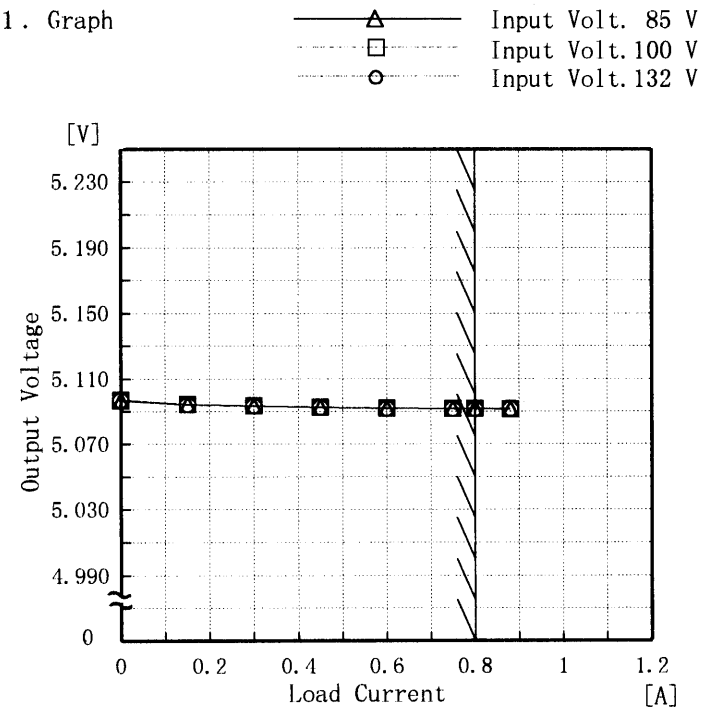
COSEL

Model	RMB15A-1
Item	Load Regulation 静的負荷変動

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

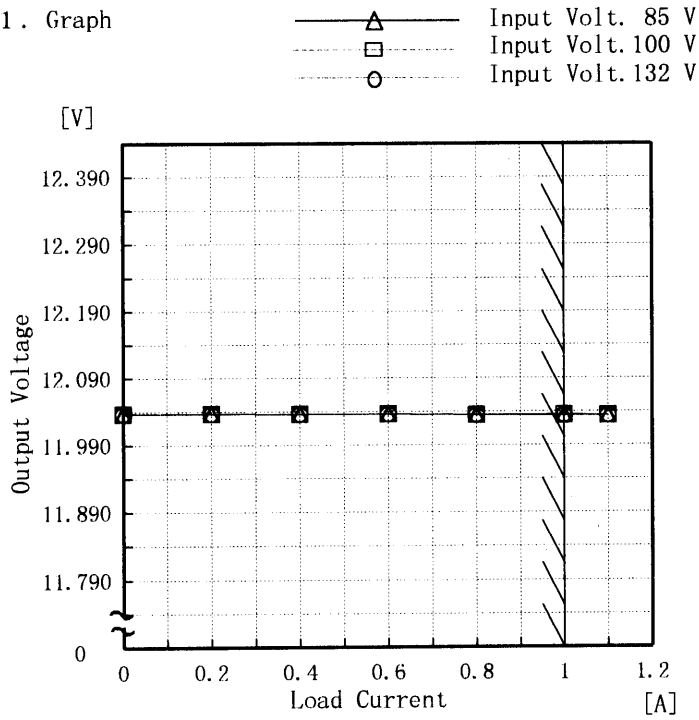


2. Values

Load Current [A]	Output Voltage [V] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	5.097	5.097	5.097
0.15	5.094	5.094	5.094
0.30	5.093	5.093	5.093
0.45	5.093	5.093	5.093
0.60	5.092	5.092	5.092
0.75	5.092	5.092	5.092
0.80	5.092	5.092	5.092
0.88	5.092	5.092	5.092
—	—	—	—
—	—	—	—

Object +12.0V1A

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]
0.0	12.037	12.037	12.037
0.2	12.037	12.037	12.037
0.4	12.036	12.036	12.036
0.6	12.036	12.036	12.036
0.8	12.035	12.035	12.035
1.0	12.035	12.035	12.034
1.1	12.034	12.034	12.034
—	—	—	—
—	—	—	—
—	—	—	—

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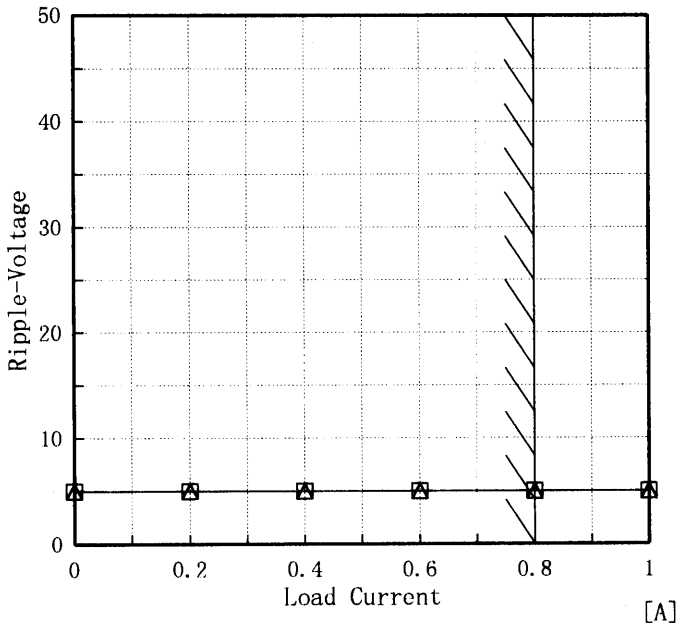
Model	RMB15A-1
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)
Object	+5.0V0.8A

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

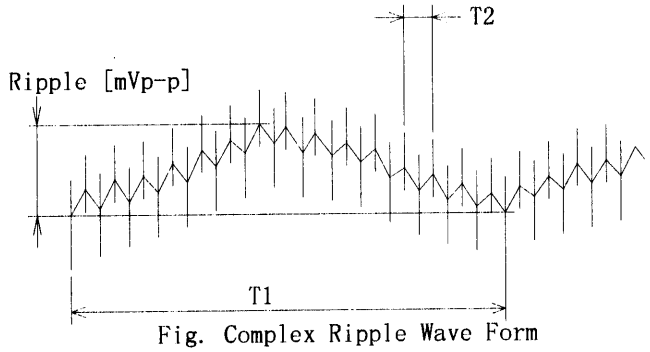


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

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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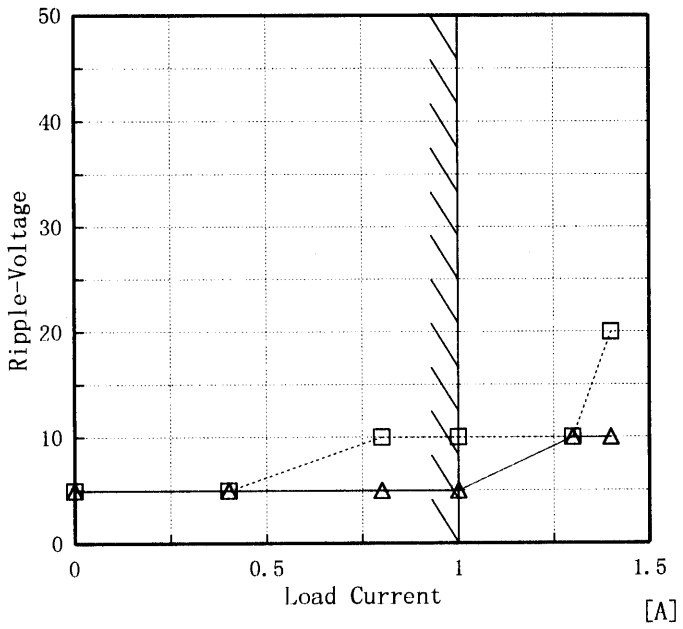
Model	RMB15A-1
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)
Object	+12.0V1A

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

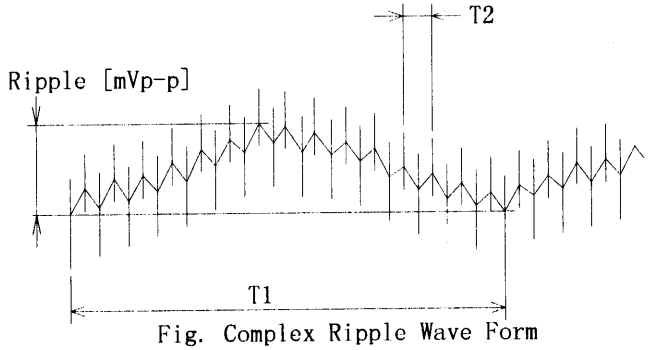


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	5	5
0.4	5	5
0.8	10	5
1.0	10	5
1.3	10	10
1.4	20	10
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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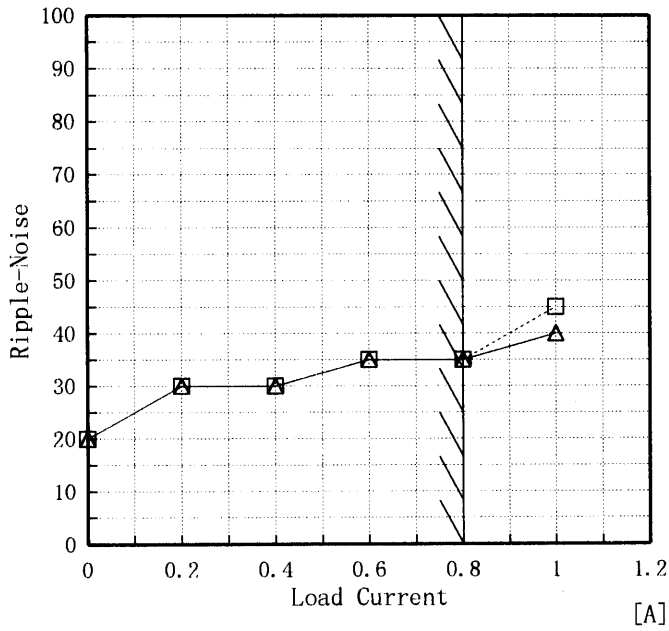
COSEL

Model	RMB15A-1
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

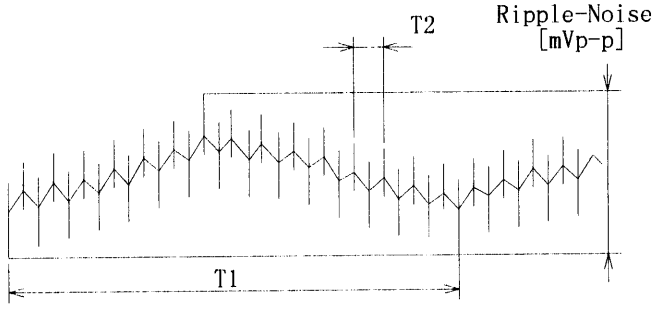


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

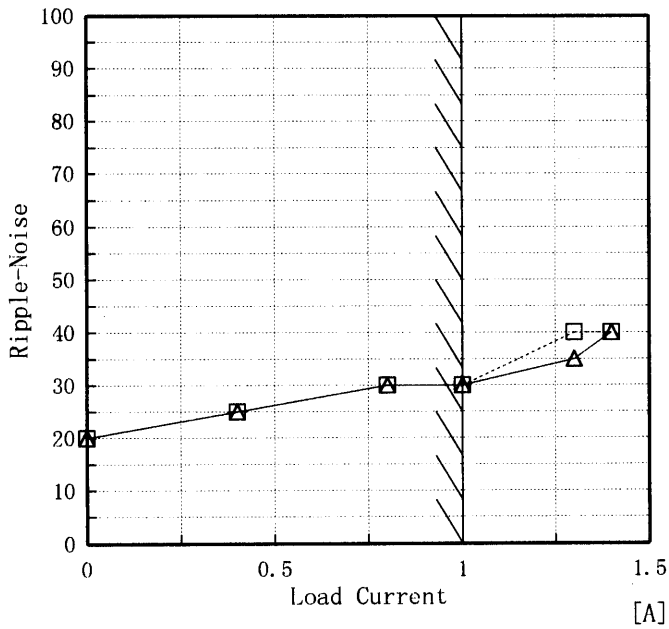
Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	20	20
0.2	30	30
0.4	30	30
0.6	35	35
0.8	35	35
1.0	45	40
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

COSEL

Model	RMB15A-1
Item	Ripple-Noise リップルノイズ
Object	+12.0V1A

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

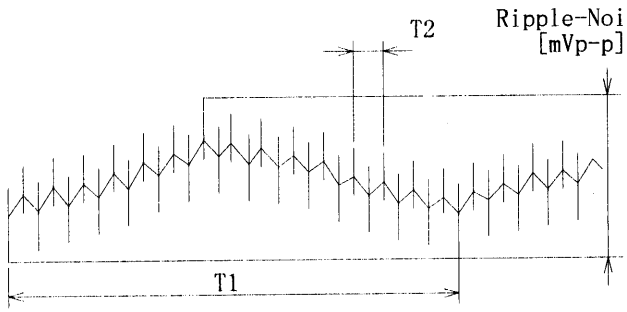


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	20	20
0.4	25	25
0.8	30	30
1.0	30	30
1.3	40	35
1.4	40	40
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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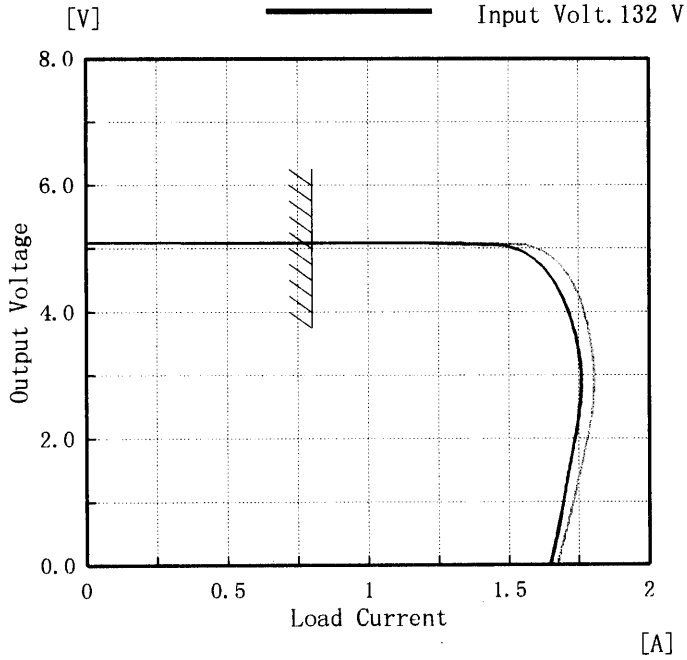
COSEL

Model	RMB15A-1
Item	Overcurrent Protection 過電流保護

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

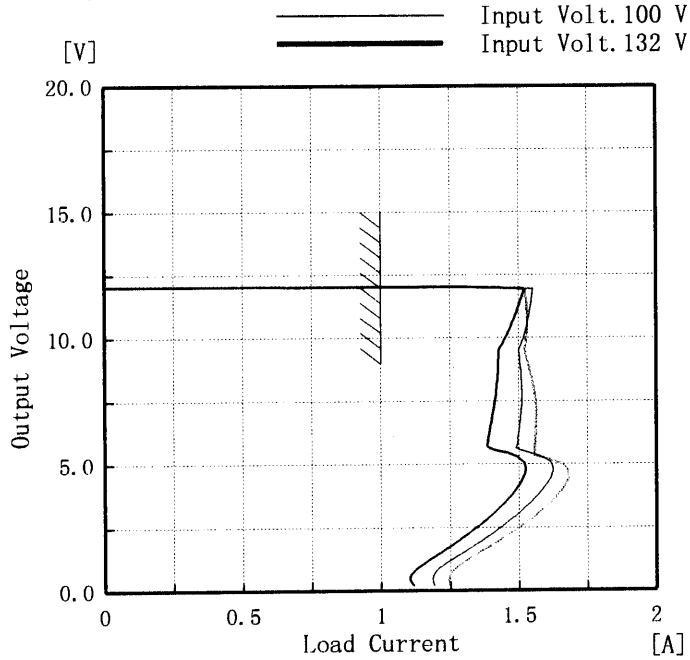


2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
5.00	1.615	1.543	1.541
4.75	1.681	1.614	1.612
4.50	1.728	1.663	1.661
4.00	1.771	1.719	1.714
3.50	1.794	1.747	1.742
3.00	1.805	1.761	1.757
2.50	1.799	1.755	1.749
2.00	1.780	1.737	1.734
1.50	1.757	1.716	1.714
1.00	1.727	1.695	1.692
0.50	1.698	1.673	1.669
0.00	1.669	1.647	1.642

Object +12.0V1A

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。

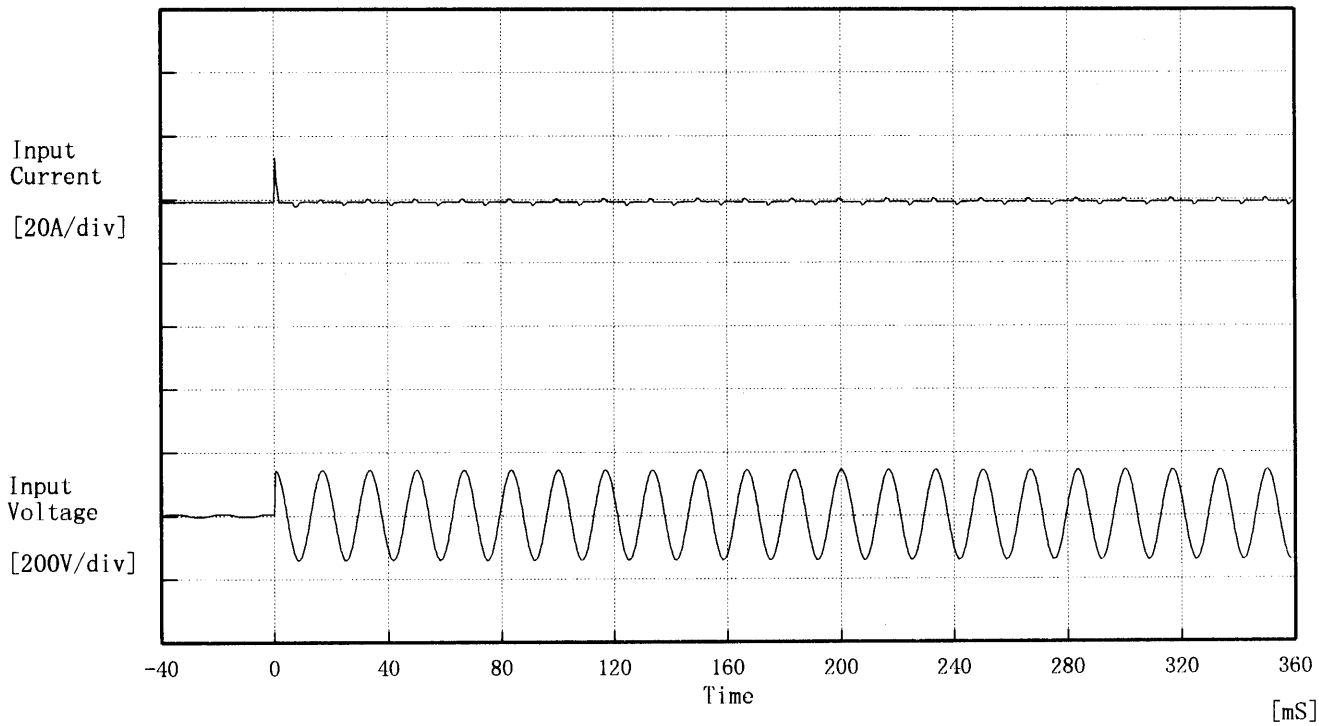
2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
12.00	1.52	1.55	1.52
11.40	1.53	1.55	1.51
10.80	1.53	1.54	1.48
9.60	1.52	1.50	1.43
8.40	1.55	1.51	1.42
7.20	1.57	1.51	1.41
6.00	1.56	1.50	1.39
4.80	1.68	1.62	1.52
3.60	1.62	1.55	1.45
2.40	1.49	1.42	1.33
1.20	1.31	1.25	1.17
0.00	1.25	1.19	1.12

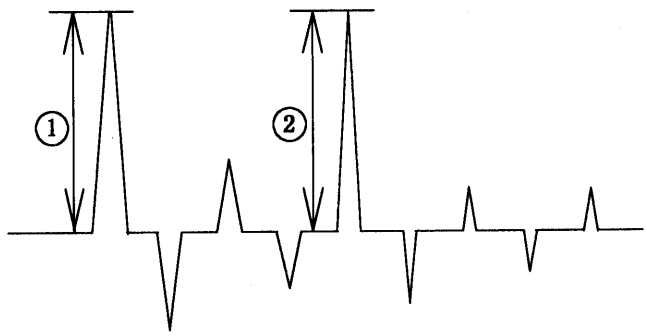
BC-3254

COSEL

Model	RMB15A-1		
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 13.09 [A]
② 1.95 [A]



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COSEL

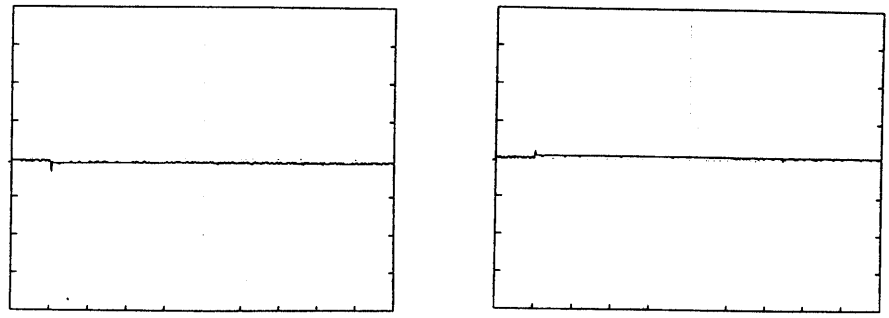
Model	RMB15A-1		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+5.0V0.8A		

Input Volt. 100 V

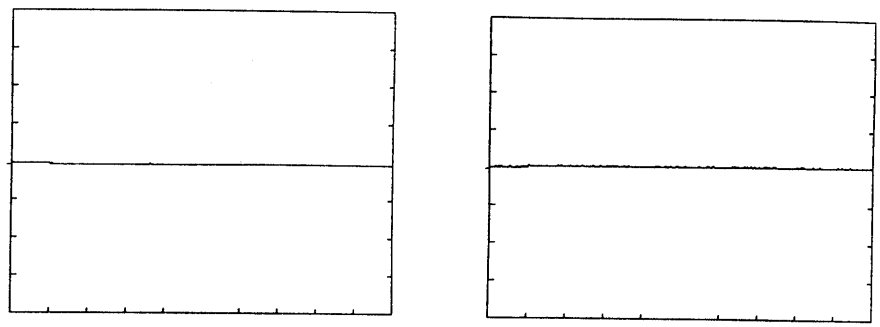
Cycle 1000 mS

Load Current

Load 0% ←→
Load 100 %



Load 0% ←→
Load 50 %



100 mV/div

10 mS/div

COSEL

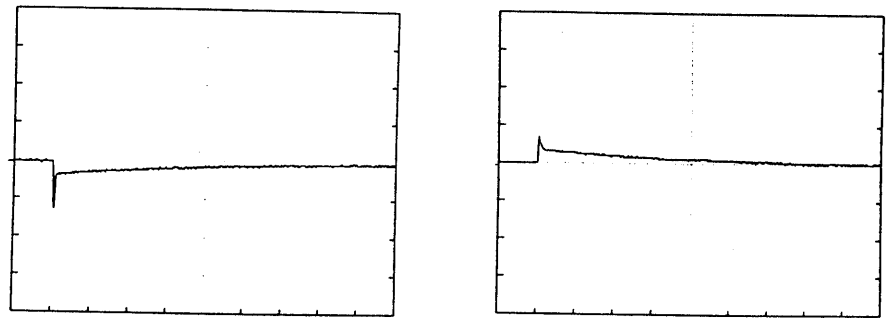
Model	RMB15A-1		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+12.0V1A		

Input Volt. 100 V

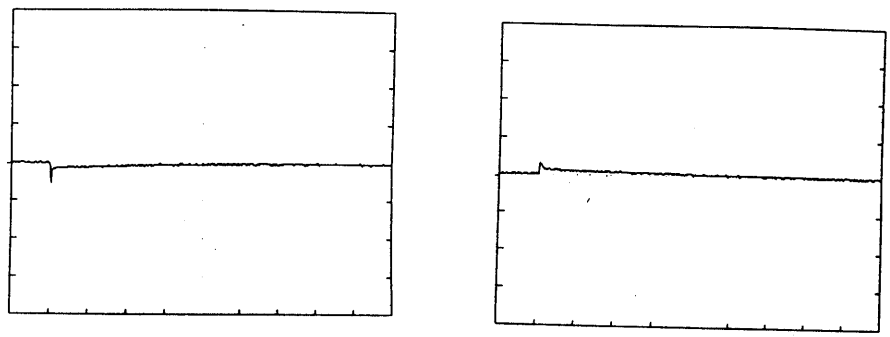
Cycle 1000 mS

Load Current

Load 0% ←→
Load 100 %



Load 0% ←→
Load 50 %



100 mV/div

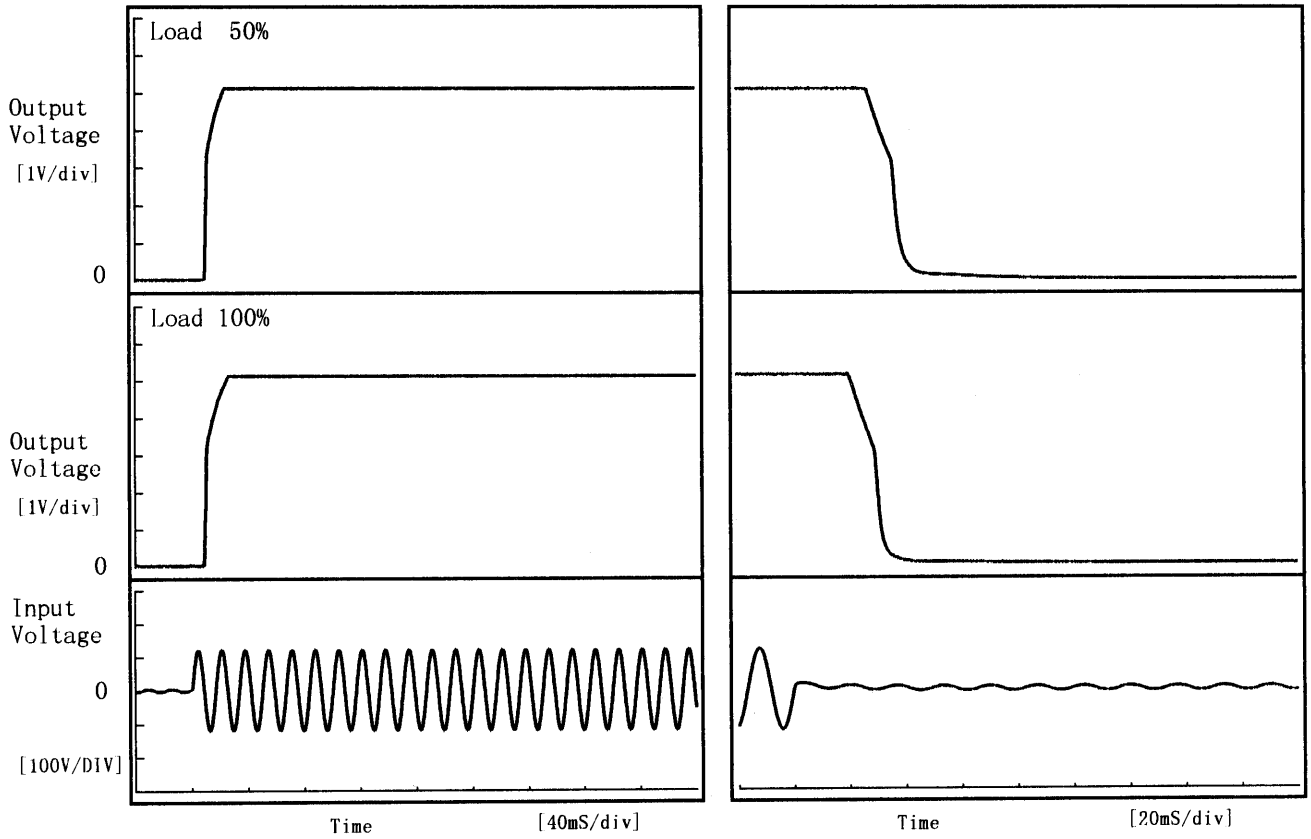
10 mS/div

COSEL

Model	RMB15A-1		
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

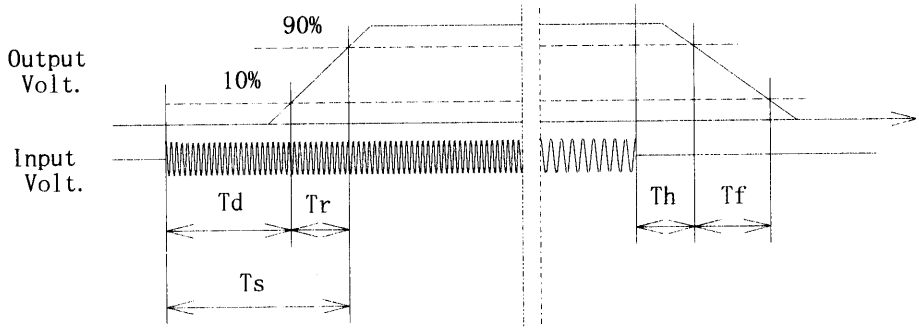
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	9.2	8.6	17.8	28.7	11.9
100 %	9.0	10.4	19.4	22.4	10.8



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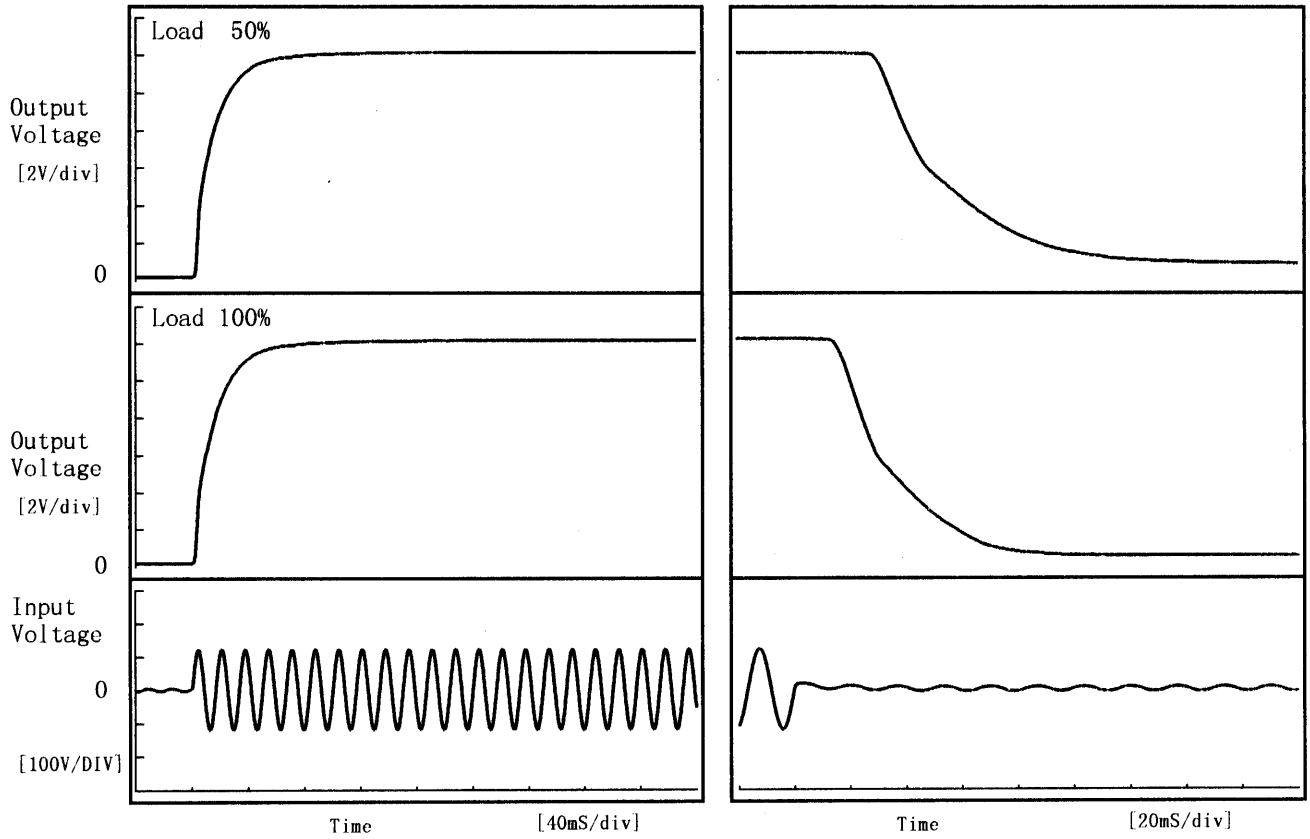
COSEL

Model	RMB15A-1		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+12.0V1A		

1. Graph

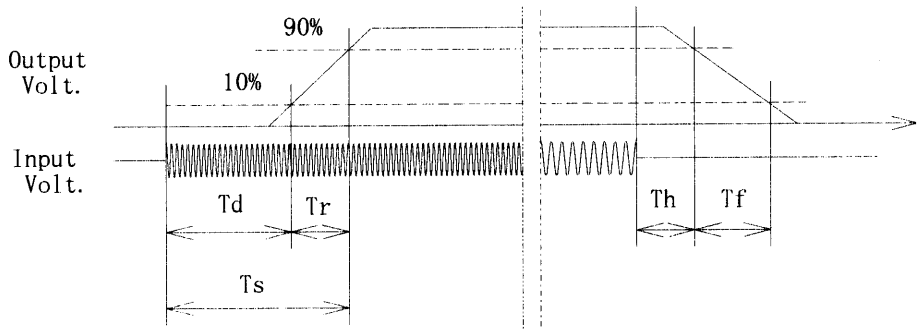
Input Volt. 85 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	2.6	32.0	34.6	32.7	79.5
100 %	2.6	33.0	35.6	18.2	48.9



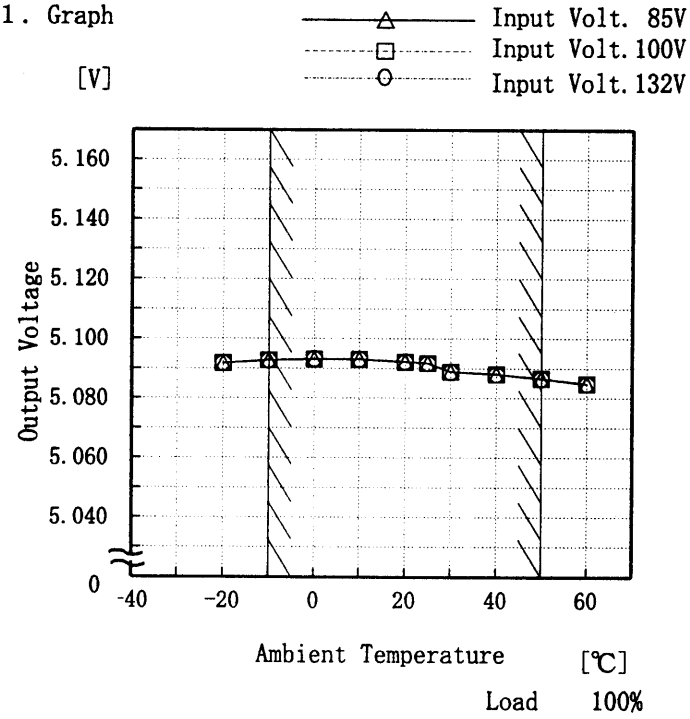
COSEL

Model	RMB15A-1
Item	Ambient Temperature Drift 周囲温度変動

Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph

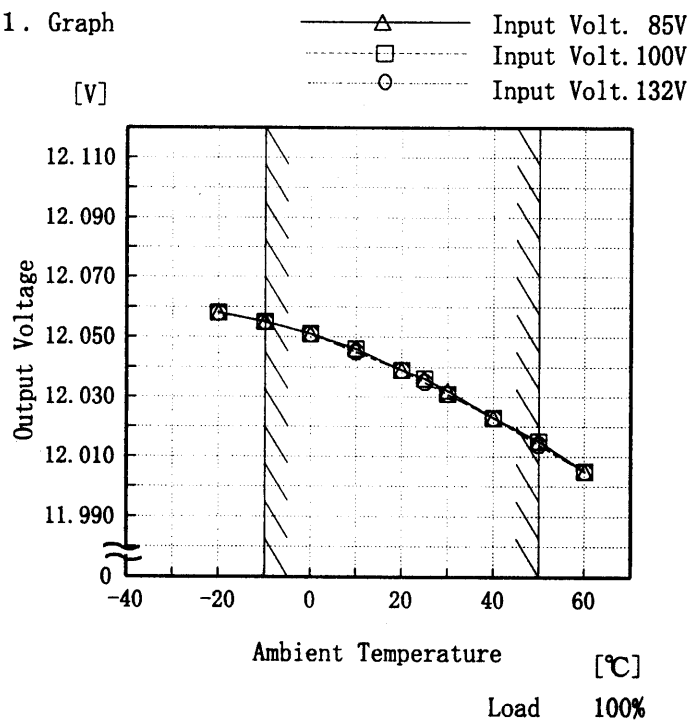


2. Values

Ambient Temperature [℃]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	5.092	5.092	5.092
-10	5.093	5.093	5.093
0	5.093	5.093	5.093
10	5.093	5.093	5.093
20	5.092	5.092	5.092
25	5.092	5.092	5.092
30	5.089	5.089	5.089
40	5.088	5.088	5.088
50	5.087	5.087	5.087
60	5.085	5.085	5.085
—	—	—	—

Object +12.0V1A

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	12.058	12.058	12.058
-10	12.055	12.055	12.055
0	12.051	12.051	12.051
10	12.046	12.046	12.045
20	12.039	12.039	12.039
25	12.036	12.036	12.035
30	12.032	12.031	12.031
40	12.023	12.023	12.023
50	12.015	12.015	12.014
60	12.005	12.005	12.005
—	—	—	—

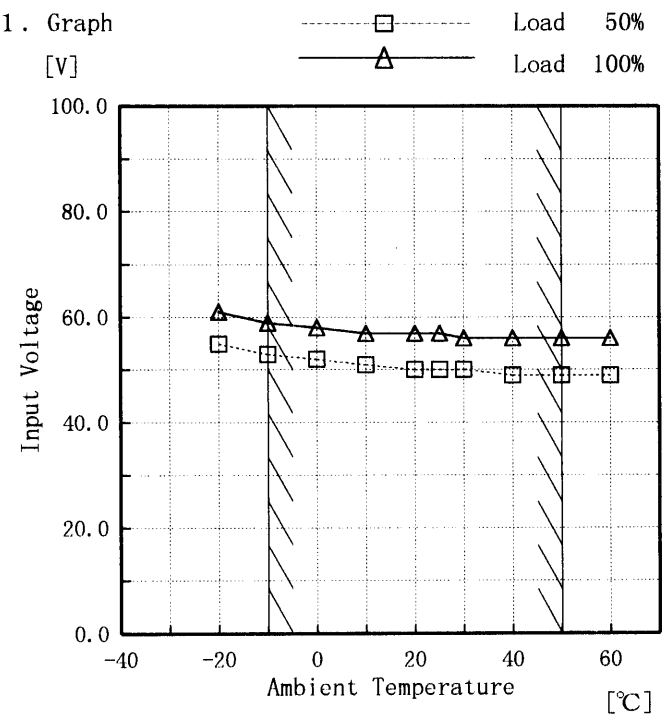
COSEL

Model	RMB15A-1
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

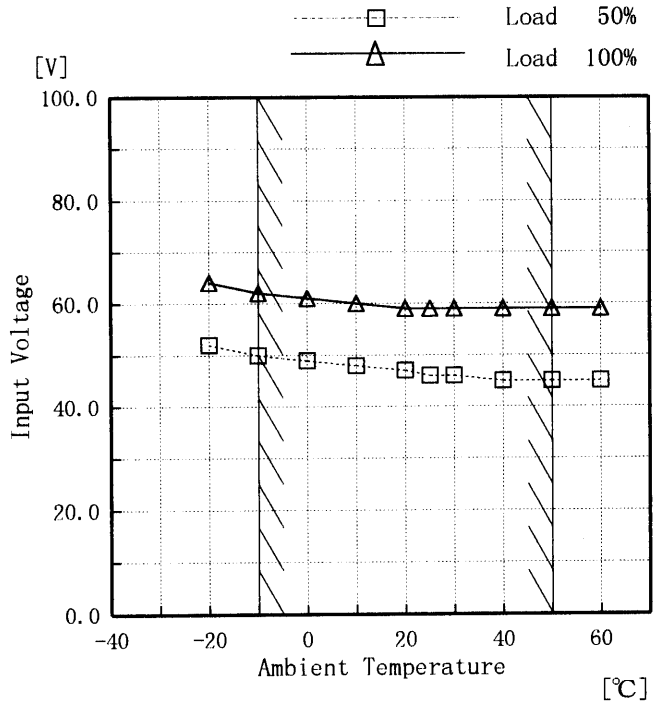
1. Graph



2. Values

Ambient Temperature [℃]	Input Voltage [V]	
	Load 50%	Load 100%
-20	55	61
-10	53	59
0	52	58
10	51	57
20	50	57
25	50	57
30	50	56
40	49	56
50	49	56
60	49	56
—	—	—

Object +12.0V1A



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	52	64
-10	50	62
0	49	61
10	48	60
20	47	59
25	46	59
30	46	59
40	45	59
50	45	59
60	45	59
—	—	—

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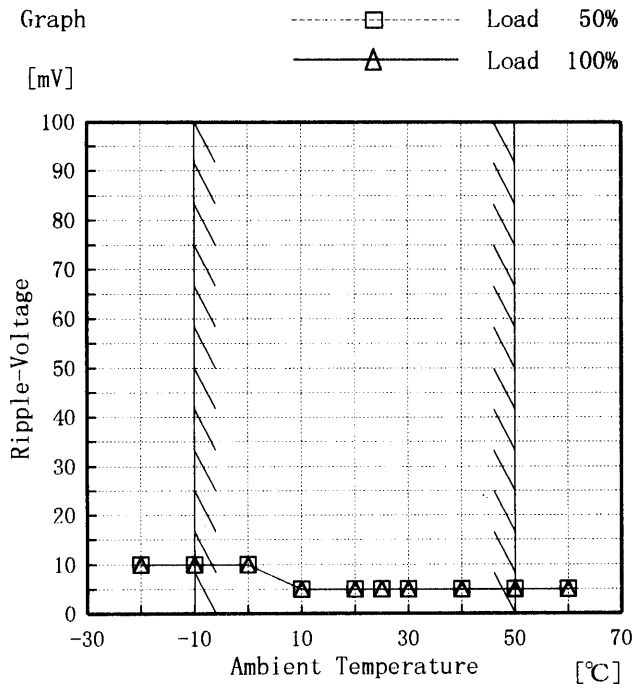
COSEL

Model	RMB15A-1
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



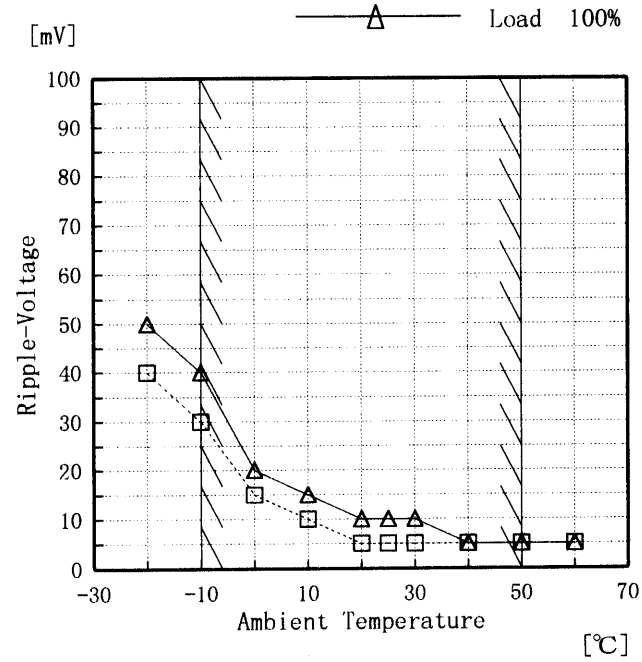
Input Volt. 100 V

2. Values

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

Object +12.0V1A

1. Graph



Input Volt. 100 V

2. Values

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

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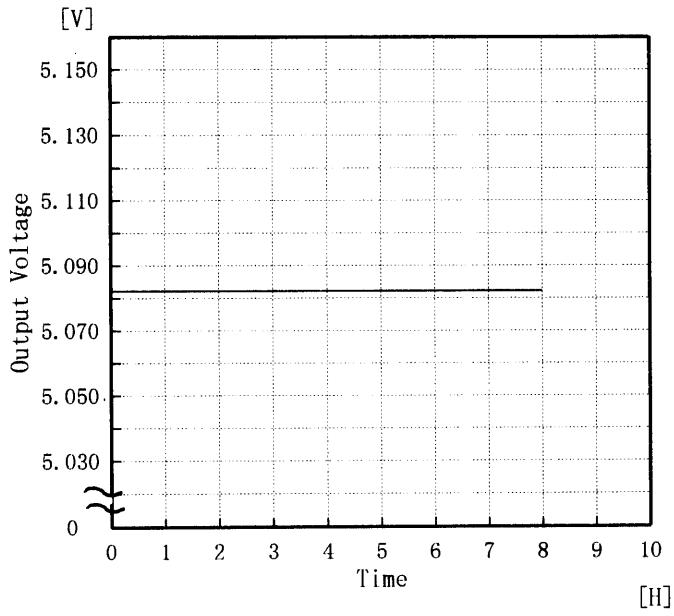
COSEL

Model	RMB15A-1
Item	Time Lapse Drift 経時ドリフト

Temperature 25℃
Testing Circuitry Figure A

Object +5.0V0.8A

1. Graph



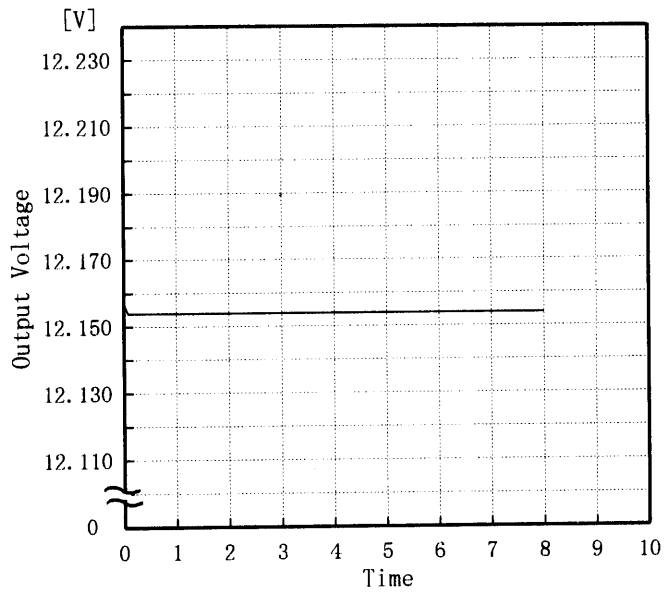
Input Volt. 100V
Load 100%

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 +12.0V1A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	12.156
0.5	12.154
1.0	12.154
2.0	12.154
3.0	12.154
4.0	12.154
5.0	12.154
6.0	12.154
7.0	12.154
8.0	12.154

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COSEL

Model	RMB15A-1	
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) : 0～1 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) 0～1 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	25	85	0.0	5.097	±6	±0.2
Minimum Voltage	50	132	0.8	5.086		

Object +12.0V1A

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration)[%]
Maximum Voltage	-10	85	0	12.058	±23	±0.2
Minimum Voltage	50	132	1	12.013		

COSEL

Model	RMB15A-1
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]	5.089	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	+12.0V1A

Item	Data	Testing Conditions
Output Voltage [V]	12.135	Input Volt.: 100V, Load Current:1A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:1A
Load Regulation [mV]	3	Input Volt.: 100V, Load Current:0～1A

COSEL

Model	RMB15A-1	Temperature	25℃
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	――――――		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.09	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-1
Item	Conducted Emission 雑音端子電圧
Object	――――――――

Testing Circuitry　　Figure D

1. Graph

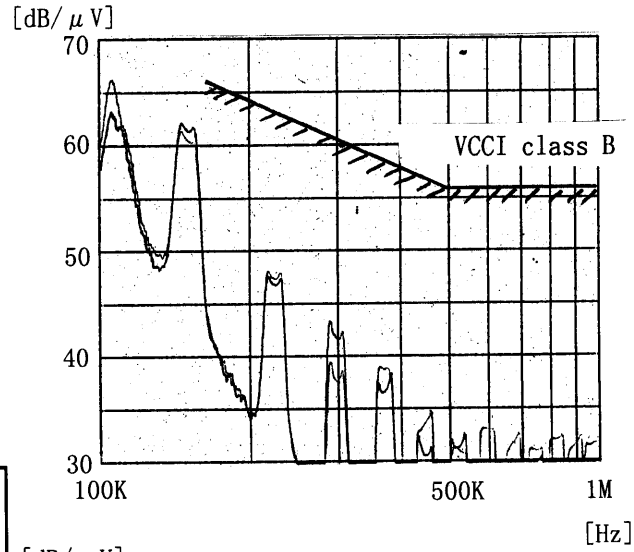
Remarks

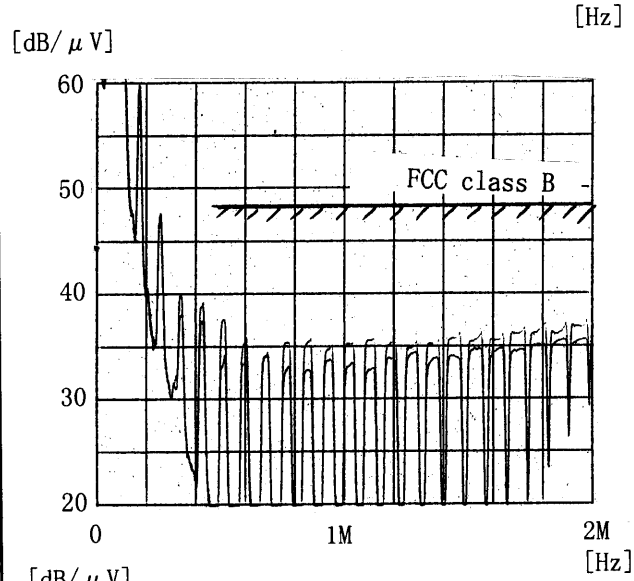
Input Volt.　　120 V(VCCI:100V)

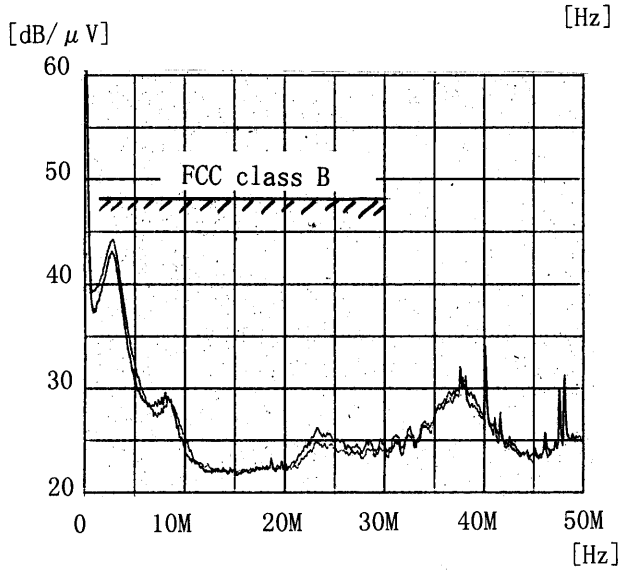
Load　　100 %

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

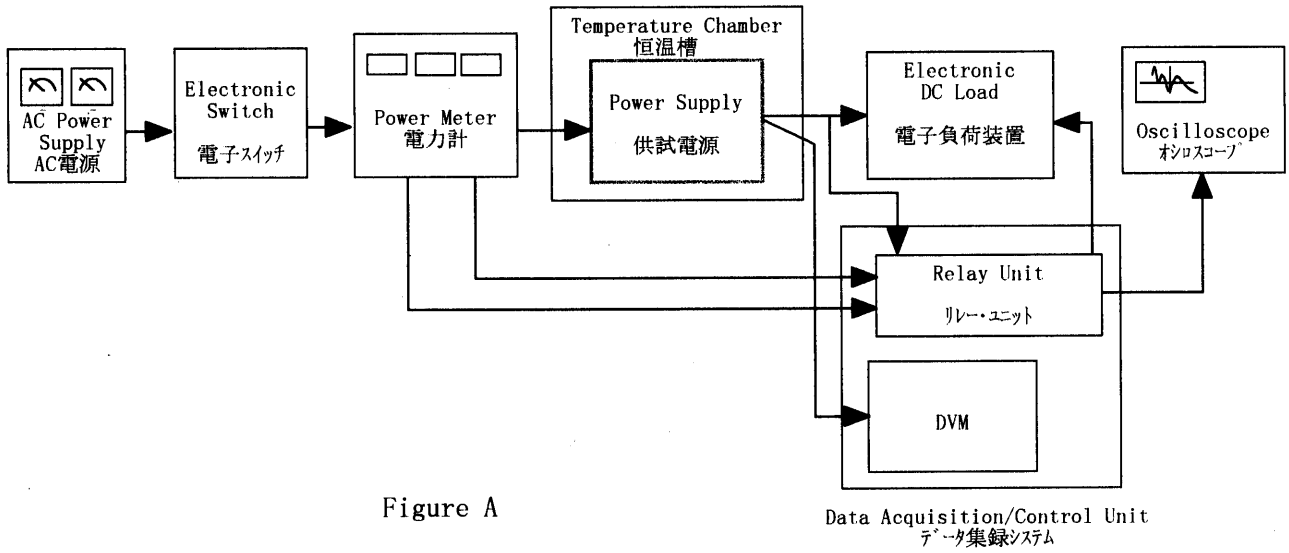

Figure A

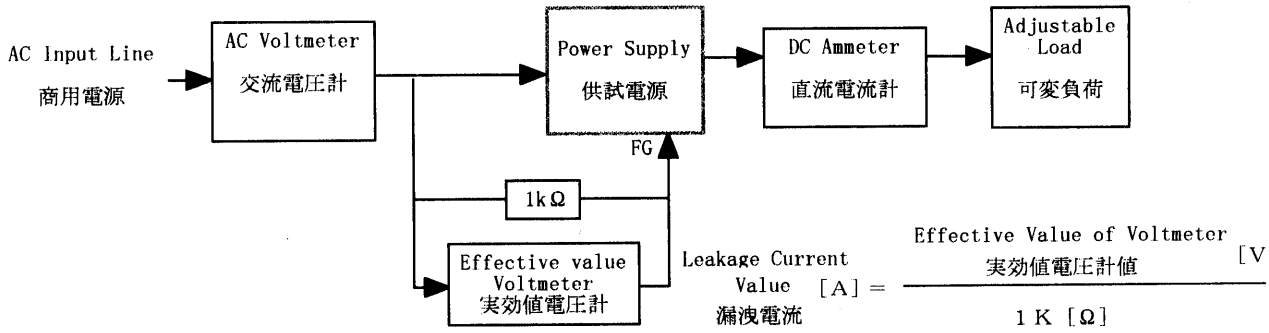

Figure B(DENTORI)

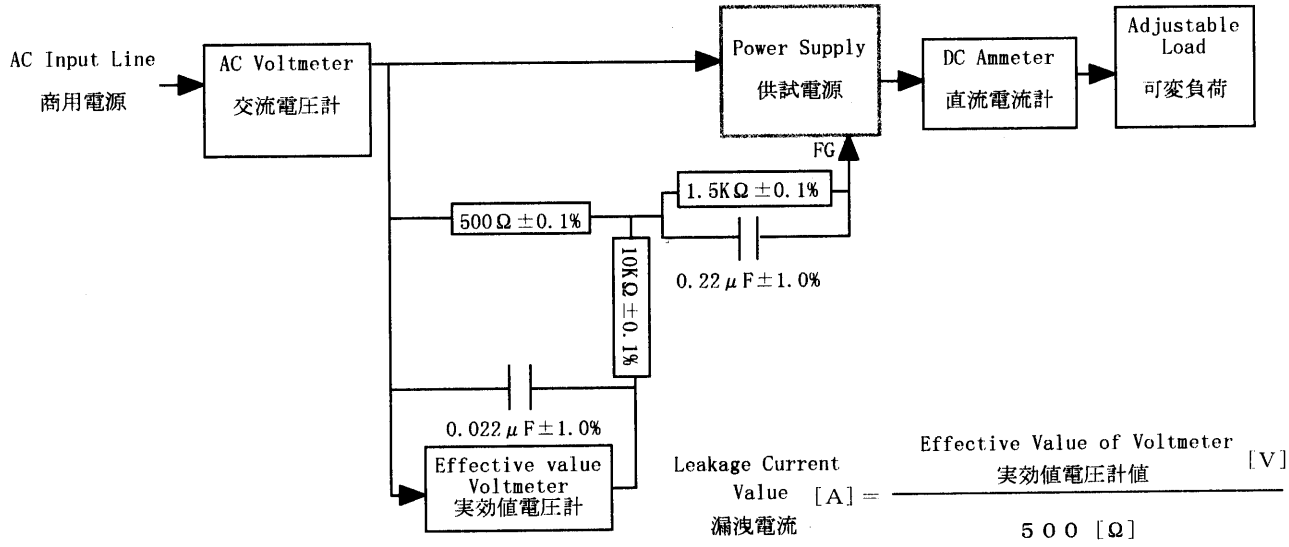

Figure B (IEC60950)

COSEL

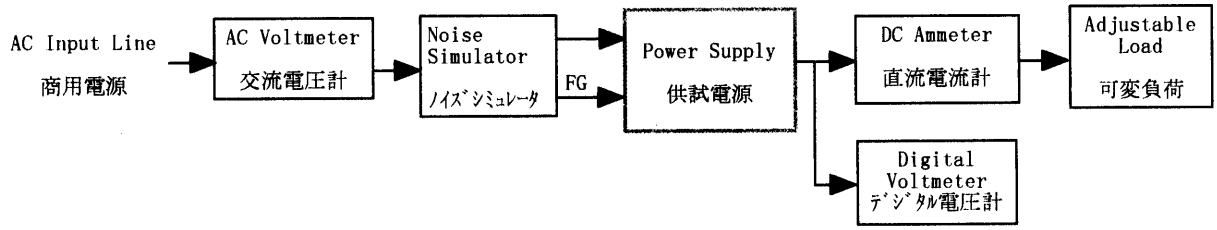

Figure C

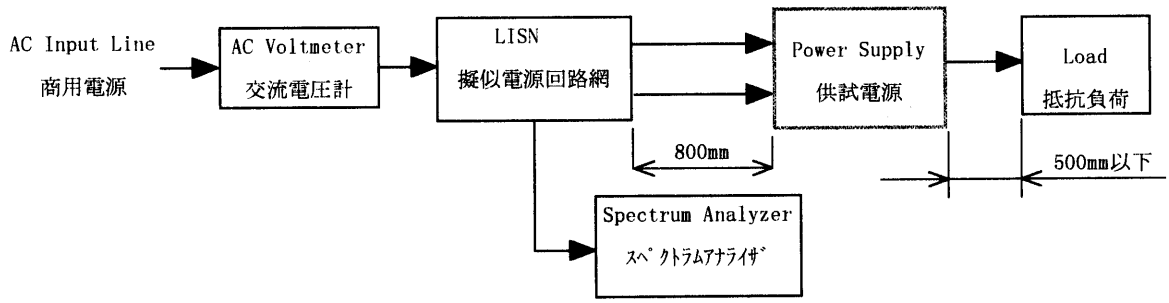

Figure D

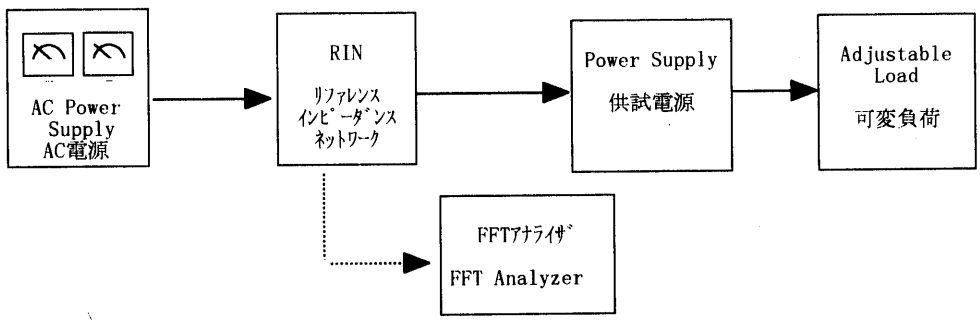

Figure E