参考資料

COSEL

TEST DATA OF LEA50F-24
(100V INPUT)

Regulated DC Power Supply

Date : Feb. 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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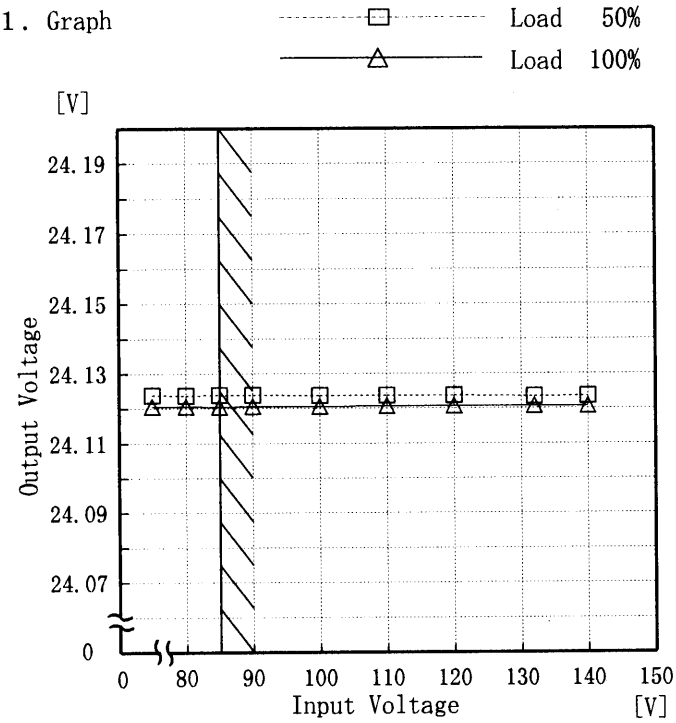
Model	LEA50F-24
Item	Line Regulation 静的入力変動
Object	+24V2.1A

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]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]
75	24.124	24.121
80	24.124	24.121
85	24.124	24.121
90	24.124	24.121
100	24.124	24.121
110	24.124	24.121
120	24.124	24.121
132	24.124	24.121
140	24.124	24.121

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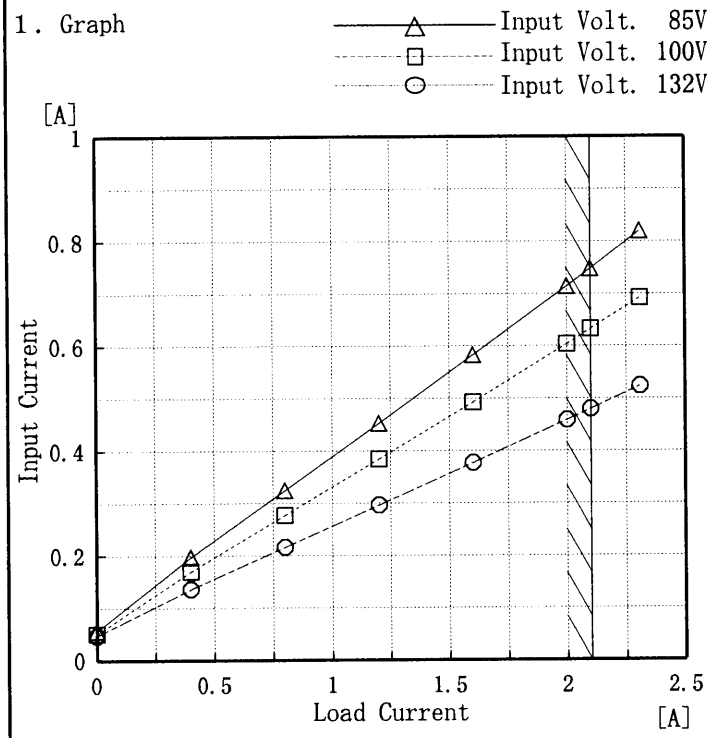
Model	LEA50F-24
Item	Input Current (by Load Current) 入力電流（負荷特性）
Output	————

Temperature 25℃
Testing Circuitry Figure A

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

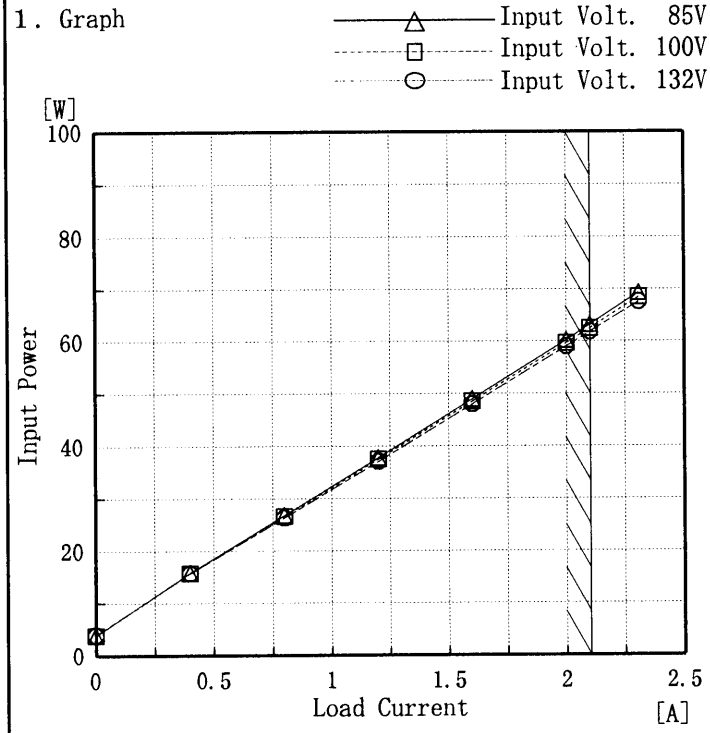
Load Current [A]	Input Current [A] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.056	0.051	0.047
0.40	0.197	0.170	0.137
0.80	0.324	0.277	0.216
1.20	0.453	0.385	0.296
1.60	0.583	0.493	0.377
2.00	0.714	0.604	0.459
2.10	0.748	0.633	0.480
2.31	0.820	0.692	0.524
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
Item	Input Power (by Load Current) 入力電力（負荷特性）
Output	————

Temperature 25℃
Testing Circuitry Figure A

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

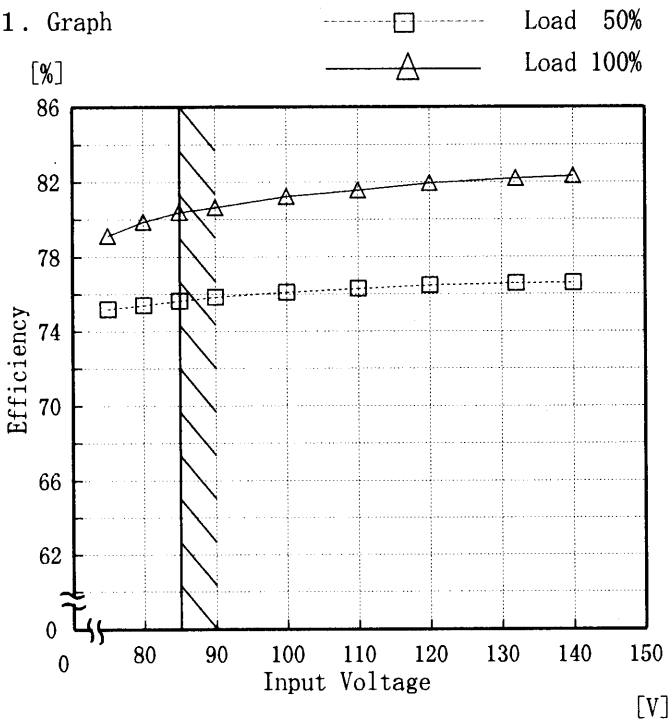
Load Current [A]	Input Power [W] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	3.74	3.75	3.87
0.40	15.83	15.74	15.69
0.80	26.79	26.60	26.36
1.20	37.84	37.52	37.10
1.60	48.99	48.53	48.00
2.00	60.20	59.68	59.00
2.10	63.20	62.53	61.80
2.31	69.30	68.52	67.60
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
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

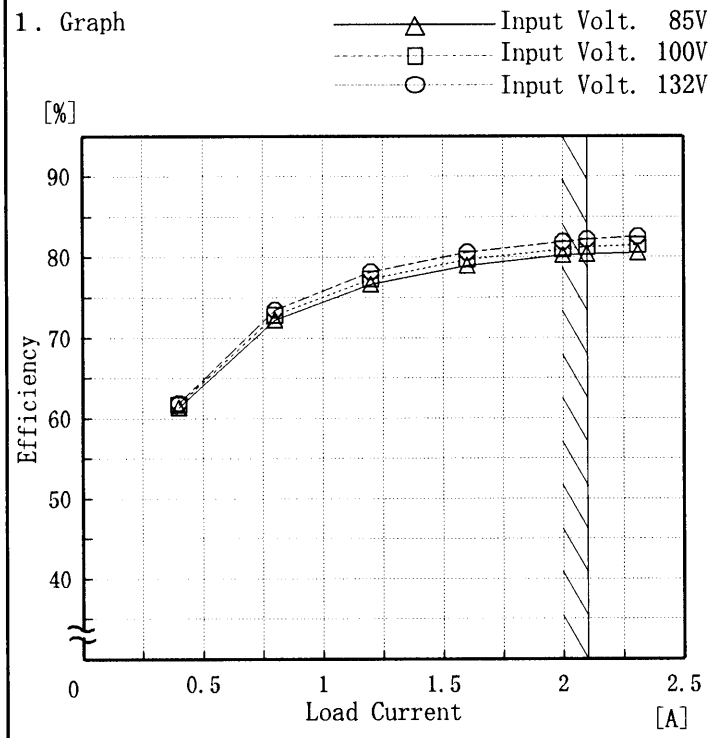
Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
75	75.2	79.1
80	75.4	79.9
85	75.6	80.4
90	75.8	80.6
100	76.1	81.2
110	76.3	81.6
120	76.5	81.9
132	76.6	82.2
140	76.6	82.3

COSEL

Model	LEA50F-24
Item	Efficiency (by Load Current) 効率（負荷電流特性）
Output	————

Temperature 25℃
Testing Circuitry Figure A

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

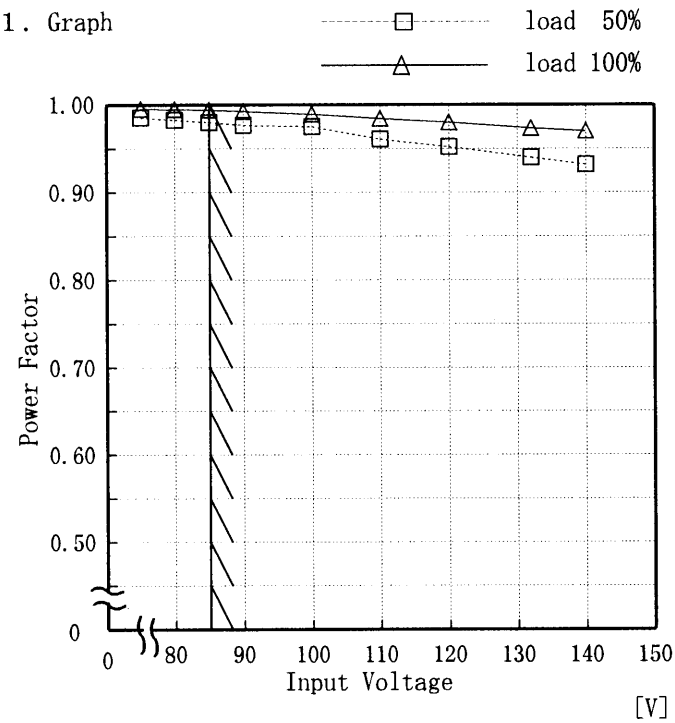
Load Current [A]	Efficiency [%] Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.40	61.3	61.7	61.9
0.80	72.2	72.8	73.4
1.20	76.6	77.3	78.2
1.60	79.0	79.7	80.6
2.00	80.3	81.0	81.9
2.10	80.4	81.2	82.2
2.31	80.6	81.5	82.6
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
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

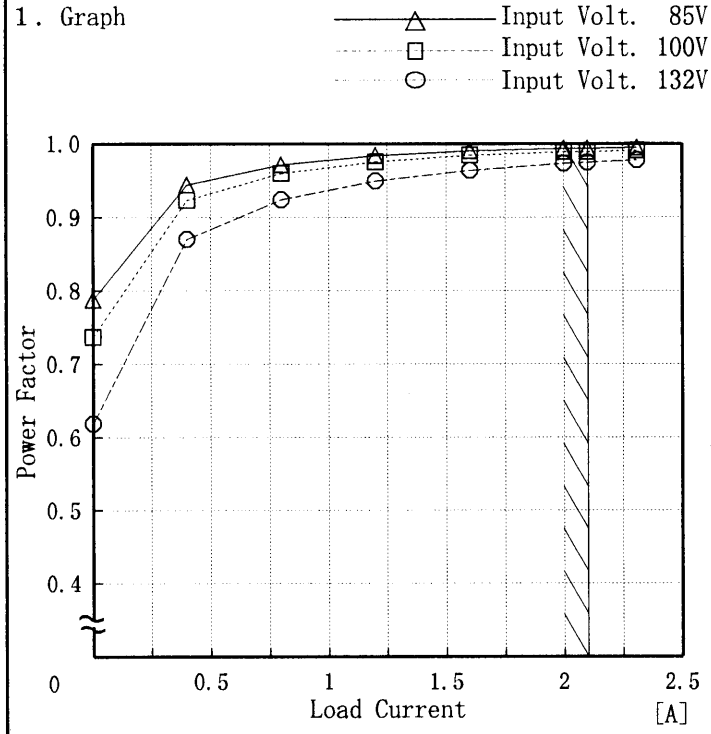
Input Voltage [V]	load 50% Power Factor	load 100% Power Factor
75	0.99	0.99
80	0.98	0.99
85	0.98	0.99
90	0.98	0.99
100	0.98	0.99
110	0.96	0.98
120	0.95	0.98
132	0.94	0.97
140	0.93	0.97

COSEL

Model	LEA50F-24
Item	Power Factor (by Load Current) 力率（負荷電流特性）
Output	――――

Temperature 25℃
Testing Circuitry Figure A

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

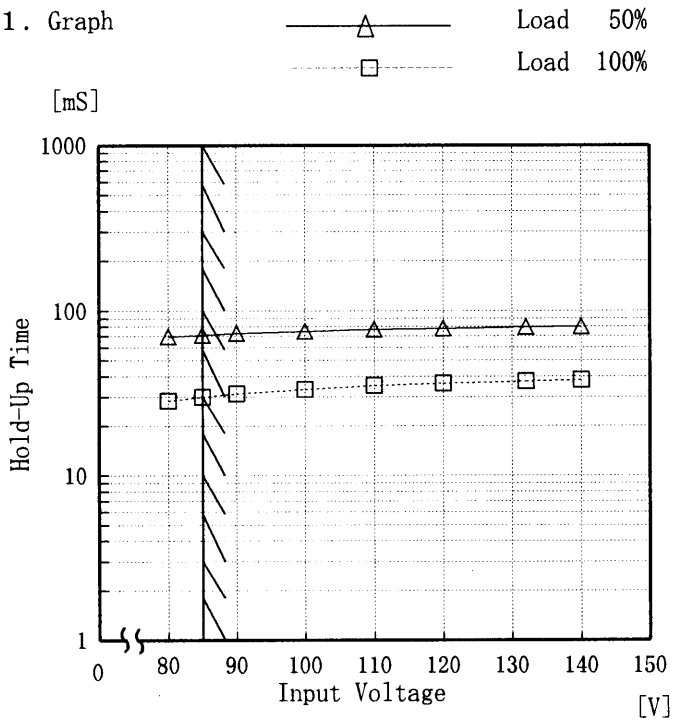
Load Current [A]	Power Factor Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.79	0.74	0.62
0.40	0.94	0.92	0.87
0.80	0.97	0.96	0.92
1.20	0.98	0.98	0.95
1.60	0.99	0.98	0.96
2.00	0.99	0.99	0.97
2.10	0.99	0.99	0.97
2.31	0.99	0.99	0.98
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
Item	Hold-Up Time　出力保持時間
Object	+24V2.1A

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]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]
75	—	—
80	70	28
85	71	30
90	73	31
100	75	33
110	77	35
120	78	36
132	79	37
140	80	38

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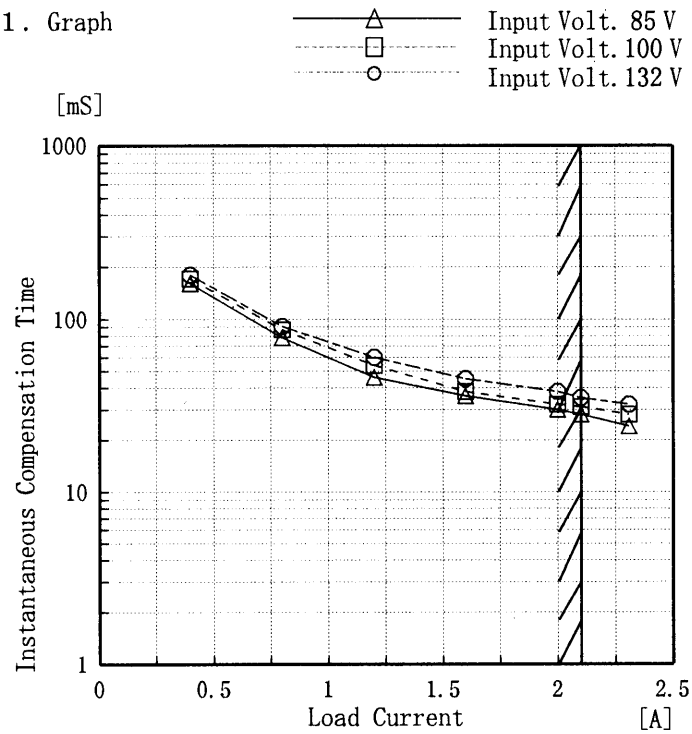
Model	LEA50F-24
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+24V2.1A

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]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.00	—	—	—
0.40	161	171	180
0.80	78	87	91
1.20	46	54	60
1.60	36	38	45
2.00	30	32	38
2.10	28	31	35
2.31	24	28	32
—	—	—	—
—	—	—	—
—	—	—	—

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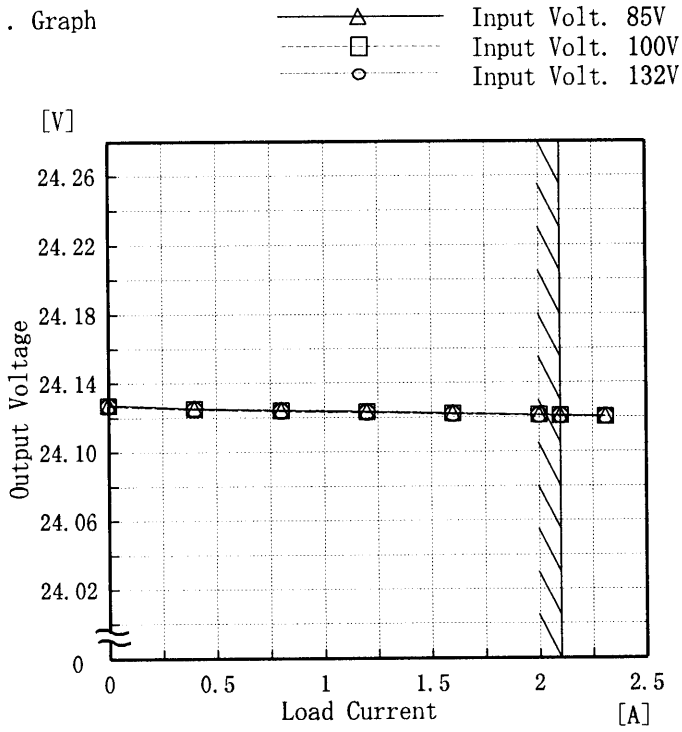
Model	LEA50F-24
Item	Load Regulation 静的負荷変動
Object	+24V2.1A

Temperature 25℃
Testing Circuitry Figure A

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

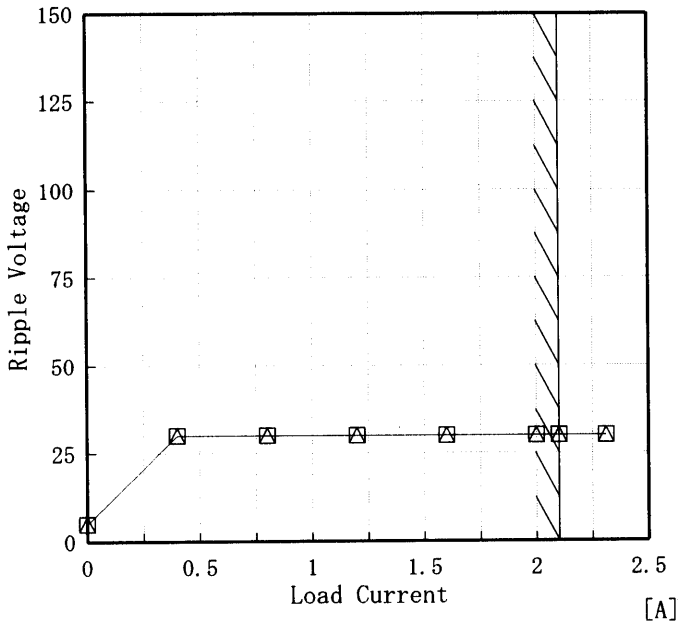
Load Current [A]	Input Volt. 85[V] Output Volt. [V]	Input Volt. 100[V] Output Volt. [V]	Input Volt. 132[V] Output Volt. [V]
0.00	24.128	24.127	24.127
0.40	24.125	24.125	24.125
0.80	24.124	24.124	24.124
1.20	24.123	24.123	24.123
1.60	24.122	24.122	24.122
2.00	24.121	24.121	24.121
2.10	24.121	24.121	24.121
2.31	24.121	24.120	24.120
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)
Object	+24V2.1A

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

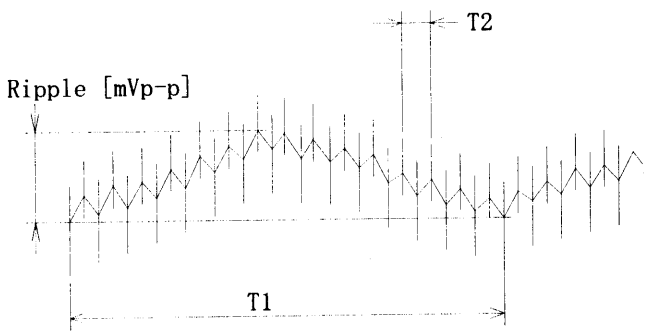


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

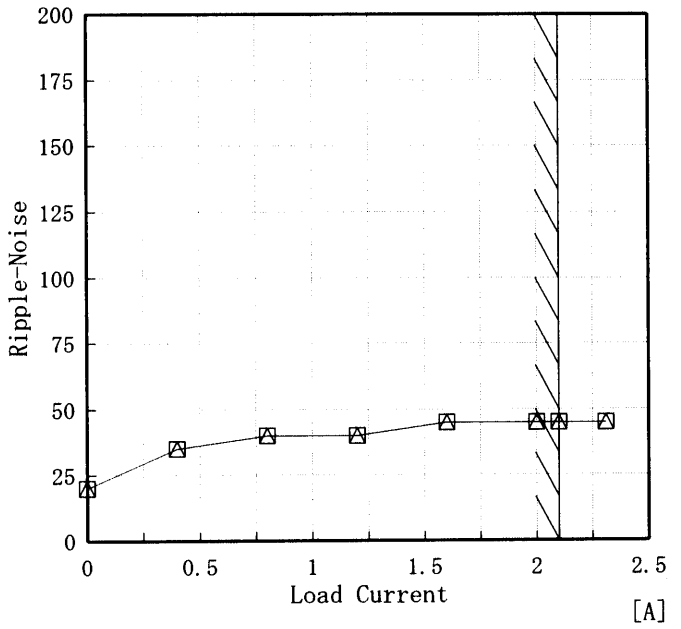
Load Current [A]	Input Volt. 85 [V] Ripple Output Volt. [mV]	Input Volt. 132 [V] Ripple Output Volt. [mV]
0.00	5	5
0.40	30	30
0.80	30	30
1.20	30	30
1.60	30	30
2.00	30	30
2.10	30	30
2.31	30	30
—	—	—
—	—	—
—	—	—

COSEL

Model	LEA50F-24
Item	Ripple-Noise リップルノイズ
Object	+24V2.1A

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

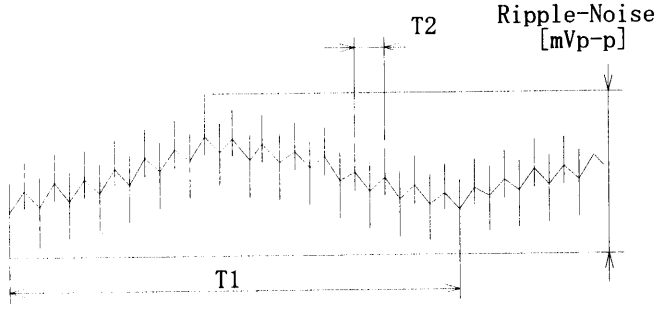


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

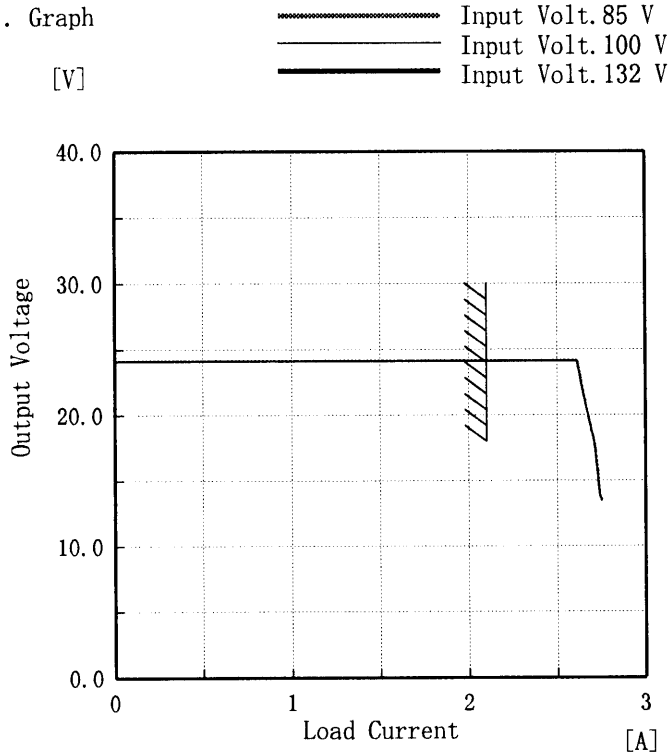
Load current [A]	Input Volt. 85 [V] Ripple-Noise [mV]	Input Volt. 132 [V] Ripple-Noise [mV]
0.00	20	20
0.40	35	35
0.80	40	40
1.20	40	40
1.60	45	45
2.00	45	45
2.10	45	45
2.31	45	45
—	—	—
—	—	—
—	—	—

COSEL

Model	LEA50F-24
Item	Overcurrent Protection 過電流保護
Object	+24V2.1A

Temperature 25℃
Testing Circuitry Figure A

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。
14.4V以下は間欠状態。

2. Values

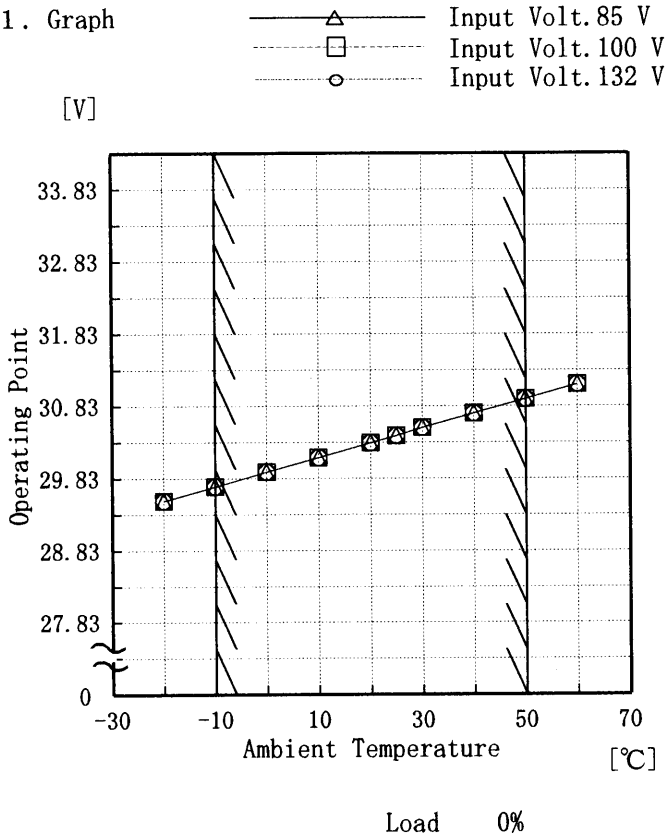
Output Voltage [V]	Input Volt. 85[V] Load Current [A]	Input Volt. 100[V] Load Current [A]	Input Volt. 132[V] Load Current [A]
24.00	2.62	2.61	2.61
22.80	2.63	2.63	2.63
21.60	2.65	2.64	2.64
19.20	2.69	2.68	2.69
16.80	2.72	2.72	2.72
14.40	2.74	2.73	2.73
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-24
Item	Overvoltage Protection 過電圧保護
Object	+24V2.1A

Testing Circuitry Figure A

1. Graph



Load 0%

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

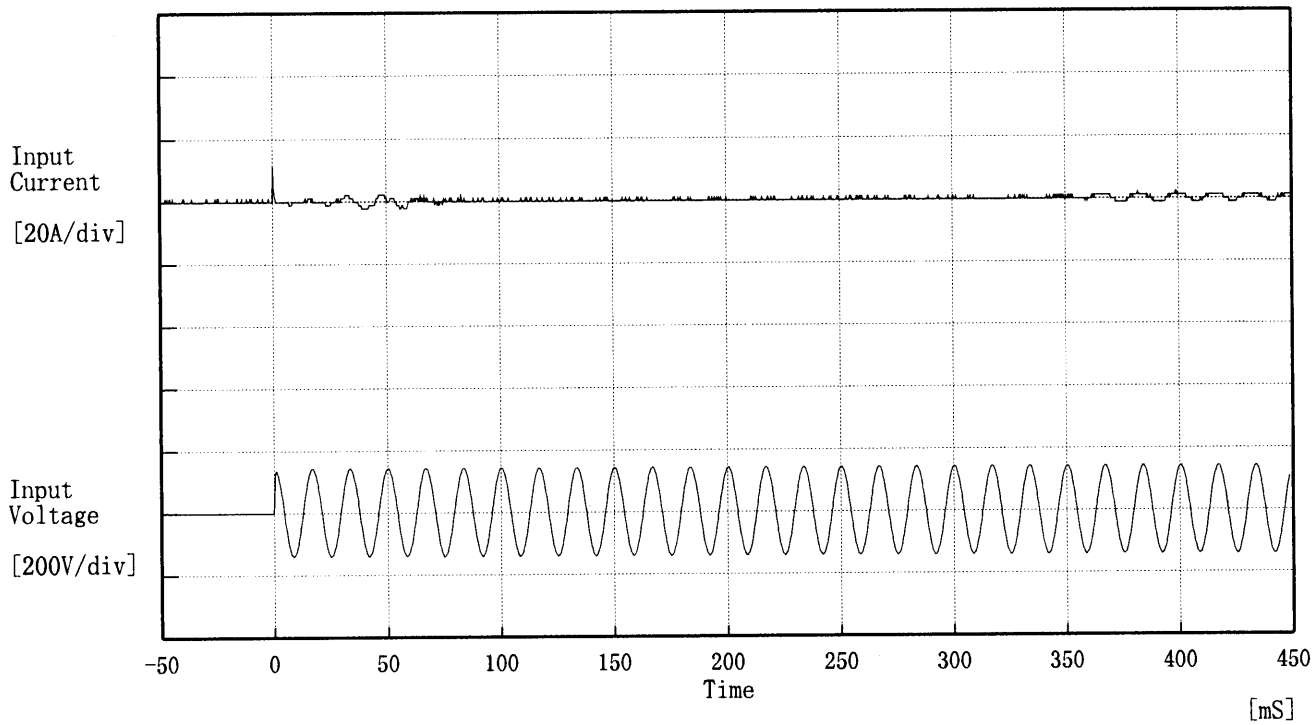
(注)斜線は定格周囲温度範囲を示す。

2. Values

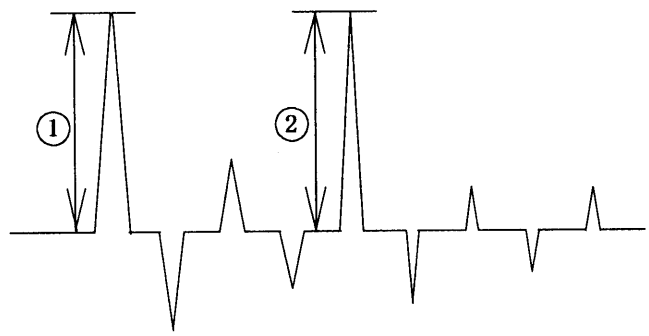
Ambient Temp. [℃]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	29.5	29.5	29.5
-10	29.7	29.7	29.7
0	29.9	29.9	29.9
10	30.1	30.1	30.1
20	30.3	30.3	30.3
25	30.4	30.4	30.4
30	30.5	30.5	30.5
40	30.7	30.7	30.7
50	30.9	30.9	30.9
60	31.1	31.1	31.1
—	—	—	—

COSEL

Model	LEA50F-24	Temperature 25℃
Item	Inrush Current 突入電流	Testing Circuitry Figure A
Object	――――――	



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



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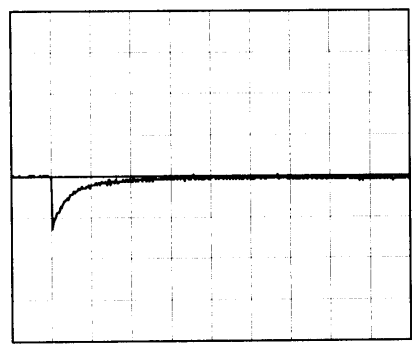
COSEL

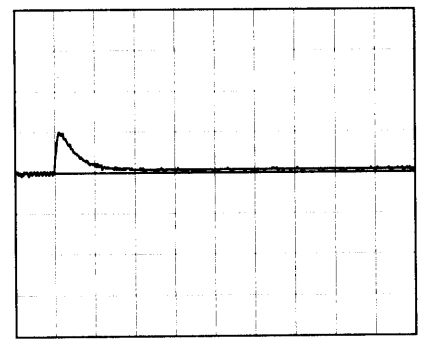
Model	LEA50F-24		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	＋２４Ｖ２．１Ａ		

Input Volt. 100 V
Cycle 1000 mS

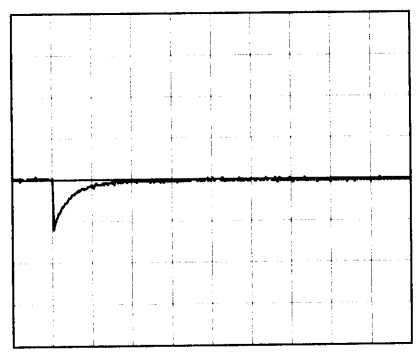
Load Current

Min. Load ←→
Load 100 %

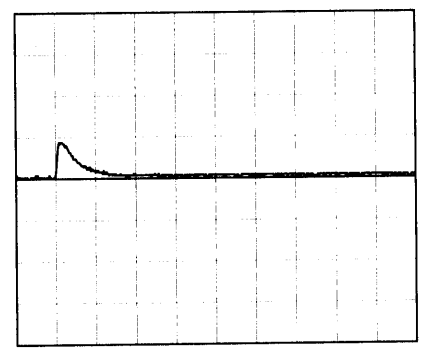




Min. Load ←→
Load 50 %



100 mV/div



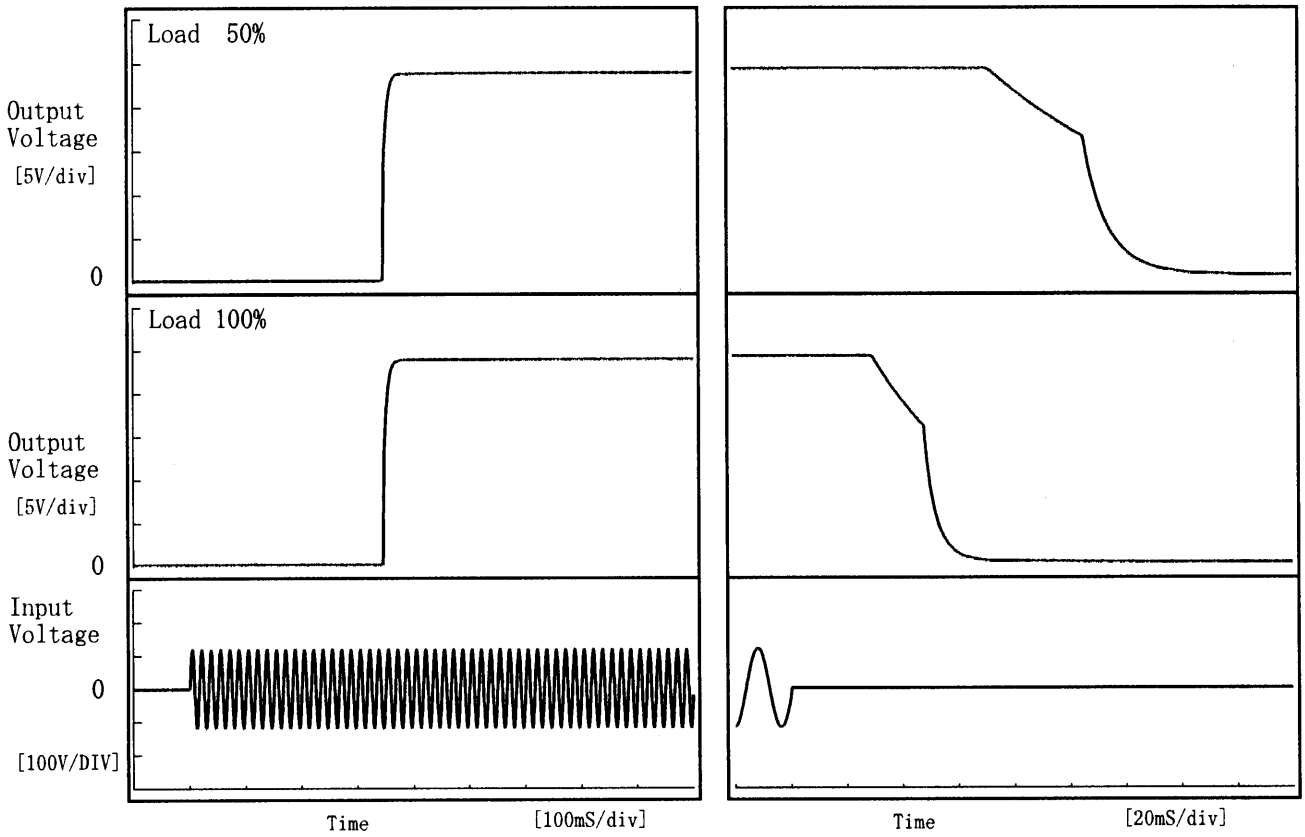
10 ms/div

COSEL

Model	LEA50F-24	Temperature	25℃
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24V2.1A		

1. Graph

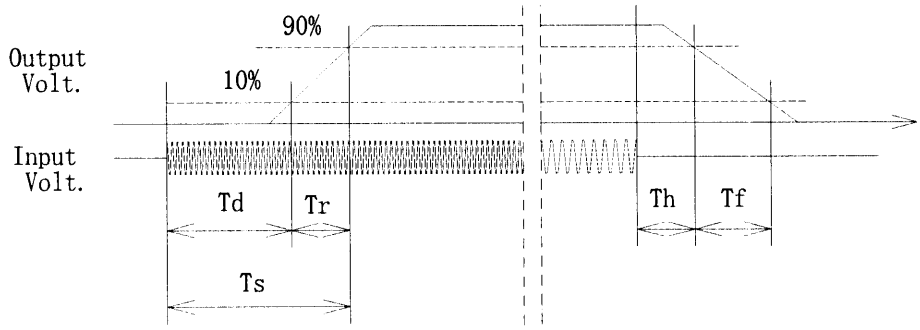
Input Volt. 85 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	345.5	11.5	357.0	81.2	43.3
100 %	346.0	11.0	357.0	34.3	22.6



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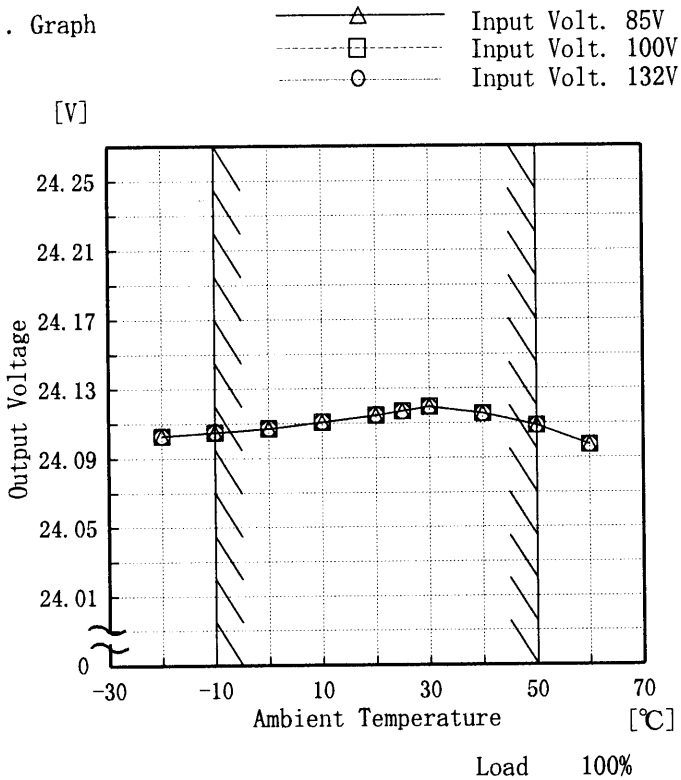
COSEL

Model	LEA50F-24
Item	Ambient Temperature Drift 周囲温度変動
Object	+24V2.1A

Testing Circuitry Figure A

1. Graph



Load 100%

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

(注)斜線は定格周囲温度範囲を示す。

2. Values

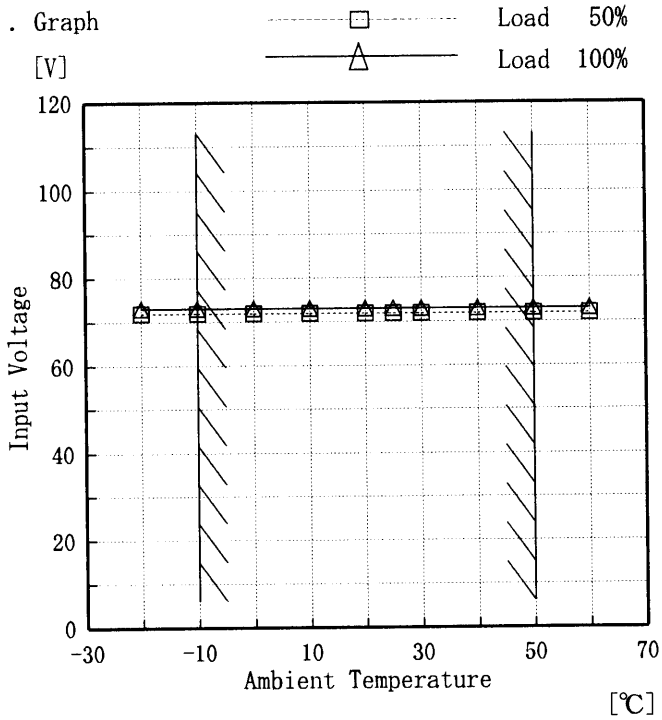
Temperature [℃]	Input Volt. 85[V] Output Volt. [V]	Input Volt. 100[V] Output Volt. [V]	Input Volt. 132[V] Output Volt. [V]
-20	24.103	24.103	24.103
-10	24.105	24.105	24.105
0	24.107	24.107	24.107
10	24.111	24.111	24.111
20	24.114	24.115	24.115
25	24.117	24.117	24.117
30	24.119	24.120	24.119
40	24.116	24.115	24.115
50	24.109	24.109	24.109
60	24.097	24.097	24.097
—	—	—	—

COSEL

Model	LEA50F-24
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+24V2.1A

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

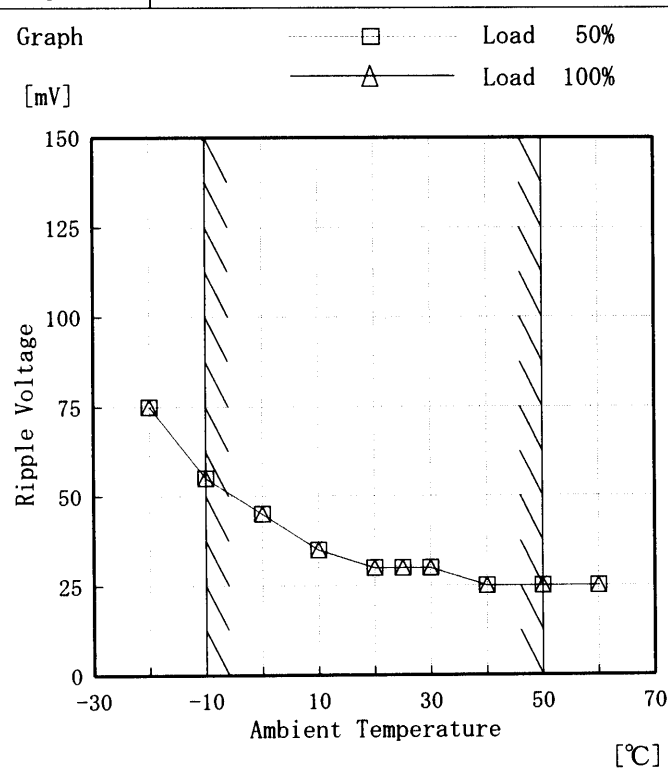
Ambient Temp. [℃]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	72	73
-10	72	73
0	72	73
10	72	73
20	72	73
25	72	73
30	72	73
40	72	73
50	72	73
60	72	73
—	—	—

COSEL

Model	LEA50F-24
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）
Object	+24V2.1A

Testing Circuitry Figure A

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

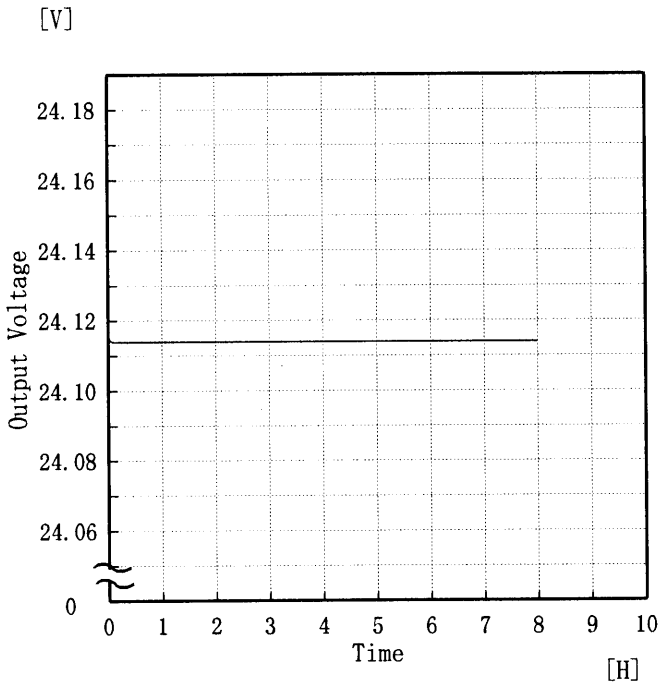
Ambient Temp. [℃]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]
-20	75	75
-10	55	55
0	45	45
10	35	35
20	30	30
25	30	30
30	30	30
40	25	25
50	25	25
60	25	25
—	—	—

COSEL

Model	LEA50F-24
Item	Time Lapse Drift 経時ドリフト
Object	+24V2.1A

Temperature 25 ℃
Testing Circuitry Figure A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	24.121
0.5	24.114
1.0	24.114
2.0	24.114
3.0	24.114
4.0	24.114
5.0	24.114
6.0	24.114
7.0	24.114
8.0	24.114

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COSEL

Model	LEA50F-24	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+24V2.1A	

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 : 0.00～2.1 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10～50 ℃
入力電圧 85～132 V
負荷電流 0.00～2.1 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

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

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	85	0.00	24.125	±11	±0.1
Minimum Voltage	-10	85	2.10	24.105		

COSEL

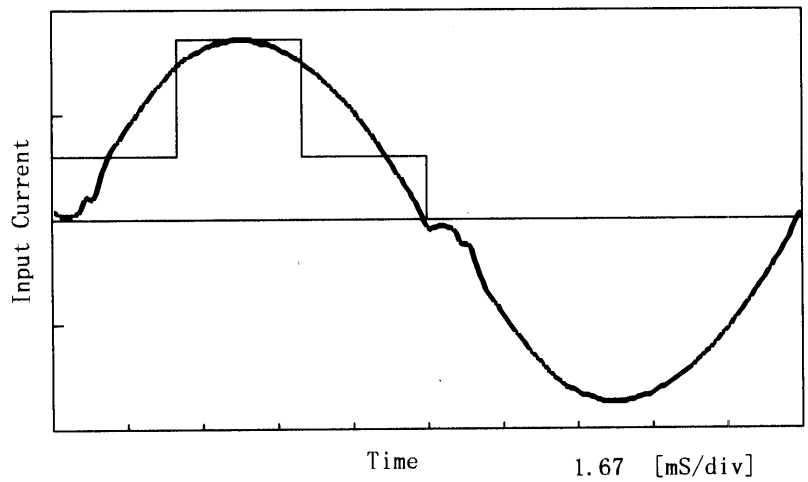
Model	LEA50F-24		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

―― Input Current

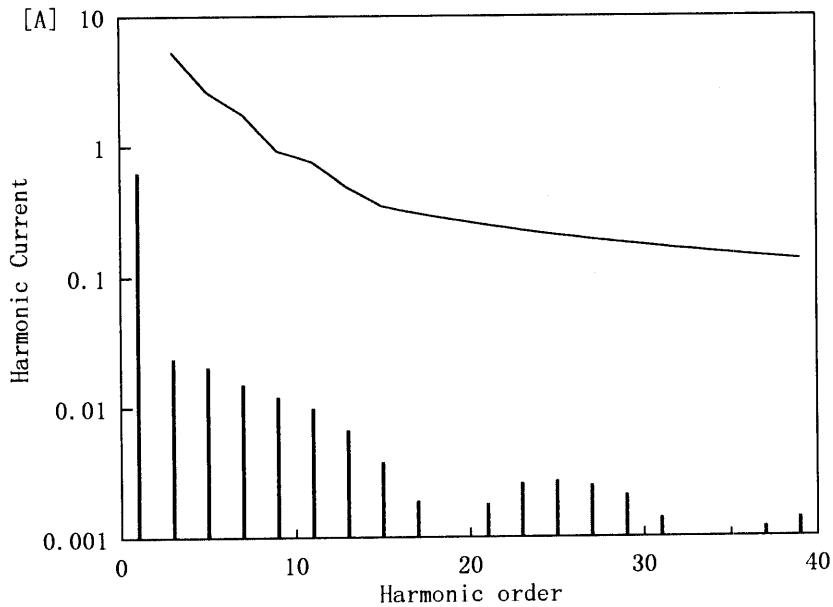
―― Envelope of the input current to classify equipment as Class D
ｸﾗｽDの機器を決定するための入力電流包絡線

0.5 A/div



Conditions	Values
Input Voltage [V]	100.1
Input Current [A]	0.633
Active Power [W]	63.2
Apparent Power[VA]	63.4
Frequency [Hz]	60
Power Factor	0.997
Output Power [W]	50.4

2. Harmonic Current



―― Harmonic Current
高調波電流

―― Limits for Class A equipment
ｸﾗｽAの機器に対する限度値

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.63240
2	—	0.00030
3	5.28472	0.02360
4	—	0.00020
5	2.61938	0.02040
6	—	0.00010
7	1.76923	0.01500
8	—	0.00010
9	0.91908	0.01200
10	—	0.00010
11	0.75824	0.00980
12	—	0.00010
13	0.48252	0.00660
14	—	0.00010
15	0.34466	0.00380
16	—	0.00010
17	0.30411	0.00190
18	—	0.00010
19	0.27210	0.00050
20	—	0.00010
21	0.24618	0.00180
22	—	0.00010
23	0.22478	0.00260
24	—	0.00010
25	0.20679	0.00270
26	—	0.00010
27	0.19148	0.00250
28	—	0.00010
29	0.17827	0.00210
30	—	0.00010
31	0.16677	0.00140
32	—	0.00000
33	0.15666	0.00080
34	—	0.00010
35	0.14771	0.00090
36	—	0.00000
37	0.13973	0.00120
38	—	0.00000
39	0.13256	0.00140
40	—	0.00000

COSEL

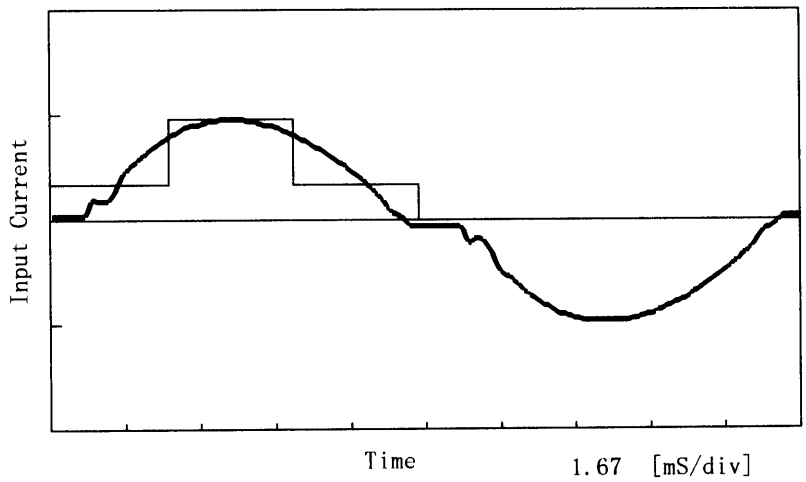
Model	LEA50F-24		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

―― Input Current

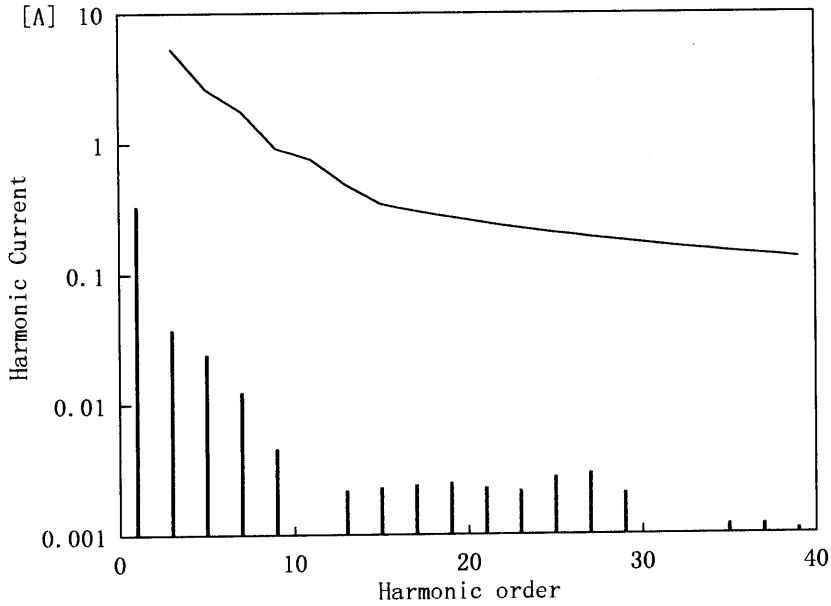
―― Envelope of the input current to classify equipment as Class D
ｸﾗｽDの機器を決定するための入力電流包絡線

0.5 A/div



Conditions	Values
Input Voltage [V]	100.2
Input Current [A]	0.338
Active Power [W]	33.3
Apparent Power[VA]	33.9
Frequency [Hz]	60
Power Factor	0.982
Output Power [W]	25.2

2. Harmonic Current



―― Harmonic Current
高調波電流

―― Limits for Class A equipment
ｸﾗｽAの機器に対する限度値

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.33490
2	—	0.00030
3	5.27944	0.03770
4	—	0.00010
5	2.61677	0.02440
6	—	0.00010
7	1.76747	0.01240
8	—	0.00000
9	0.91816	0.00460
10	—	0.00010
11	0.75749	0.00080
12	—	0.00000
13	0.48204	0.00220
14	—	0.00000
15	0.34431	0.00230
16	—	0.00000
17	0.30380	0.00240
18	—	0.00000
19	0.27182	0.00250
20	—	0.00000
21	0.24594	0.00230
22	—	0.00010
23	0.22455	0.00220
24	—	0.00010
25	0.20659	0.00280
26	—	0.00010
27	0.19128	0.00300
28	—	0.00000
29	0.17809	0.00210
30	—	0.00000
31	0.16660	0.00100
32	—	0.00000
33	0.15651	0.00080
34	—	0.00000
35	0.14756	0.00120
36	—	0.00010
37	0.13959	0.00120
38	—	0.00010
39	0.13243	0.00110
40	—	0.00000

COSEL

Model	LEA50F-24
Item	Condensation 結露特性
Object	+24V2.1A

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]	24.131	Input Volt.: 100V, Load Current:2.1A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:2.1A
Load Regulation [mV]	7	Input Volt.: 100V, Load Current:0.0～2.1A

COSEL

Model	LEA50F-24		
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	0.16	0.18	0.24
(B) IEC60950	0.16	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	LEA50F-24		
Item	Line Noise Tolerance 入力雑音耐量	Temperature Testing Circuitry	25℃ Figure C
Object	+24V2.1A		

1. Results

Pulse Width [nS]	MODE	No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

Conditions

Input Voltage :100 V
Pulse Voltage :2000 V
Pulse Cycle :10 mS
Pulse Input Duration:1 min. or more
Load :100 %

COSEL

Model	LEA50F-24		
Item	Conducted Emission 雑音端子電圧	Temperature Testing Circuitry	25℃ Figure D
Object	――――――		

1. Graph

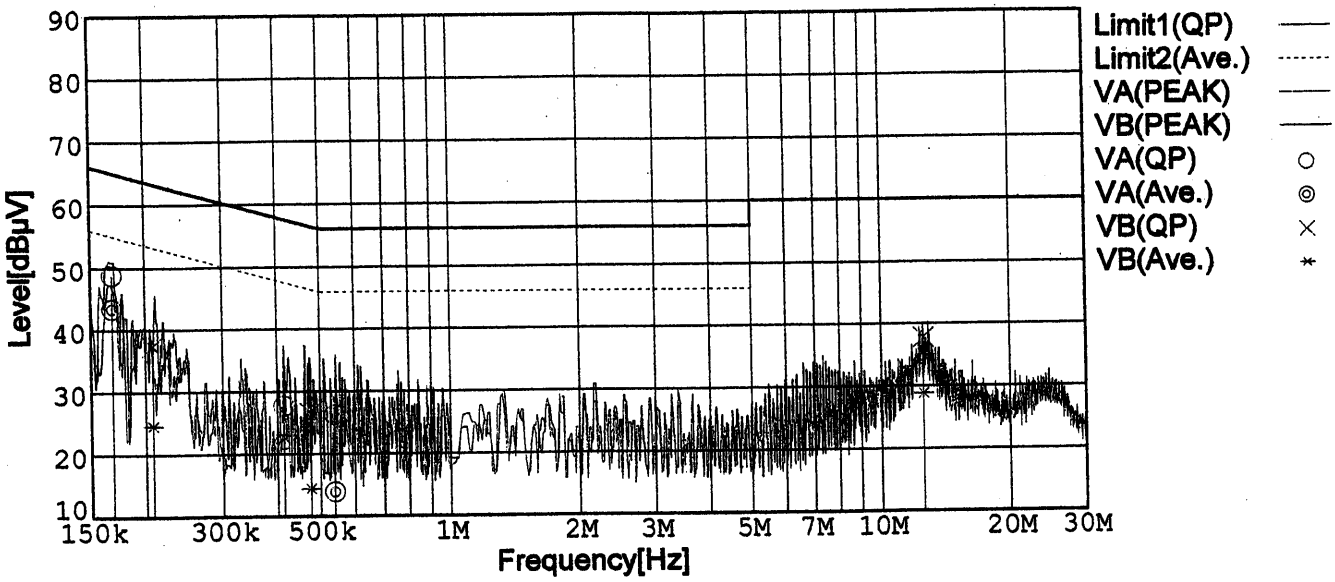
Remarks

Input Volt. 100V (VCCI Class B)

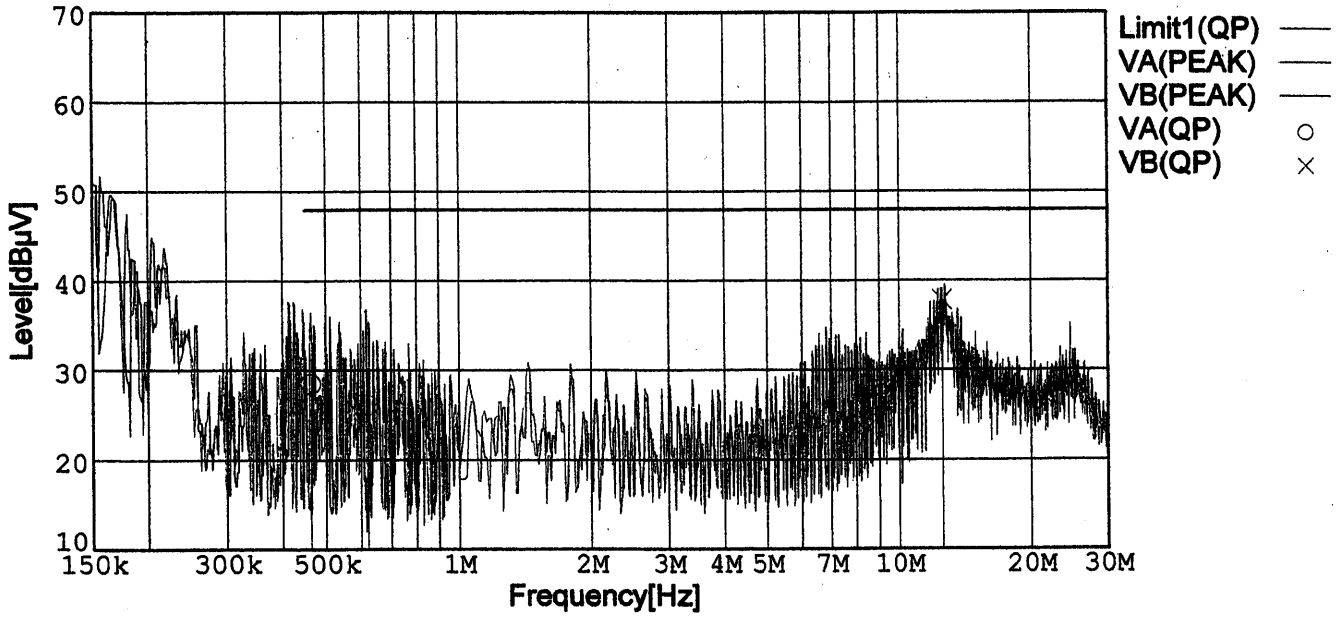
120V (FCC Class B)

Load 100 %

Limit1: [VCCI] Class B(QP)
Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B



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COSEL

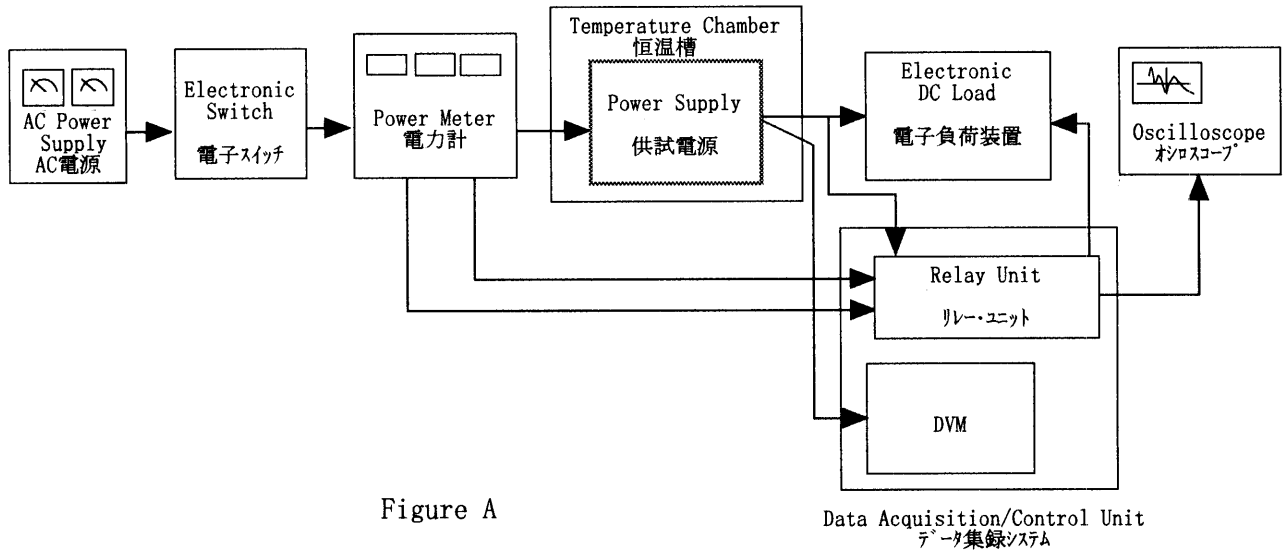

Figure A

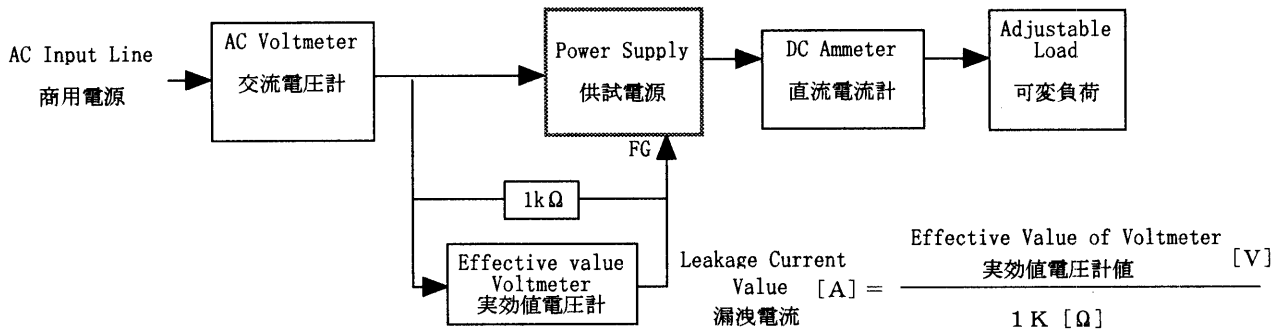

Figure B(DENTORI)

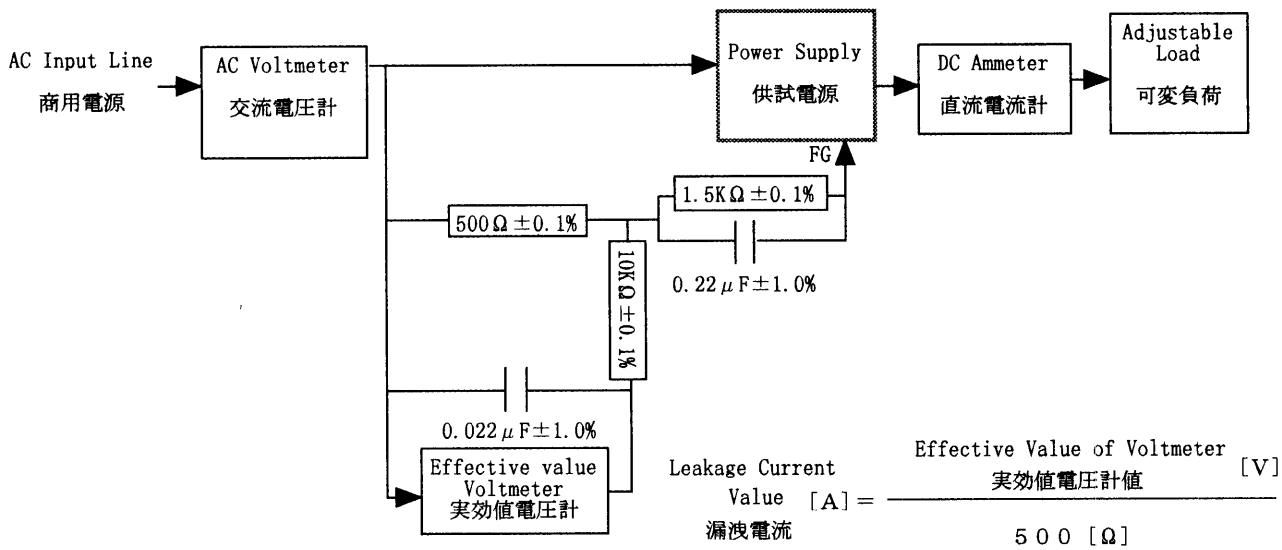

Figure B (IEC60950)

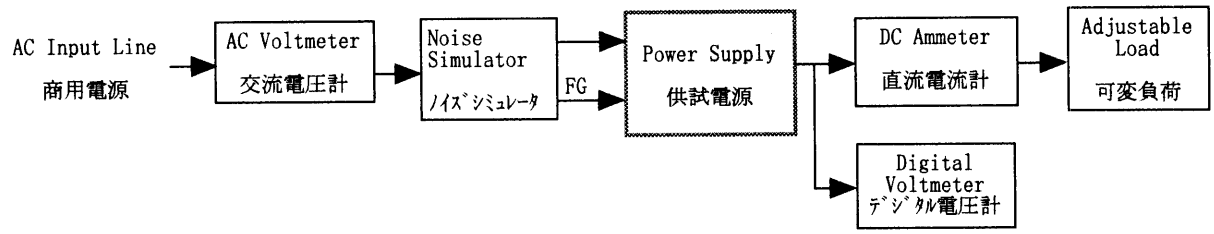

Figure C

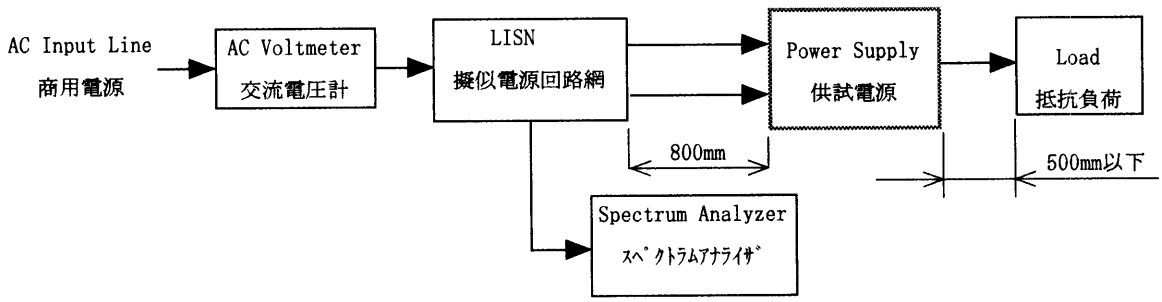

Figure D

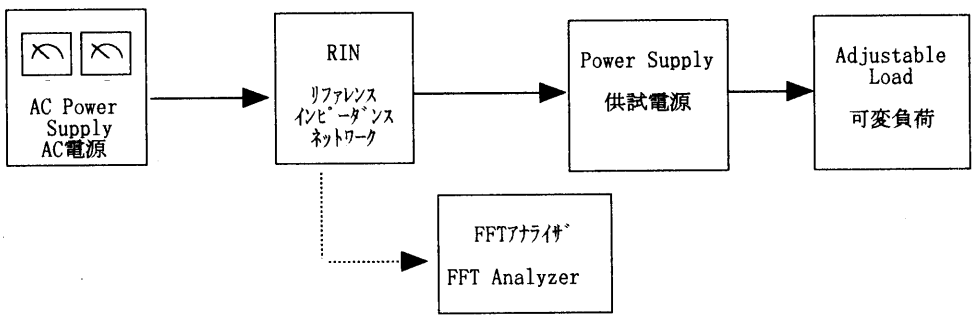

Figure E