参考資料

COSEL

TEST DATA OF LEA100F-24

(200V INPUT)

Regulated DC Power Supply

Date : Feb.9. 1999

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コーセル株式会社

COSEL CO.,LTD.

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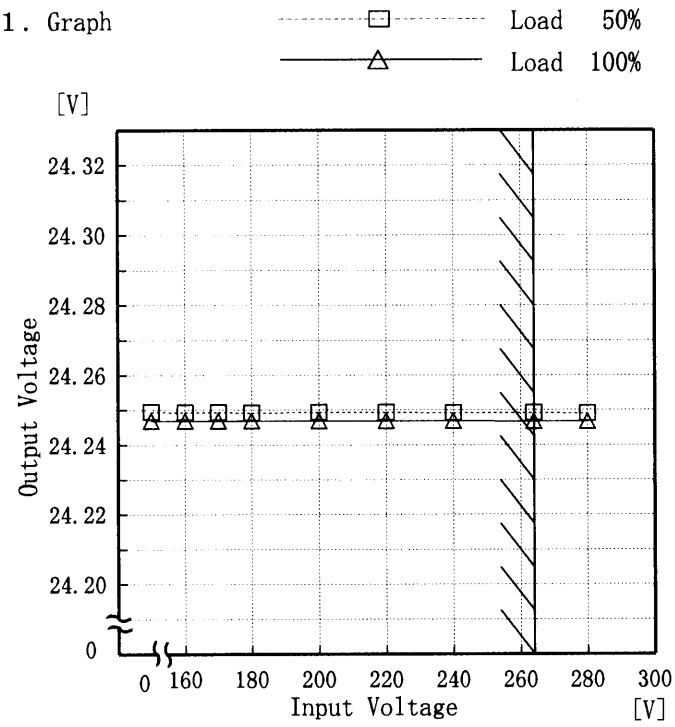
Model	LEA100F-24
Item	Line Regulation 静的入力変動
Object	+24V4.3A

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]
150	24.249	24.247
160	24.249	24.247
170	24.249	24.247
180	24.249	24.247
200	24.249	24.247
220	24.249	24.247
240	24.249	24.247
264	24.249	24.247
280	24.249	24.247

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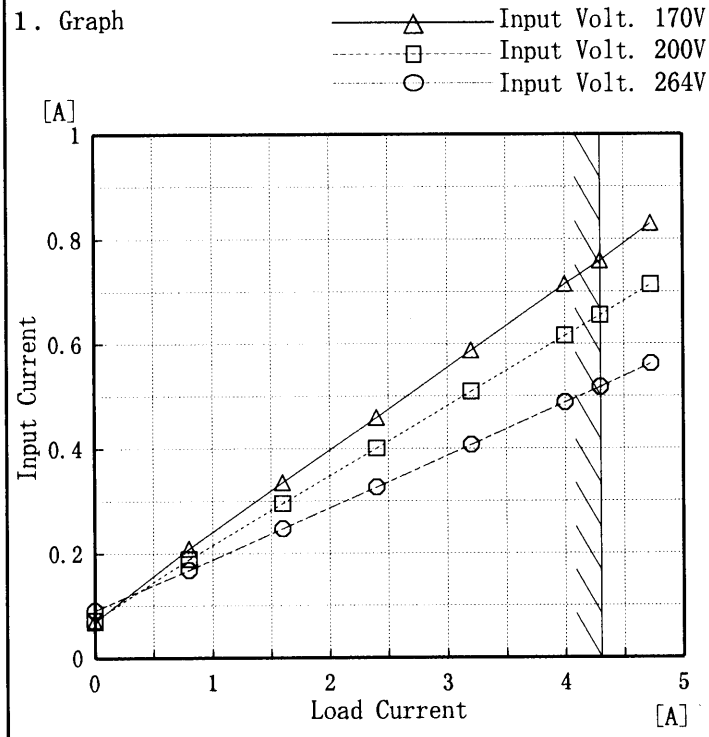
Model	LEA100F-24
Item	Input Current (by Load Current) 入力電流 (負荷特性)
Output	————

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

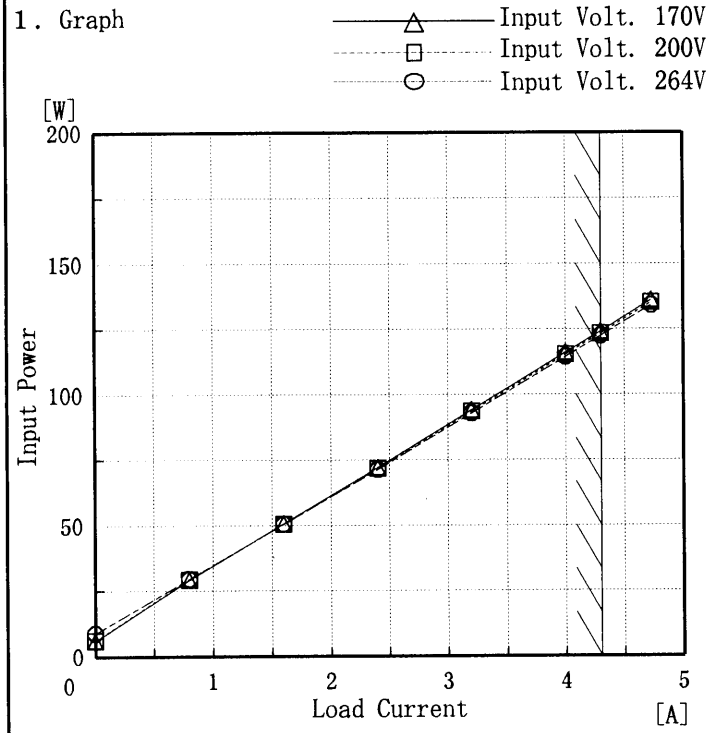
Load Current [A]	Input Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.069	0.072	0.091
0.80	0.209	0.189	0.168
1.60	0.335	0.295	0.248
2.40	0.459	0.401	0.327
3.20	0.587	0.509	0.408
4.00	0.714	0.616	0.489
4.30	0.759	0.655	0.518
4.73	0.830	0.713	0.562
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA100F-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	Input Power [W]		
	Input Volt.	Input Volt.	Input Volt.
[A]	170[V]	200[V]	264[V]
0.00	6.00	6.20	8.80
0.80	29.30	29.40	29.60
1.60	50.80	50.60	50.60
2.40	72.10	71.80	71.40
3.20	94.10	93.60	93.00
4.00	116.10	115.40	114.50
4.30	124.00	123.30	122.40
4.73	136.10	135.20	134.10
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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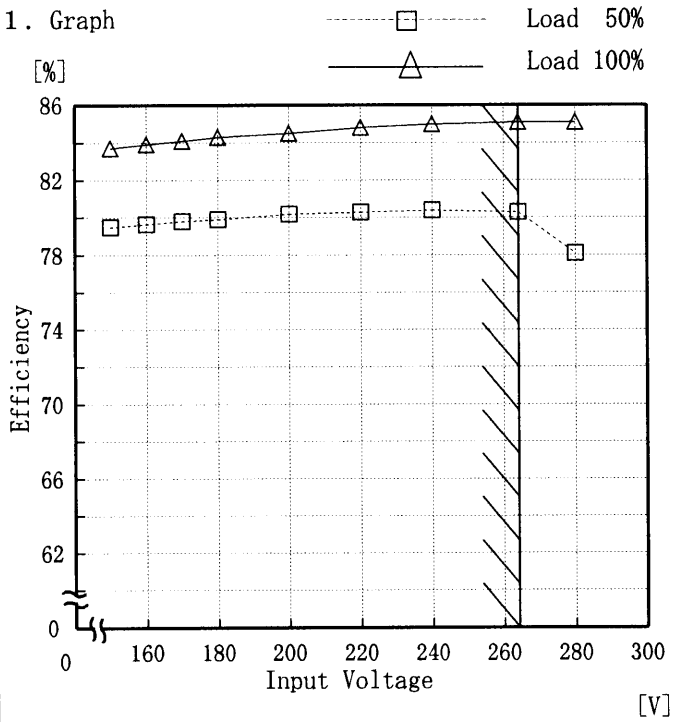
Model	LEA100F-24
Item	Efficiency (by Input Voltage) 効率（入力電圧特性）
Object	

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 [%]
150	79.5	83.7
160	79.6	83.9
170	79.8	84.1
180	79.9	84.3
200	80.2	84.5
220	80.3	84.8
240	80.4	85.0
264	80.3	85.1
280	78.1	85.1

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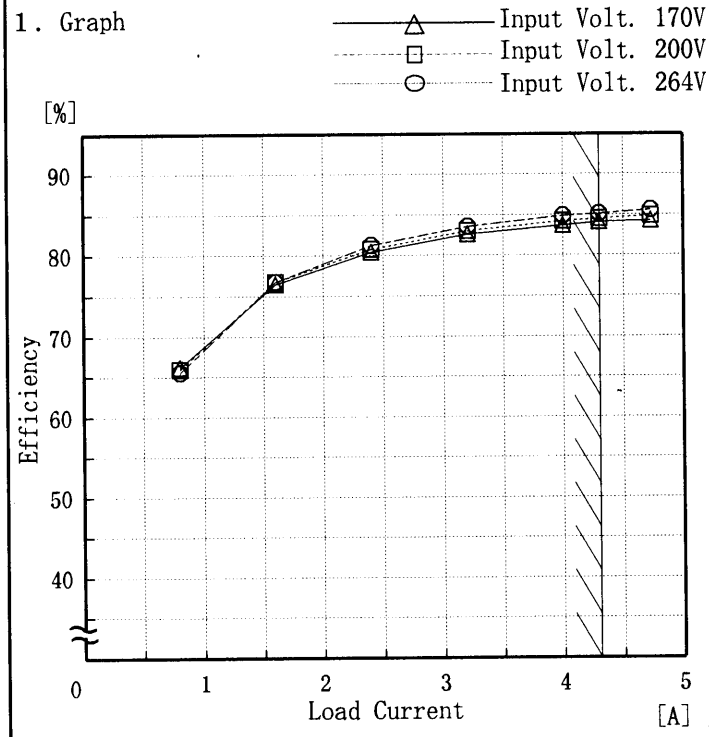
Model	LEA100F-24
Item	Efficiency (by Load Current) 効率 (負荷電流特性)
Output	————

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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.80	66.2	66.0	65.5
1.60	76.5	76.8	76.8
2.40	80.5	80.8	81.3
3.20	82.6	83.0	83.6
4.00	83.7	84.2	84.9
4.30	84.1	84.5	85.1
4.73	84.3	84.9	85.6
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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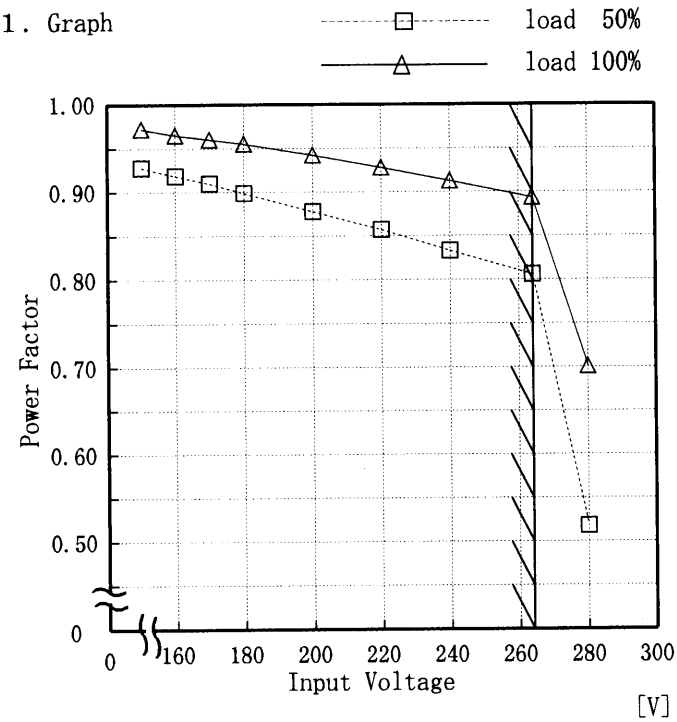
Model	LEA100F-24
Item	Power Factor (by Input Voltage) 力率（入力電圧特性）
Object	――――――――――

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
150	0.93	0.97
160	0.92	0.97
170	0.91	0.96
180	0.90	0.96
200	0.88	0.94
220	0.86	0.93
240	0.83	0.91
264	0.81	0.89
280	0.52	0.70

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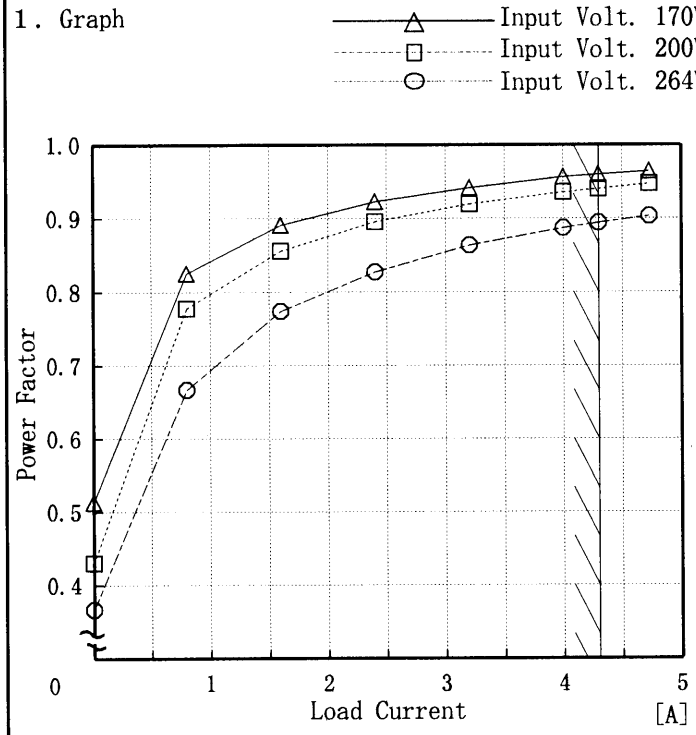
Model	LEA100F-24
Item	Power Factor (by Load Current) 力率 (負荷電流特性)
Output	————

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

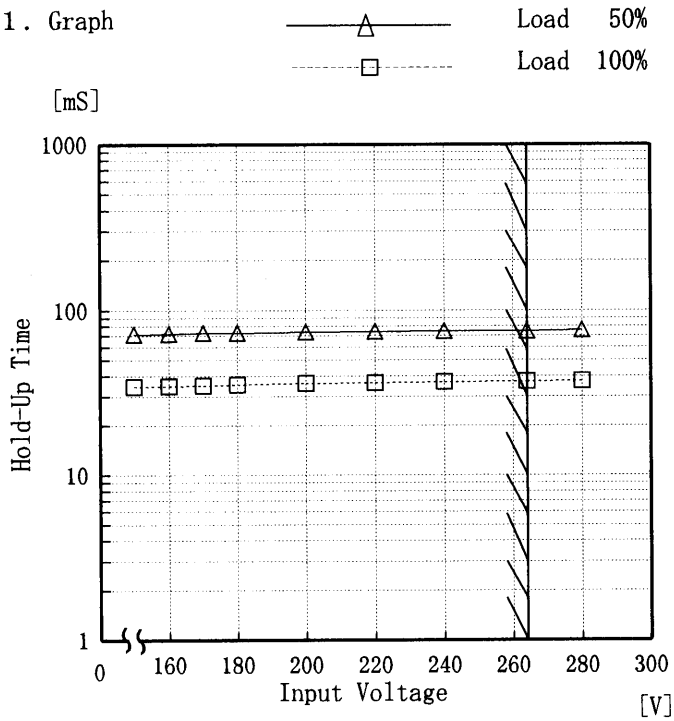
Load Current [A]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.51	0.43	0.37
0.80	0.83	0.78	0.67
1.60	0.89	0.86	0.77
2.40	0.92	0.90	0.83
3.20	0.94	0.92	0.86
4.00	0.96	0.94	0.89
4.30	0.96	0.94	0.89
4.73	0.96	0.95	0.90
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA100F-24
Item	Hold-Up Time 出力保持時間
Object	+24V4.3A

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]
150	72	34
160	72	35
170	73	35
180	73	35
200	74	36
220	74	36
240	75	37
264	75	37
280	76	37

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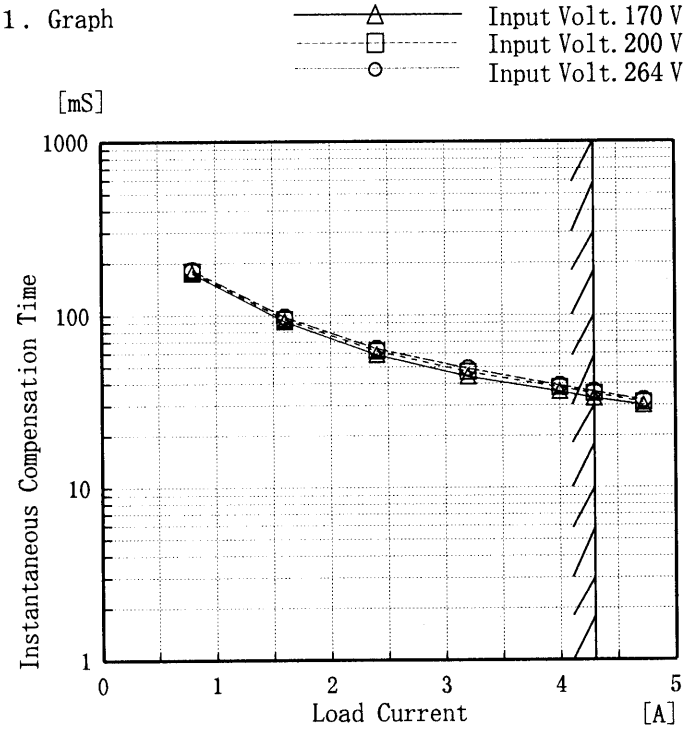
Model	LEA100F-24
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+24V4.3A

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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Time [mS]		
0.00	—	—	—
0.80	176	180	183
1.60	92	95	98
2.40	59	62	64
3.20	44	47	49
4.00	36	38	39
4.30	33	35	36
4.73	30	31	32
—	—	—	—
—	—	—	—
—	—	—	—

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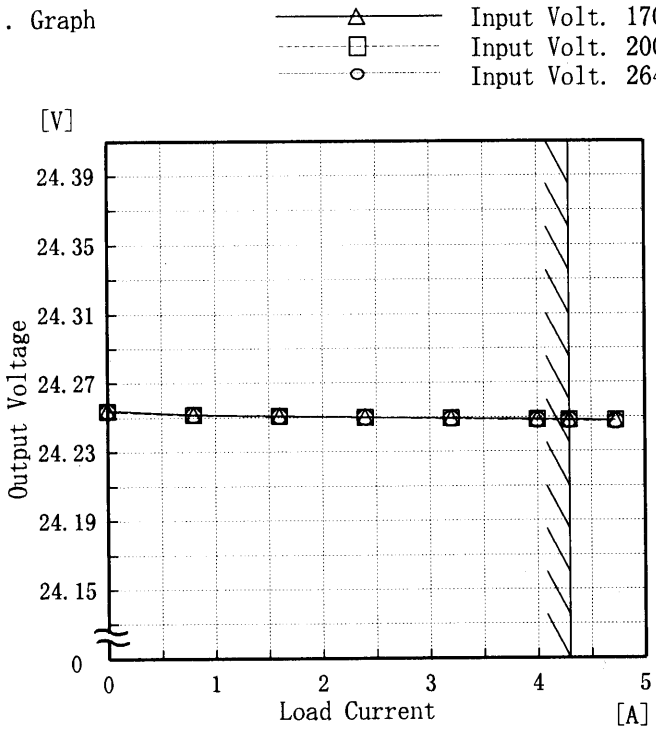
Model	LEA100F-24		
Item	Load Regulation 静的負荷変動	Temperature	25℃
		Testing Circuitry	Figure A
Object	+24V4.3A		

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. 170[V] Output Volt. [V]	Input Volt. 200[V] Output Volt. [V]	Input Volt. 264[V] Output Volt. [V]
0.00	24.254	24.254	24.254
0.80	24.252	24.252	24.252
1.60	24.251	24.251	24.251
2.40	24.250	24.250	24.250
3.20	24.249	24.249	24.249
4.00	24.249	24.249	24.248
4.30	24.248	24.248	24.248
4.73	24.248	24.248	24.248
—	—	—	—
—	—	—	—

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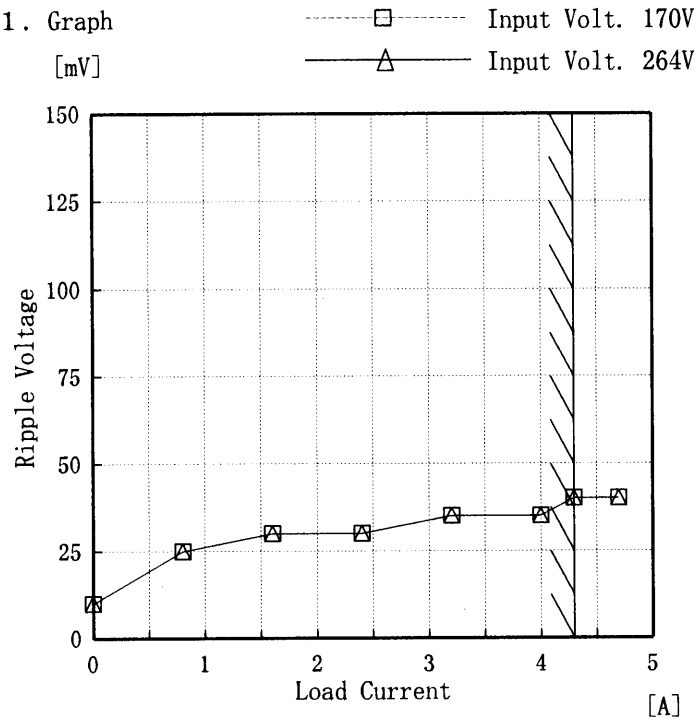
COSEL

Model	LEA100F-24	
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)	Temperature 25℃ Testing Circuitry Figure A
Object	+24V4.3A	

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

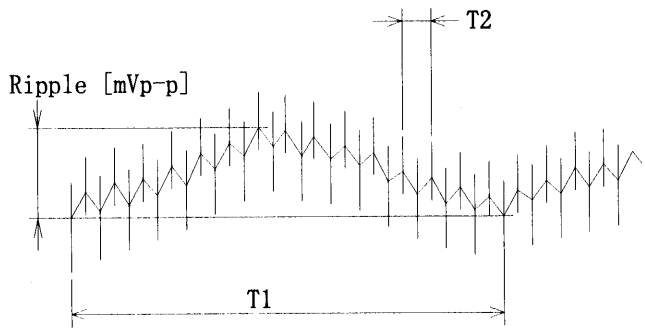


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Input Volt. 170 [V] Ripple Output Volt. [mV]	Input Volt. 264 [V] Ripple Output Volt. [mV]
0.0	10	10
0.8	25	25
1.6	30	30
2.4	30	30
3.2	35	35
4.0	35	35
4.3	40	40
4.7	40	40
—	—	—
—	—	—
—	—	—

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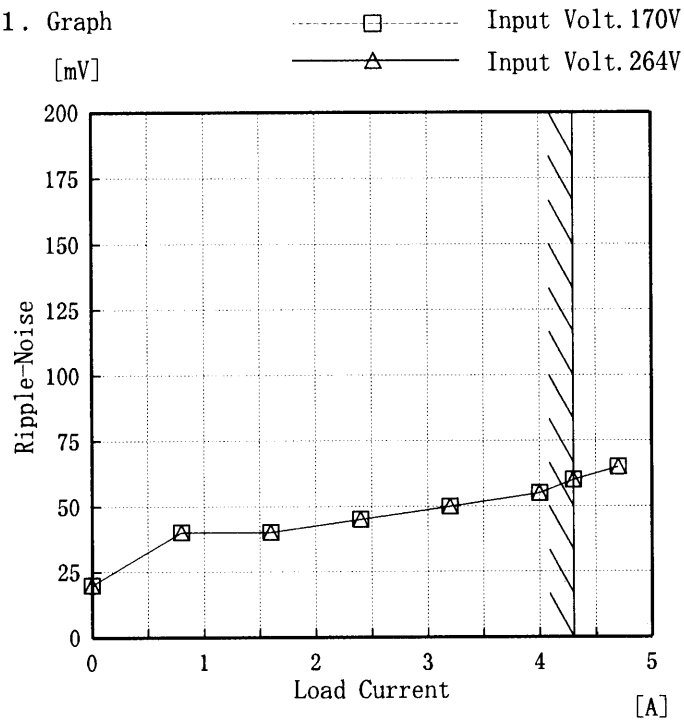
COSEL

Model	LEA100F-24
Item	Ripple-Noise　リップルノイズ
Object	+24V4.3A

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

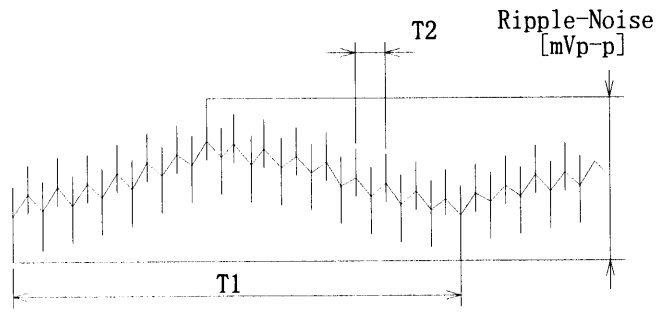


Fig. Complex Ripple Wave Form
図　リップル波形詳細図

2. Values

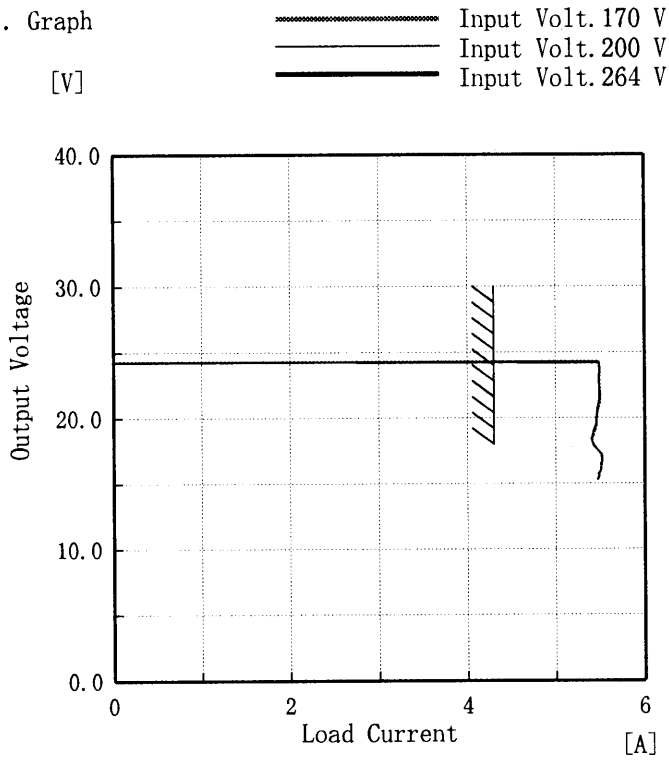
Load current [A]	Input Volt. 170 [V] Ripple-Noise [mV]	Input Volt. 264 [V] Ripple-Noise [mV]
0.0	20	20
0.8	40	40
1.6	40	40
2.4	45	45
3.2	50	50
4.0	55	55
4.3	60	60
4.7	65	65
—	—	—
—	—	—
—	—	—

COSEL

Model	LEA100F-24
Item	Overcurrent Protection 過電流保護
Object	+24V4.3A

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。
16.8V以下は間欠状態。

2. Values

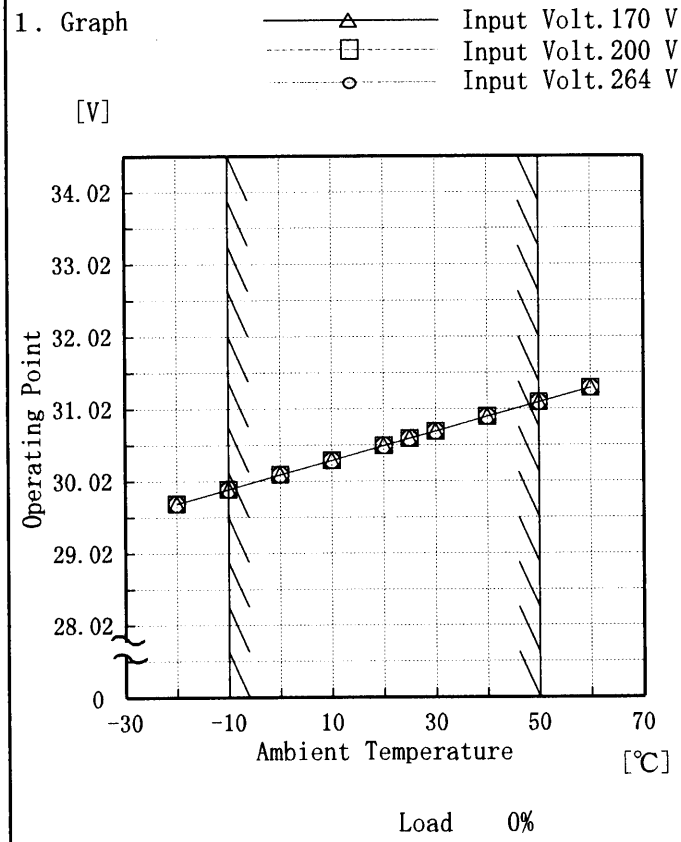
Output Voltage [V]	Input Volt. 170[V] Load Current [A]	Input Volt. 200[V] Load Current [A]	Input Volt. 264[V] Load Current [A]
24.00	5.48	5.48	5.49
22.80	5.49	5.48	5.49
21.60	5.50	5.49	5.49
19.20	5.45	5.44	5.44
16.80	5.52	5.52	5.52
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA100F-24
Item	Overvoltage Protection 過電圧保護
Object	+24V4.3A

Testing Circuitry Figure A

1. Graph



Load 0%

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

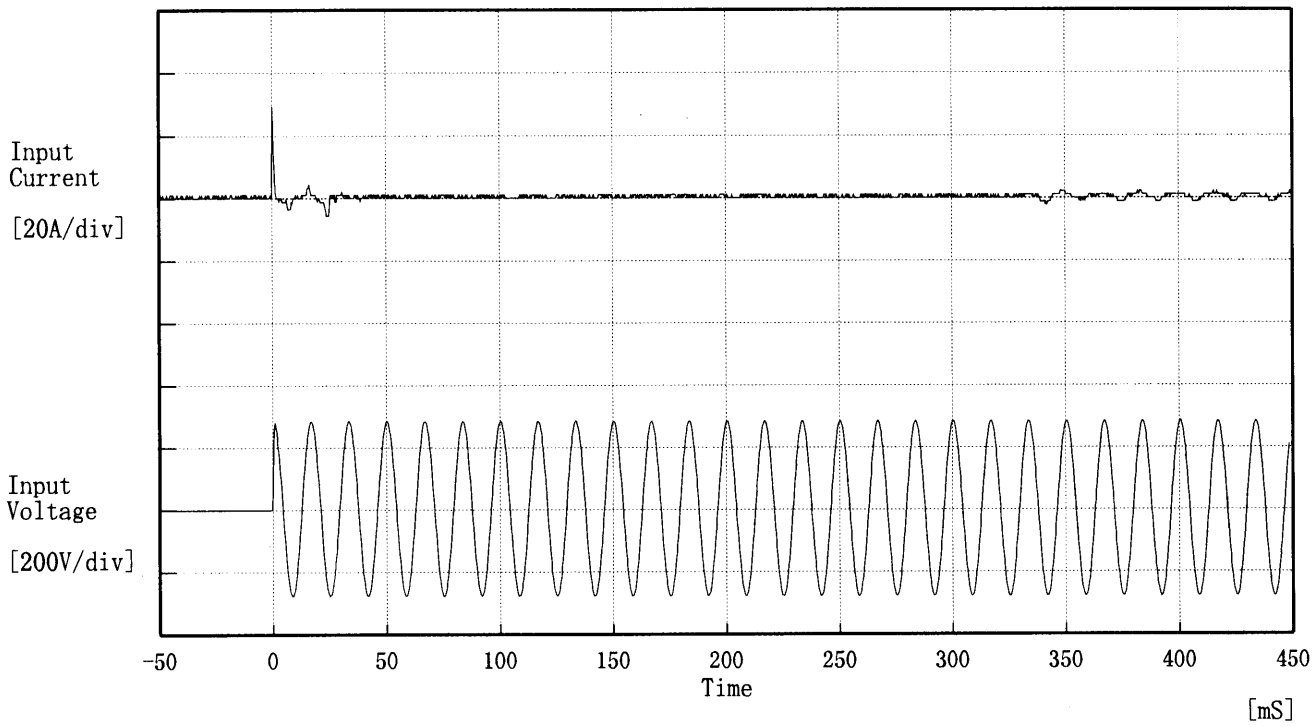
(注)斜線は定格周囲温度範囲を示す。

2. Values

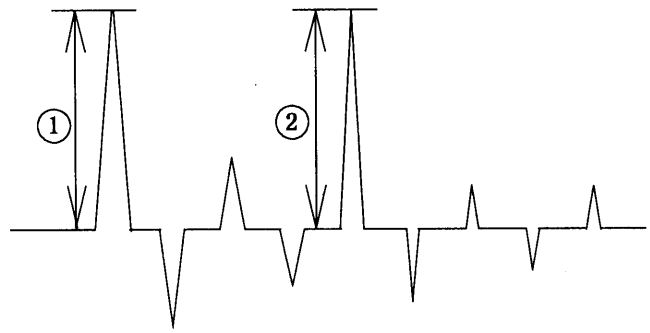
Ambient Temp. [℃]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Operating Point [V]		
-20	29.7	29.7	29.7
-10	29.9	29.9	29.9
0	30.1	30.1	30.1
10	30.3	30.3	30.3
20	30.5	30.5	30.5
25	30.6	30.6	30.6
30	30.7	30.7	30.7
40	30.9	30.9	30.9
50	31.1	31.1	31.1
60	31.3	31.3	31.3
—	—	—	—

COSEL

Model	LEA100F-24		
Item	Inrush Current 突入電流	Temperature	25℃
		Testing Circuitry	Figure A
Object	――――――――		



Input Voltage 200 V
Frequency 60 Hz
Load 100 %
Inrush Current
① 29.15 [A]
② 2.25 [A]



BC－3167

COSEL

Model	LEA100F-24		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+24V4.3A		

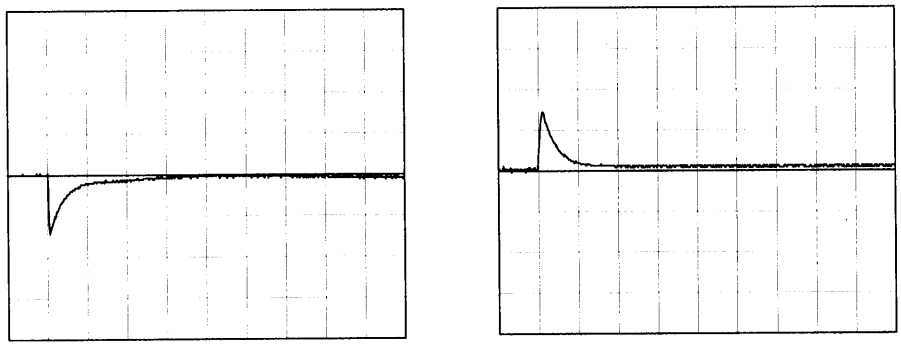
Input Volt. 200 V

Cycle 1000 mS

Load Current

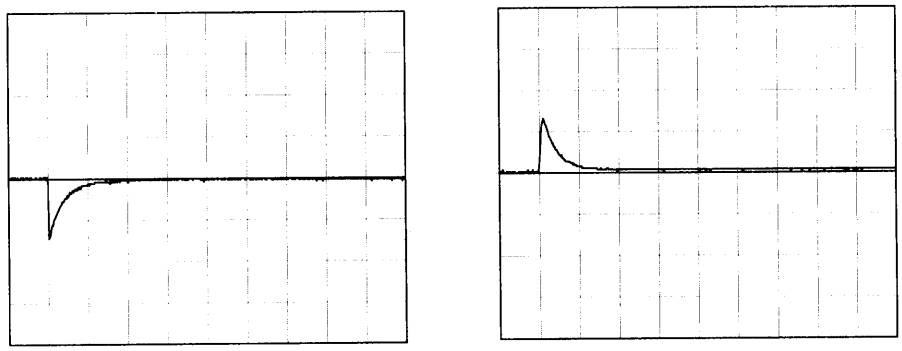
Min. Load ⟷

Load 100 %



Min. Load ⟷

Load 50 %



100 mV/div

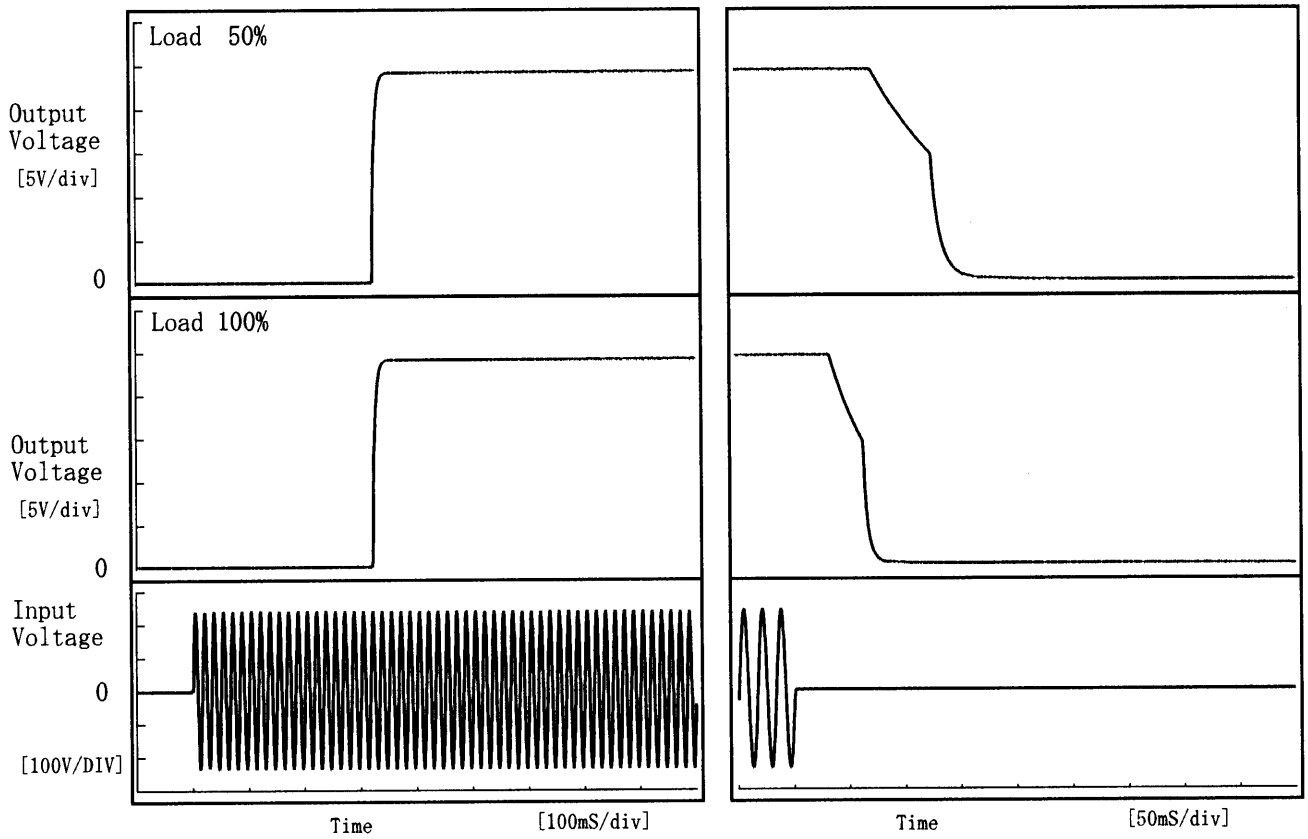
10 ms/div

COSEL

Model	LEA100F-24		
Item	Rise and Fall Time 立上り、立下り時間	Temperature	25℃
		Testing Circuitry	Figure A
Object	+24V4.3A		

1. Graph

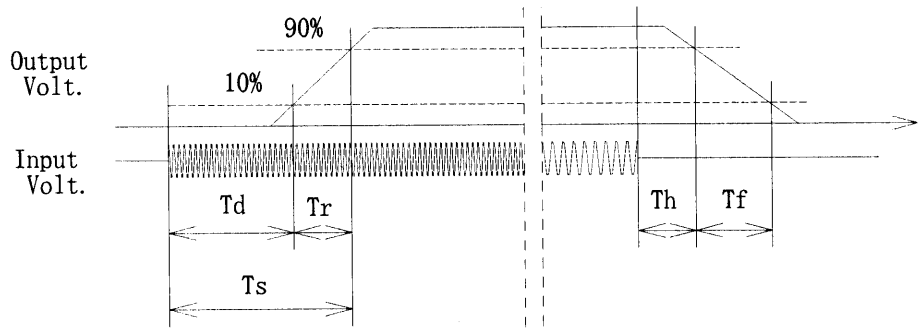
Input Volt. 170 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	322.0	9.5	331.5	83.5	57.8
100 %	322.0	10.0	332.0	40.3	31.5



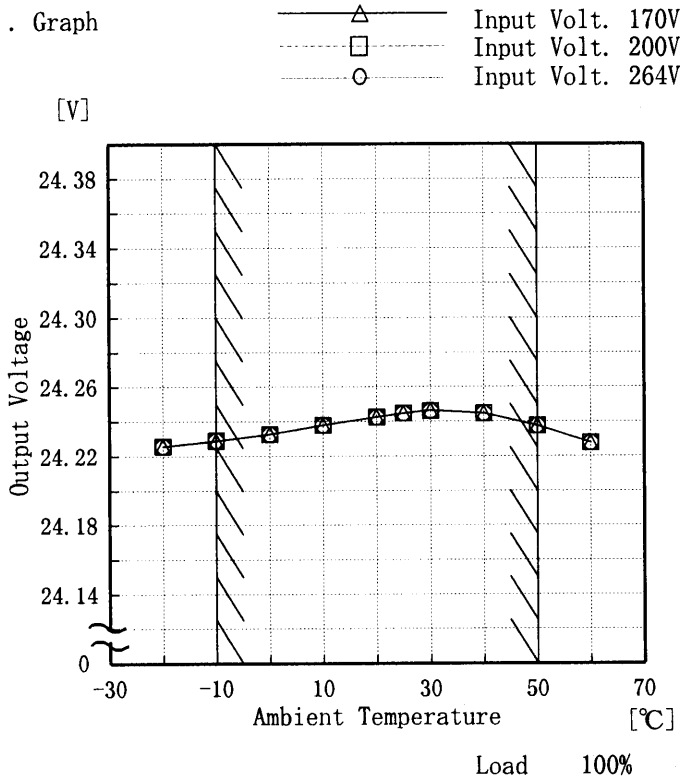
BC−3167

COSEL

Model	LEA100F-24
Item	Ambient Temperature Drift 周囲温度変動
Object	+24V4.3A

Testing Circuitry Figure A

1. Graph



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

(注)斜線は定格周囲温度範囲を示す。

2. Values

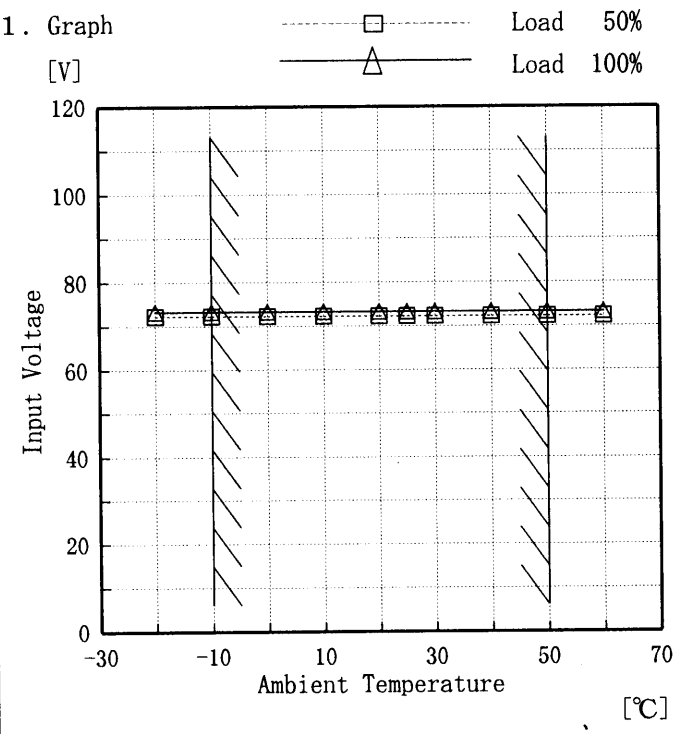
Temperature [℃]	Input Volt. 170[V] Output Volt. [V]	Input Volt. 200[V] Output Volt. [V]	Input Volt. 264[V] Output Volt. [V]
-20	24.226	24.226	24.226
-10	24.229	24.229	24.229
0	24.233	24.233	24.233
10	24.238	24.238	24.238
20	24.243	24.243	24.242
25	24.245	24.245	24.245
30	24.246	24.246	24.246
40	24.245	24.245	24.245
50	24.238	24.237	24.237
60	24.228	24.228	24.228
—	—	—	—

COSEL

Model	LEA100F-24
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+24V4.3A

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

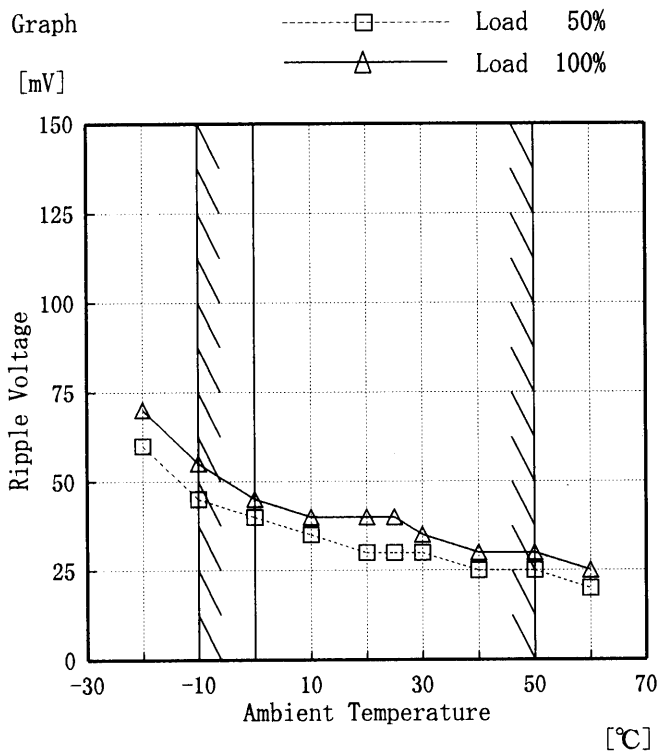
Ambient Temp. [℃]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	72	73
-10	72	73
0	72	73
10	72	73
20	72	73
25	72	73
30	72	73
40	72	73
50	72	73
60	72	73
—	—	—

COSEL

Model	LEA100F-24
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）
Object	+24V4.3A

Testing Circuitry Figure A

1. Graph



Input Volt. 200 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

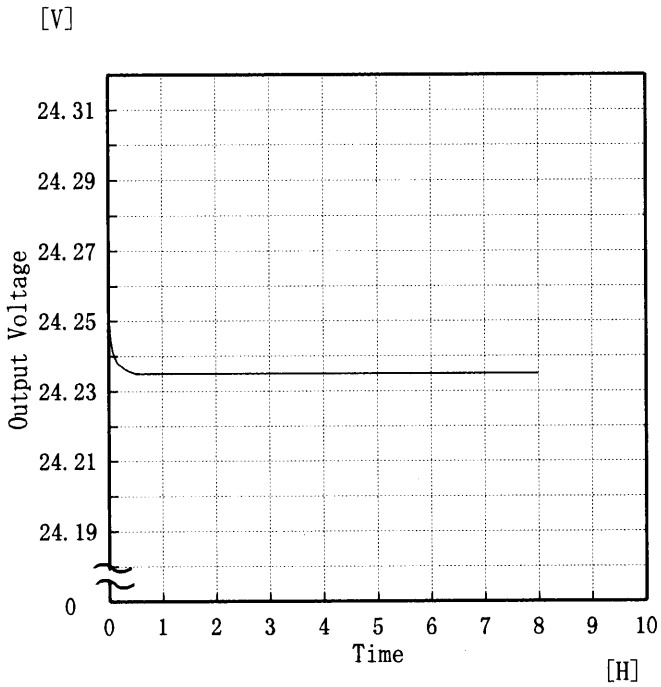
Ambient Temp. [℃]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]
-20	60	70
-10	45	55
0	40	45
10	35	40
20	30	40
25	30	40
30	30	35
40	25	30
50	25	30
60	20	25
—	—	—

COSEL

Model	LEA100F-24
Item	Time Lapse Drift 経時ドリフト
Object	+24V4.3A

Temperature 25 ℃
Testing Circuitry Figure A

1. Graph



Input Volt. 200V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	24.256
0.5	24.235
1.0	24.235
2.0	24.235
3.0	24.235
4.0	24.235
5.0	24.235
6.0	24.235
7.0	24.235
8.0	24.235

COSEL

Model	LEA100F-24	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+24V4.3A	

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 : 170～264 V
Load Current : 0.00～4.30 A

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

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

定電圧精度

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

周囲温度 -10～50 ℃
入力電圧 170～264 V
負荷電流 0.00～4.30 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

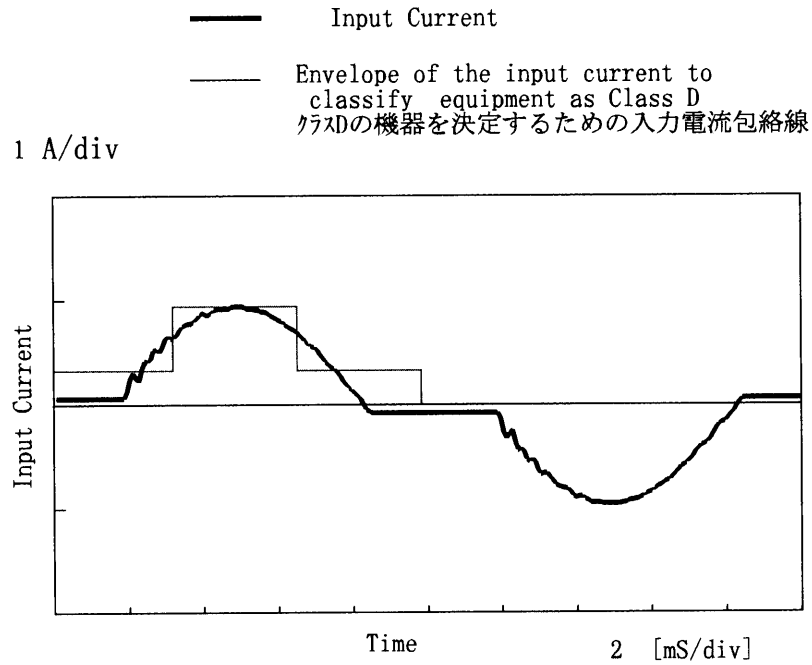
$$\text{* 定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	264	0.00	24.254	±13	±0.1
Minimum Voltage	-10	264	4.30	24.229		

COSEL

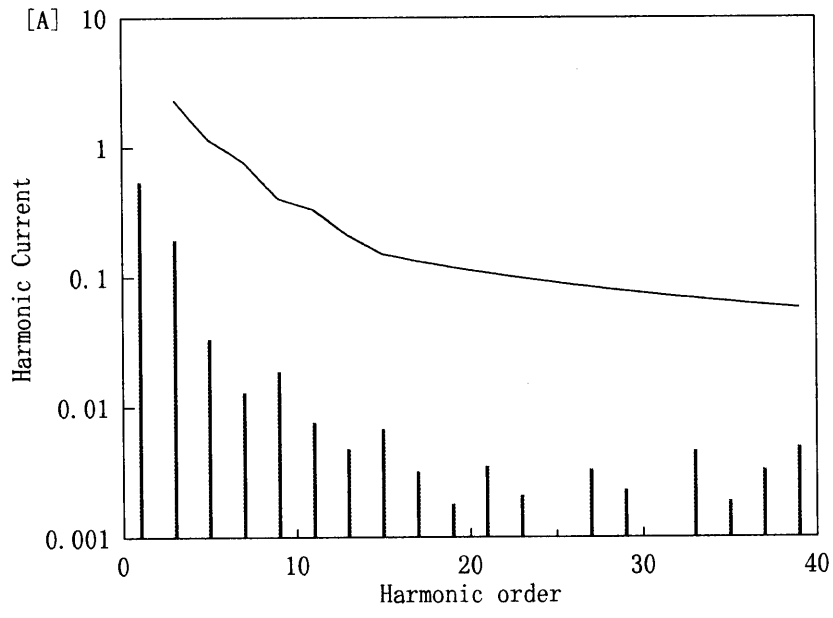
Model	LEA100F-24		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	————		

1. Input Current Waveform



Conditions	Values
Input Voltage [V]	230
Input Current [A]	0.58
Active Power [W]	123.3
Apparent Power[VA]	133.6
Frequency [Hz]	50
Power Factor	0.923
Output Power [W]	103.2

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	—	0.54490
2	—	0.00060
3	2.30000	0.19420
4	—	0.00010
5	1.14000	0.03370
6	—	0.00000
7	0.77000	0.01300
8	—	0.00010
9	0.40000	0.01880
10	—	0.00010
11	0.33000	0.00760
12	—	0.00010
13	0.21000	0.00480
14	—	0.00010
15	0.15000	0.00680
16	—	0.00000
17	0.13235	0.00320
18	—	0.00000
19	0.11842	0.00180
20	—	0.00010
21	0.10714	0.00350
22	—	0.00010
23	0.09783	0.00210
24	—	0.00000
25	0.09000	0.00060
26	—	0.00010
27	0.08333	0.00330
28	—	0.00000
29	0.07759	0.00230
30	—	0.00010
31	0.07258	0.00090
32	—	0.00000
33	0.06818	0.00460
34	—	0.00000
35	0.06429	0.00190
36	—	0.00000
37	0.06081	0.00330
38	—	0.00000
39	0.05769	0.00490
40	—	0.00010

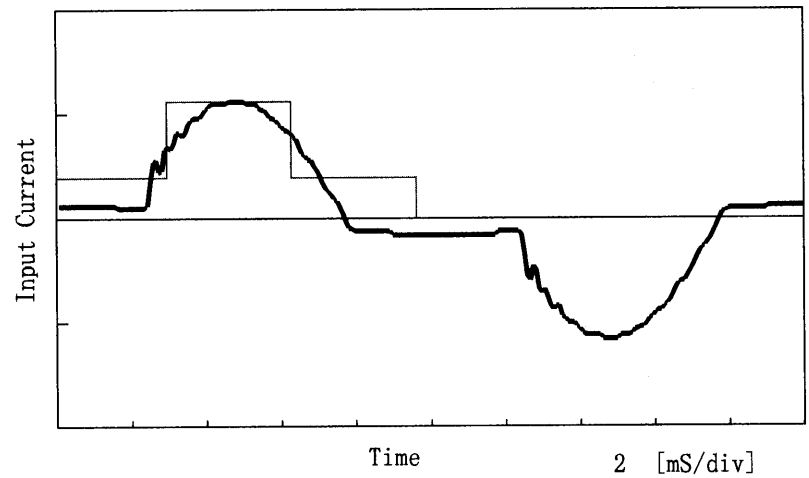
COSEL

Model	LEA100F-24		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	————		

1. Input Current Waveform

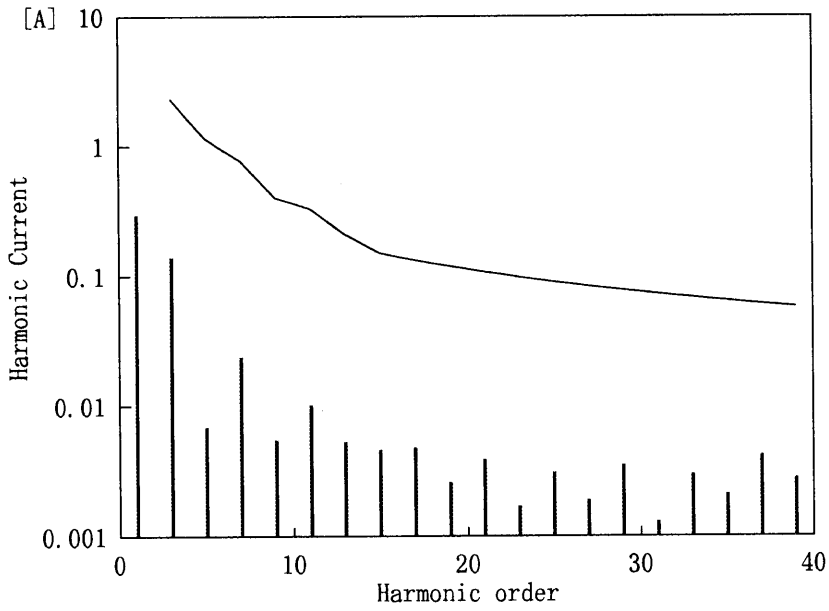
——— Input Current

——— 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



Conditions	Values
Input Voltage [V]	230.6
Input Current [A]	0.328
Active Power [W]	65.5
Apparent Power[VA]	75.9
Frequency [Hz]	50
Power Factor	0.863
Output Power [W]	51.6

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	—	0.29540
2	—	0.00040
3	2.29402	0.14060
4	—	0.00000
5	1.13703	0.00690
6	—	0.00010
7	0.76800	0.02390
8	—	0.00010
9	0.39896	0.00550
10	—	0.00010
11	0.32914	0.01020
12	—	0.00000
13	0.20945	0.00530
14	—	0.00010
15	0.14961	0.00460
16	—	0.00000
17	0.13201	0.00480
18	—	0.00010
19	0.11811	0.00260
20	—	0.00010
21	0.10686	0.00390
22	—	0.00000
23	0.09757	0.00170
24	—	0.00010
25	0.08977	0.00310
26	—	0.00010
27	0.08312	0.00190
28	—	0.00010
29	0.07738	0.00350
30	—	0.00010
31	0.07239	0.00130
32	—	0.00000
33	0.06800	0.00300
34	—	0.00010
35	0.06412	0.00210
36	—	0.00010
37	0.06065	0.00420
38	—	0.00000
39	0.05754	0.00280
40	—	0.00010

COSEL

Model	LEA100F-24	
Item	Condensation 結露特性	Testing Circuitry Figure A
Object	+24V4.3A	

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]	24.249	Input Volt.: 200V, Load Current:4.3A
Line Regulation [mV]	1	Input Volt.: 170～264V, Load Current:4.3A
Load Regulation [mV]	6	Input Volt.: 200V, Load Current:0.0～4.3A

COSEL

Model	LEA100F-24	
Item	Leakage Current 漏洩電流	Temperature 25℃ 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	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.31	0.43	0.49

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	LEA100F-24	
Item	Line Noise Tolerance 入力雑音耐量	Temperature 25℃ Testing Circuitry Figure C
Object	+24V4.3A	

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

COSEL

Model	LEA100F-24		
Item	Conducted Emission 雑音端子電圧	Temperature Testing Circuitry	25℃ Figure D
Object	————————		

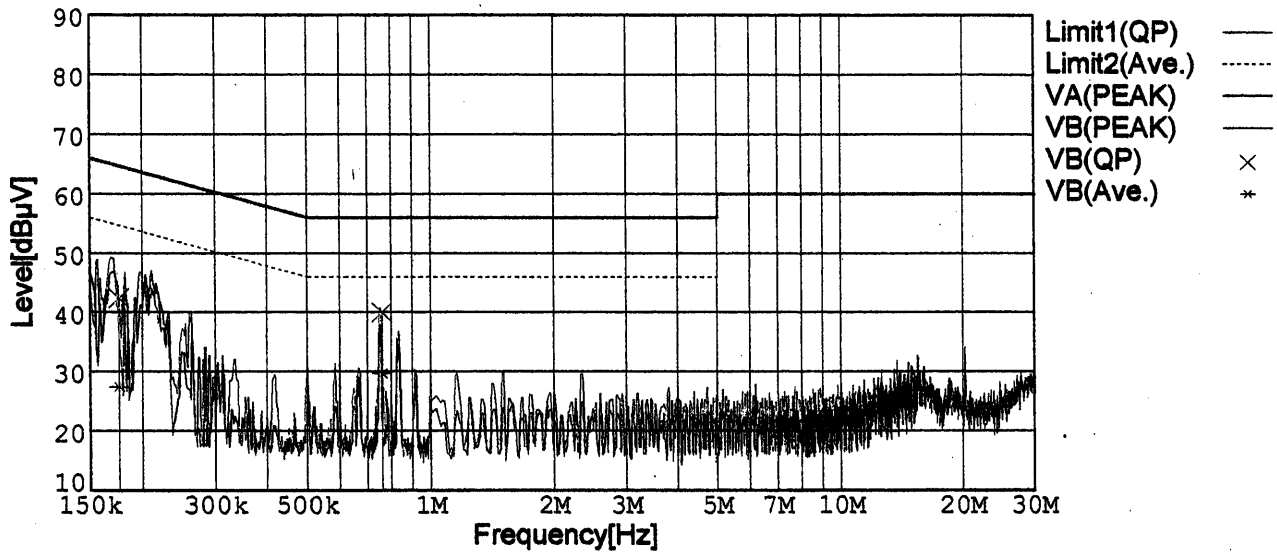
1. Graph

Remarks

Input Volt. 230V (CISPR Pub22 Class B)

Load 100 %

Limit1: [CISPR Pub22] Class B(QP)
Limit2: [CISPR Pub22] Class B(Ave.)



COSEL

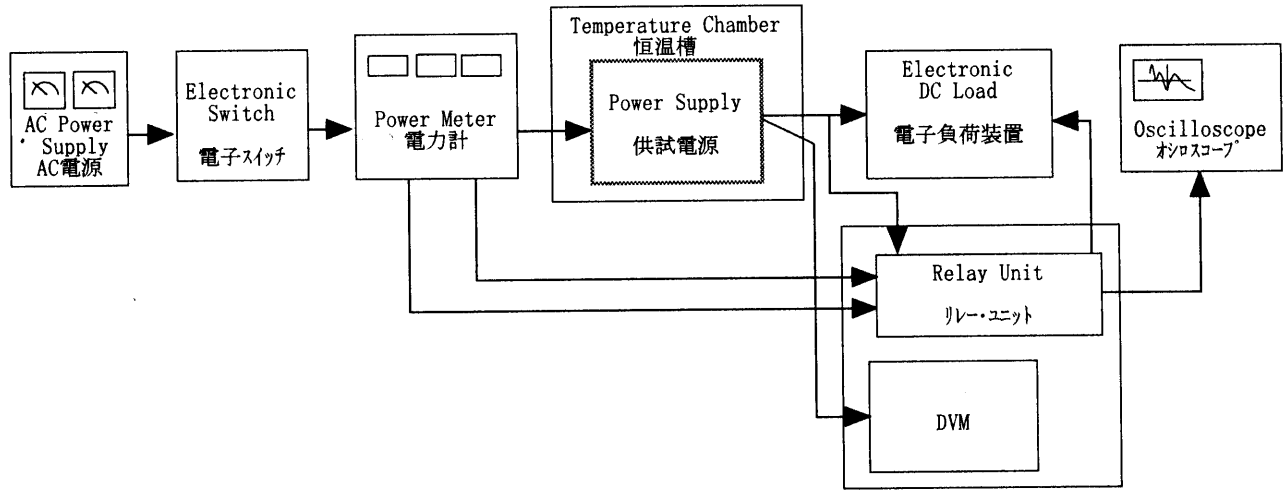


Figure A

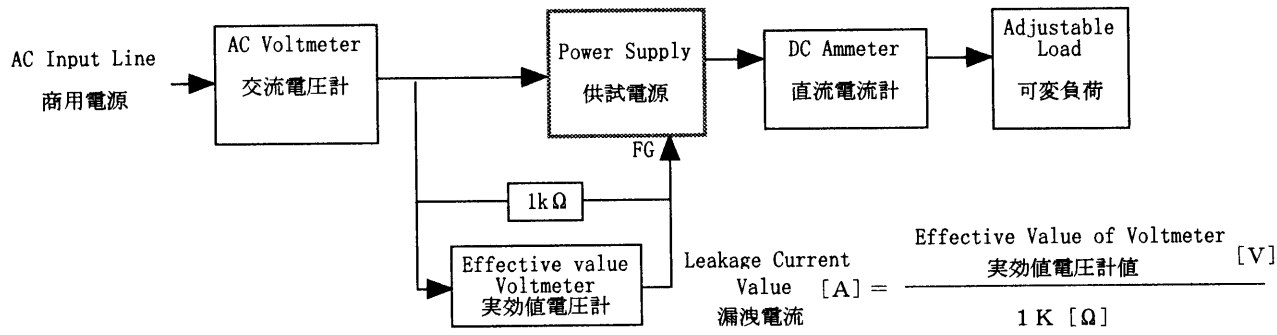


Figure B(DENTORI)

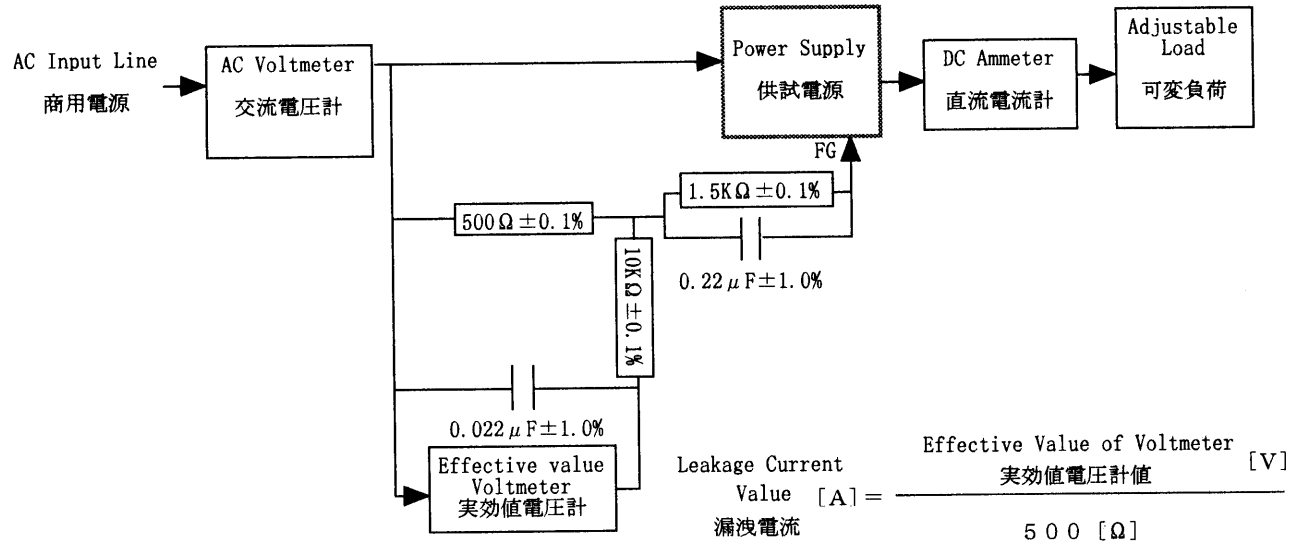


Figure B (IEC60950)

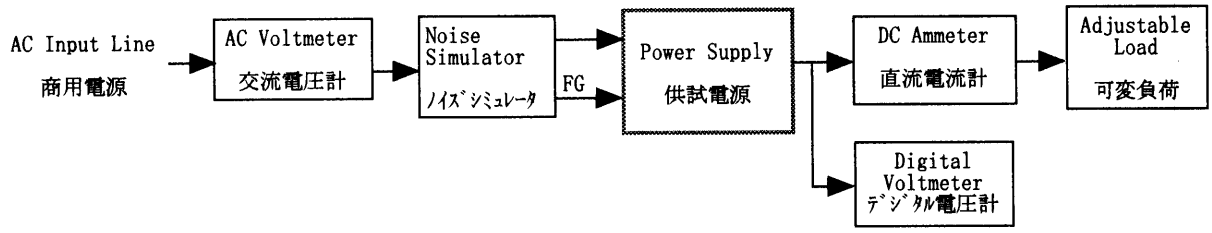


Figure C

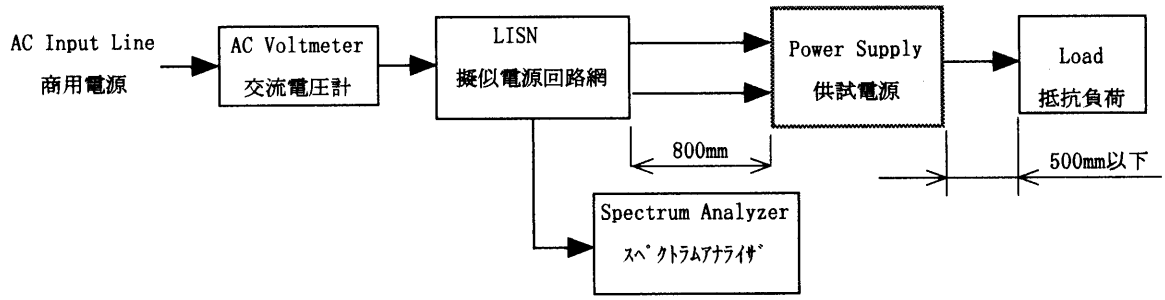


Figure D

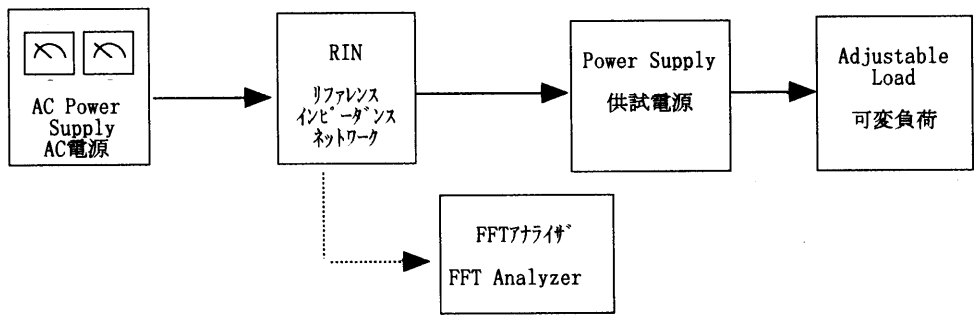


Figure E