参考資料

COSEL

TEST DATA OF LEA50F-48

(200V INPUT)

Regulated DC Power Supply

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コーセル株式会社

COSEL CO., LTD.

参考資料

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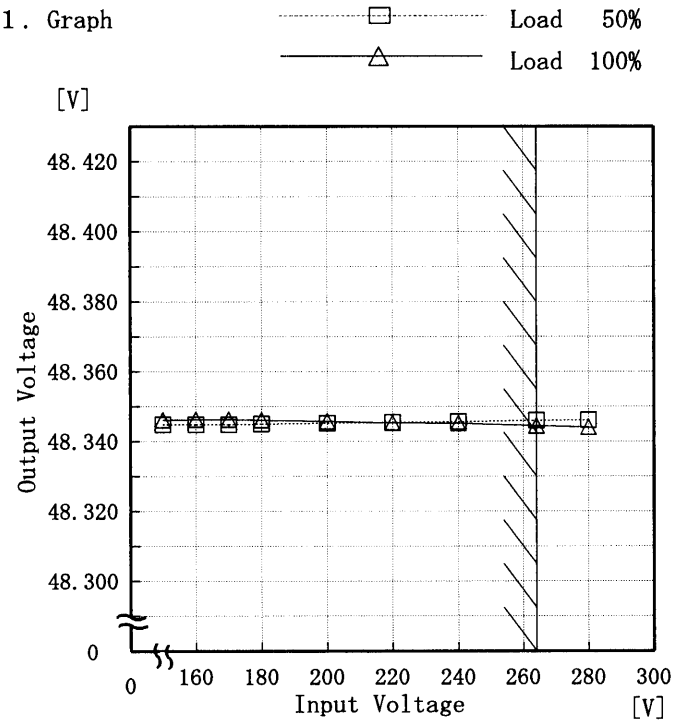
Model	LEA50F-48
Item	Line Regulation 静的入力変動
Object	+48.0V1.1A

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]	Output Voltage [V]	
	Load 50%	Load 100%
150	48.345	48.346
160	48.345	48.346
170	48.345	48.346
180	48.345	48.346
200	48.345	48.346
220	48.346	48.345
240	48.346	48.345
264	48.346	48.345
280	48.346	48.344

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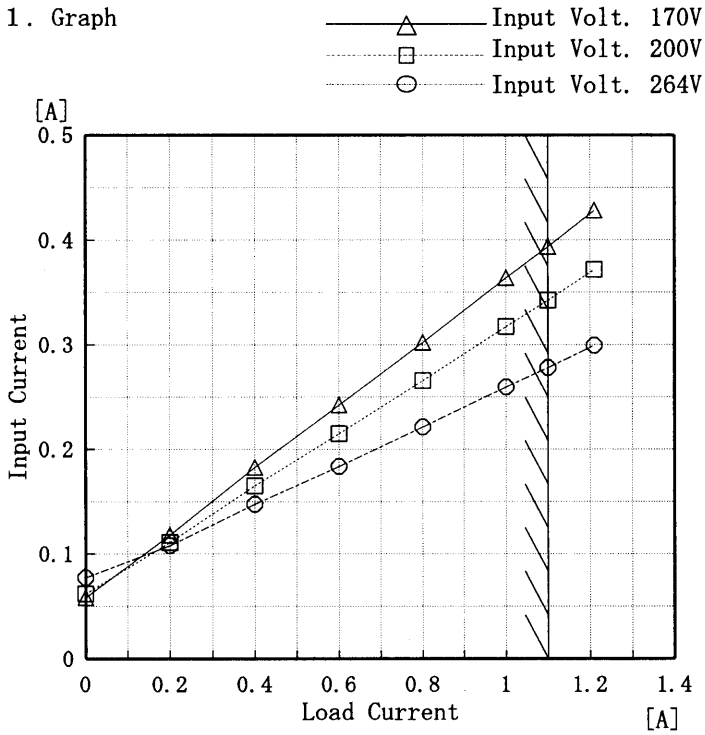
Model	LEA50F-48
Item	Input Current (by Load Current) 入力電流（負荷特性）
Output	――――

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

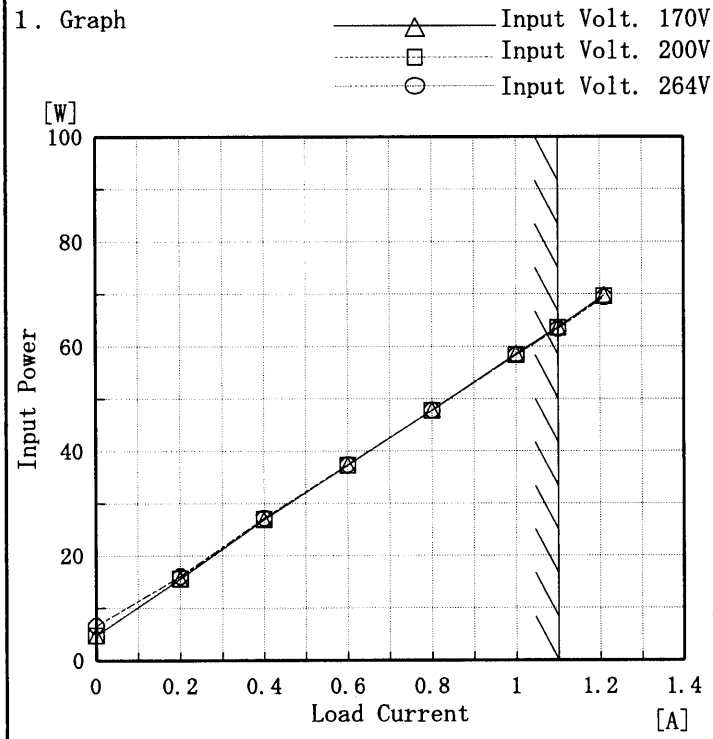
Load Current [A]	Input Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.058	0.062	0.078
0.20	0.118	0.111	0.108
0.40	0.183	0.165	0.148
0.60	0.242	0.215	0.184
0.80	0.302	0.266	0.221
1.00	0.364	0.317	0.260
1.10	0.394	0.343	0.278
1.21	0.428	0.372	0.300
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-48
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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	4.70	4.80	6.60
0.20	15.60	15.70	16.10
0.40	26.90	27.00	27.20
0.60	37.30	37.30	37.40
0.80	47.80	47.70	47.80
1.00	58.60	58.40	58.40
1.10	63.70	63.60	63.40
1.21	69.80	69.60	69.40
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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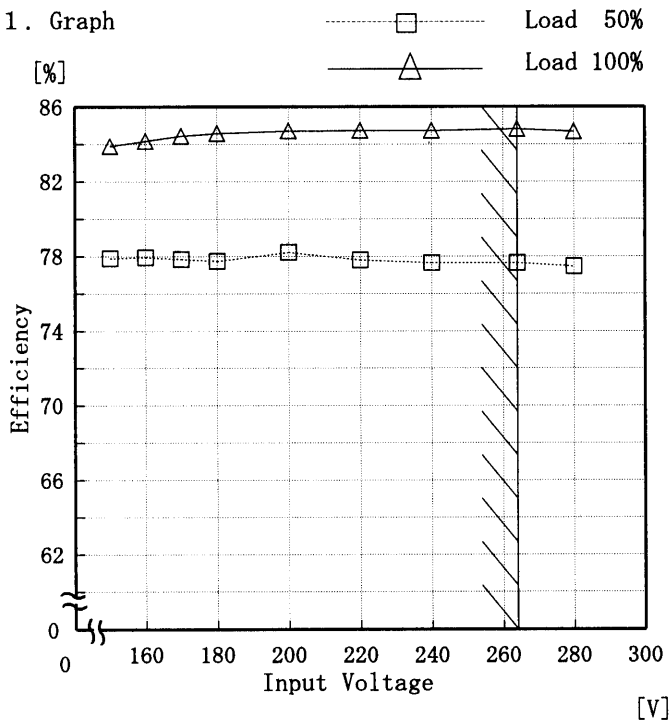
Model	LEA50F-48
Item	Efficiency (by Input Voltage) 効率（入力電圧特性）
Object	――――――――――――――

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%
150	77.9	83.9
160	77.9	84.2
170	77.8	84.4
180	77.7	84.6
200	78.2	84.7
220	77.8	84.7
240	77.6	84.7
264	77.6	84.8
280	77.5	84.7

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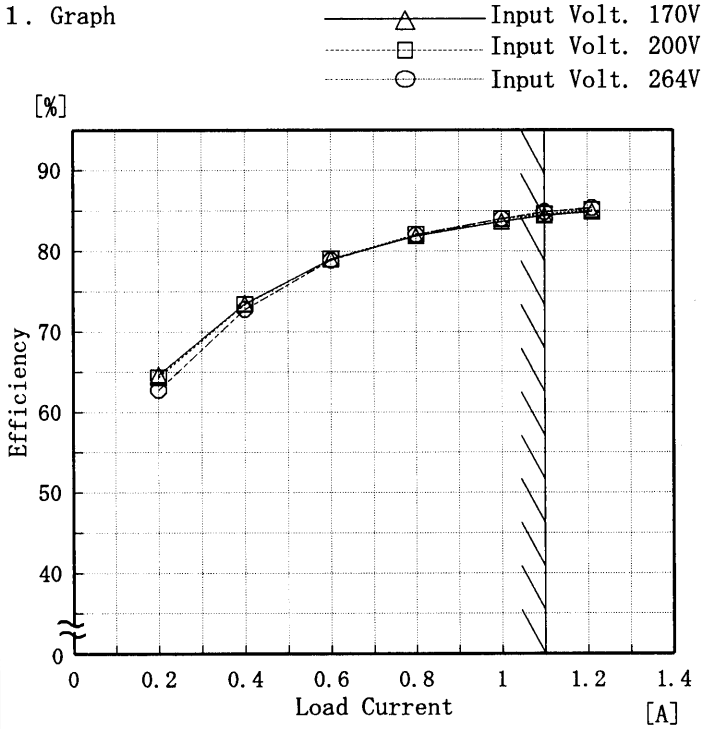
Model	LEA50F-48
Item	Efficiency (by Load Current) 効率（負荷特性）
Output	――――

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

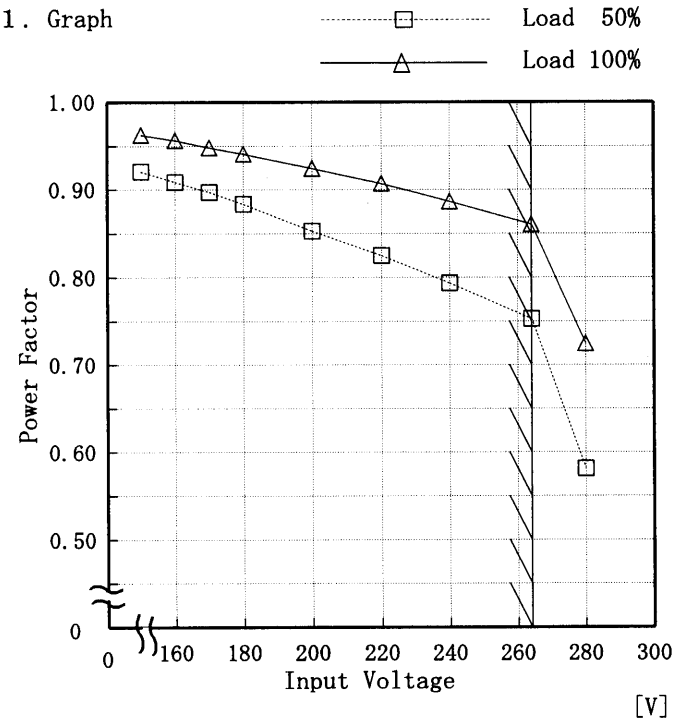
Load Current [A]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.20	64.7	64.3	62.8
0.40	73.5	73.4	72.8
0.60	79.0	79.0	78.9
0.80	81.9	82.1	82.0
1.00	83.6	83.9	84.0
1.10	84.4	84.6	84.8
1.21	84.9	85.1	85.3
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-48
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%
150	0.92	0.96
160	0.91	0.96
170	0.90	0.95
180	0.88	0.94
200	0.85	0.92
220	0.83	0.91
240	0.79	0.89
264	0.75	0.86
280	0.58	0.72

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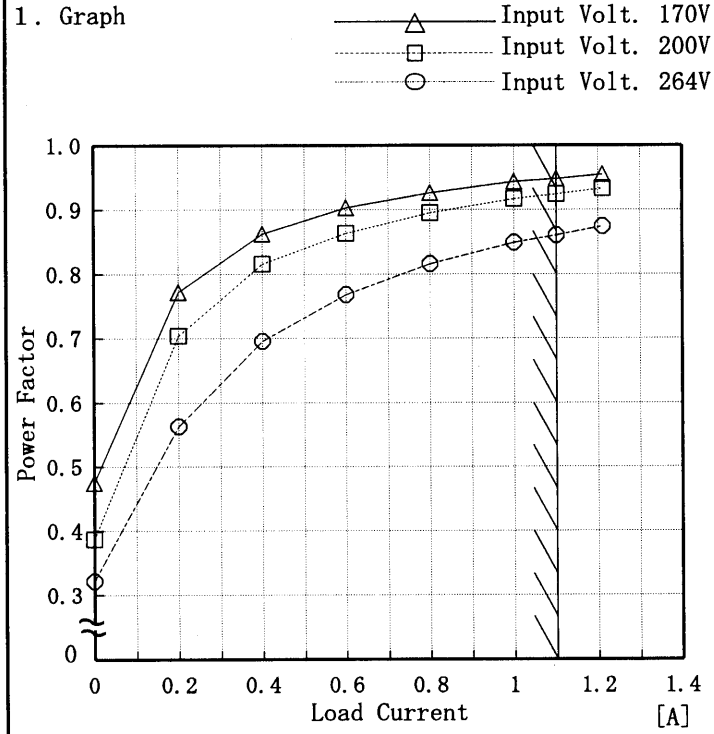
Model	LEA50F-48
Item	Power Factor (by Load Current) 力率（負荷特性）
Output	――――

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

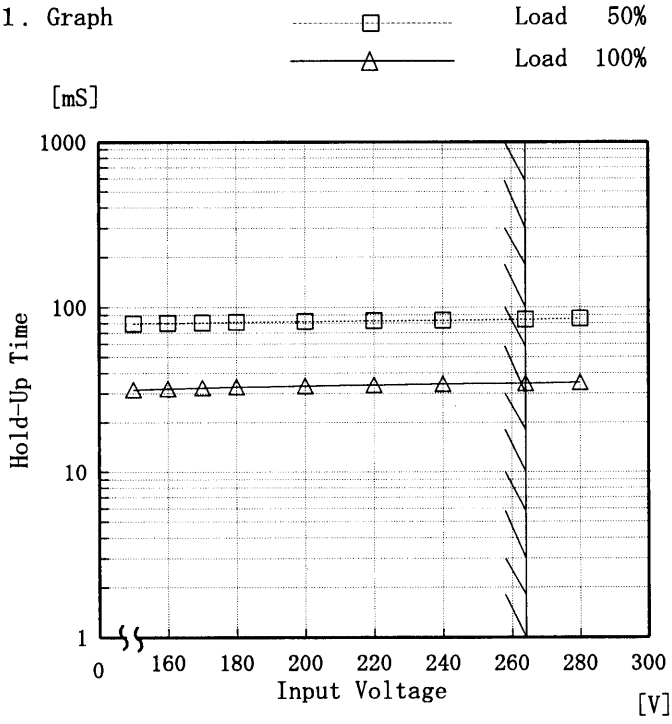
Load Current [A]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.47	0.39	0.32
0.20	0.77	0.70	0.56
0.40	0.86	0.82	0.70
0.60	0.90	0.86	0.77
0.80	0.93	0.89	0.82
1.00	0.94	0.92	0.85
1.10	0.95	0.92	0.86
1.21	0.95	0.93	0.87
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-48
Item	Hold-Up Time 出力保持時間
Object	+48.0V1.1A

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]	Hold-Up Time [mS]	
	Load 50%	Load 100%
150	80	32
160	80	32
170	81	33
180	81	33
200	82	33
220	83	34
240	84	34
264	84	35
280	85	35

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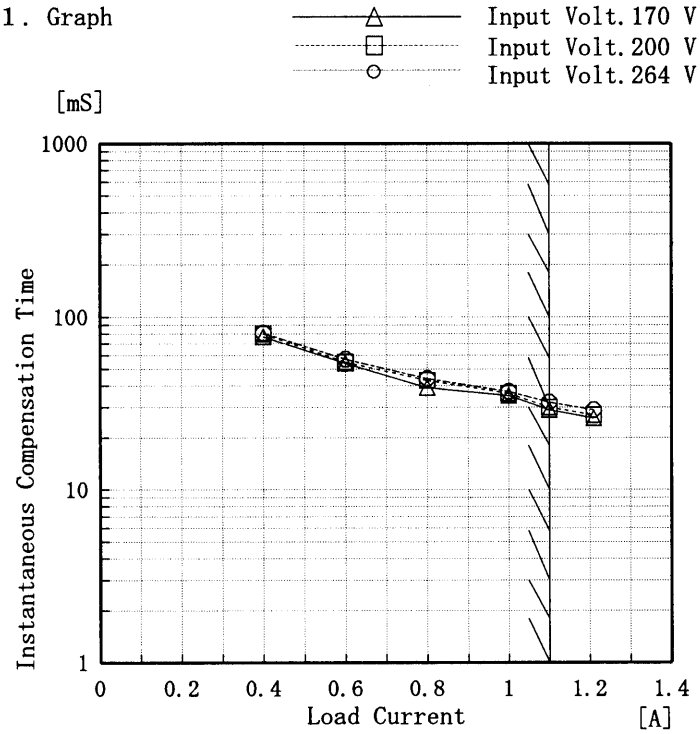
Model	LEA50F-48		
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature Testing Circuitry	25℃ Figure A
Object	+48.0V1.1A		

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

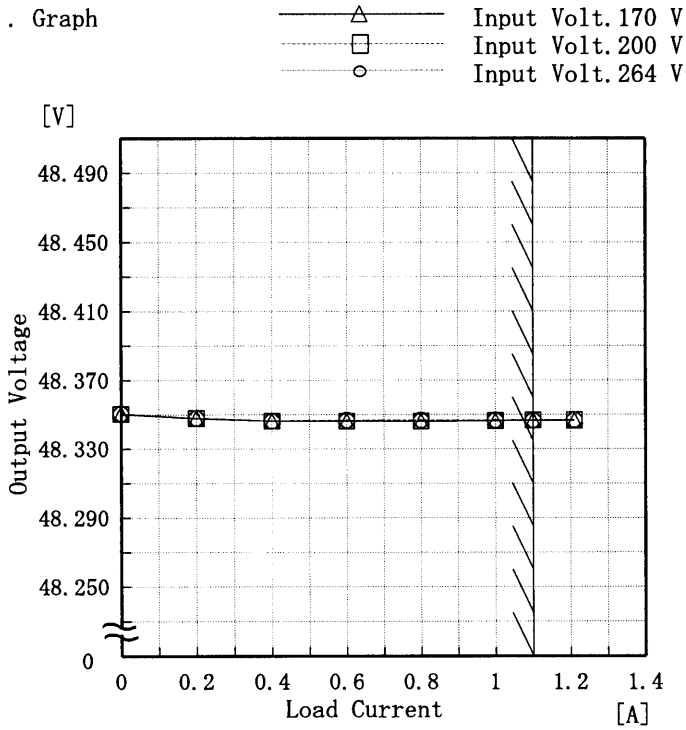
Load Current [A]	Time [mS]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	—	—	—
0.20	—	—	—
0.40	77	80	81
0.60	54	55	57
0.80	39	43	44
1.00	35	36	37
1.10	29	30	32
1.21	26	27	29
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-48
Item	Load Regulation 静的負荷変動
Object	+48.0V1.1A

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

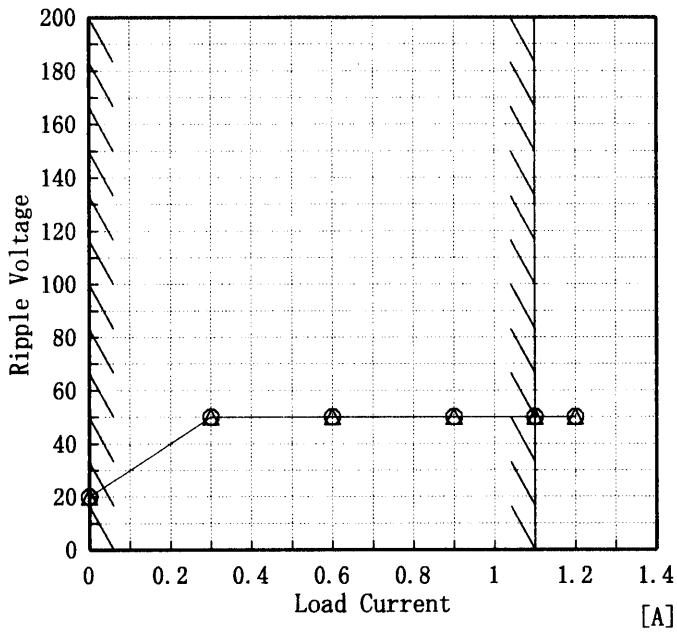
Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	48.350	48.350	48.351
0.20	48.348	48.348	48.348
0.40	48.346	48.346	48.346
0.60	48.346	48.346	48.347
0.80	48.346	48.346	48.347
1.00	48.346	48.347	48.347
1.10	48.347	48.347	48.347
1.21	48.347	48.347	48.347
—	—	—	—
—	—	—	—

COSEL

Model	LEA50F-48
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)
Object	+48.0V1.1A

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

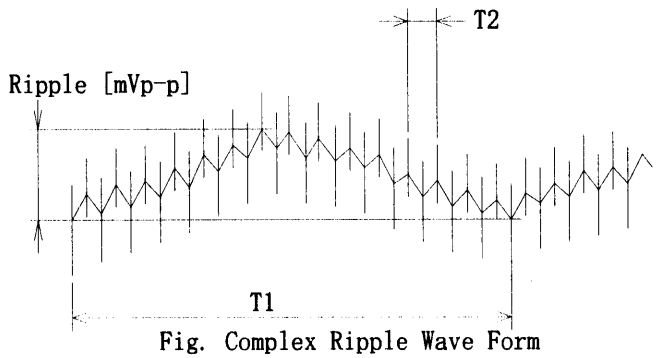


Fig. Complex Ripple Wave Form
図　リップル波形詳細図

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	20	20
0.3	50	50
0.6	50	50
0.9	50	50
1.1	50	50
1.2	50	50
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

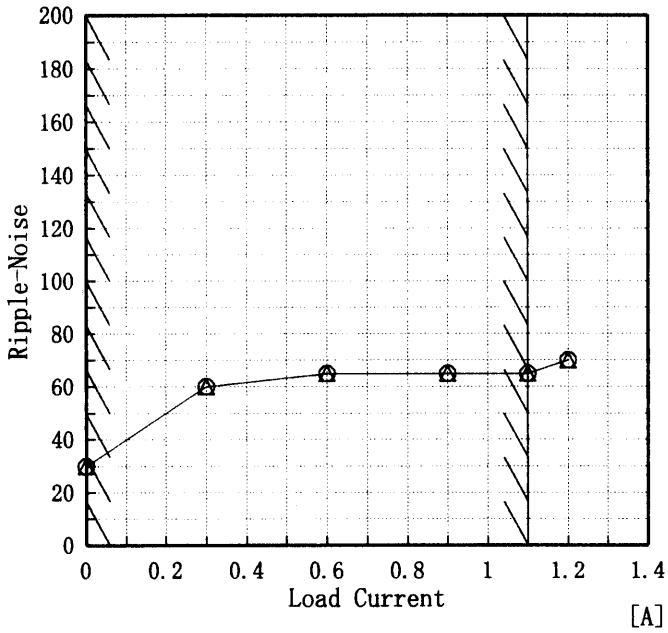
COSEL

Model	LEA50F-48
Item	Ripple-Noise リップルノイズ
Object	+48.0V1.1A

Temperature 25℃
Testing Circuitry Figure A

1. Graph

Input Volt. 170V
Input Volt. 264V



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

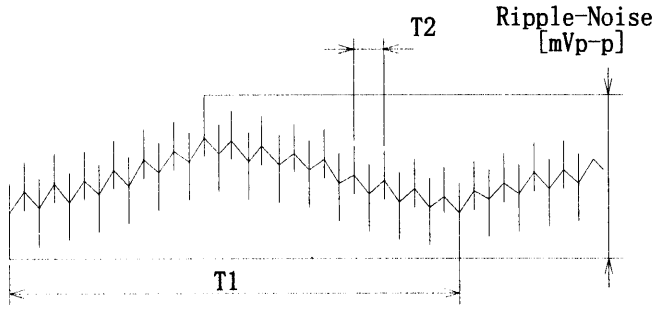


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

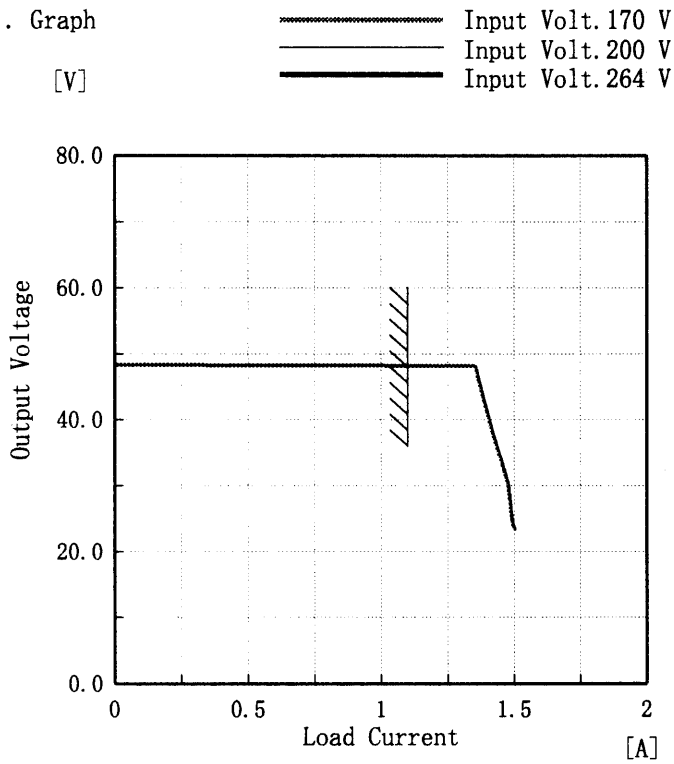
Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	30	30
0.3	60	60
0.6	65	65
0.9	65	65
1.1	65	65
1.2	70	70
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

COSEL

Model	LEA50F-48
Item	Overcurrent Protection 過電流保護
Object	+48.0V1.1A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated load current.
Intermittent operation occurs when the output voltage is from 23V to 0V.

(注)斜線は定格負荷電流範囲を示す。
23V～0V間は、間欠モードとなる。

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
48.00	1.356	1.358	1.359
45.60	1.369	1.371	1.372
43.20	1.382	1.385	1.385
38.40	1.413	1.416	1.417
33.60	1.451	1.453	1.454
28.80	1.480	1.482	1.483
24.00	1.493	1.494	1.495
19.20	—	—	—
14.40	—	—	—
9.60	—	—	—
4.80	—	—	—
0.00	—	—	—

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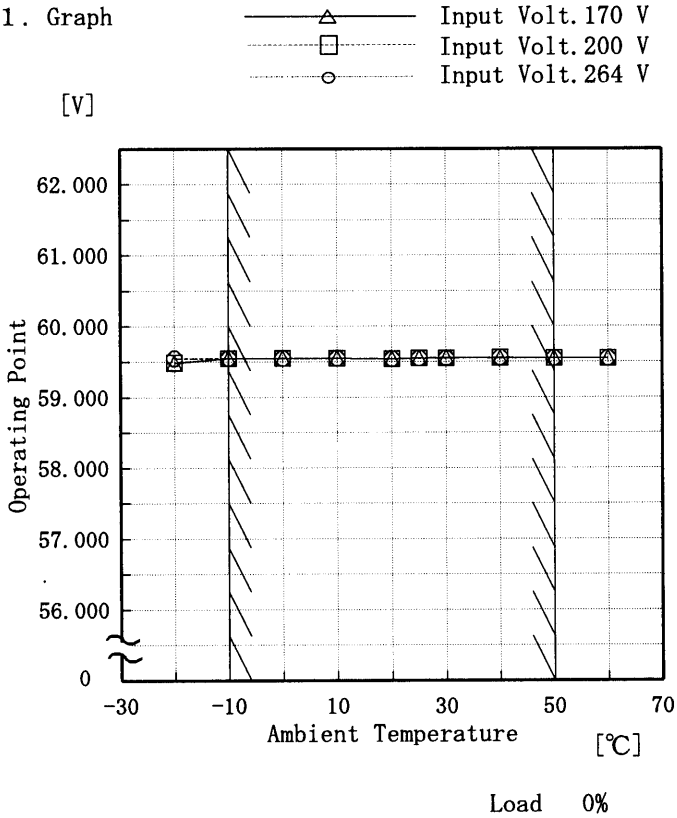
Model	LEA50F-48
Item	Overvoltage Protection 過電圧保護
Object	+48.0V1.1A

Testing Circuitry Figure A

1. Graph



Load 0%

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

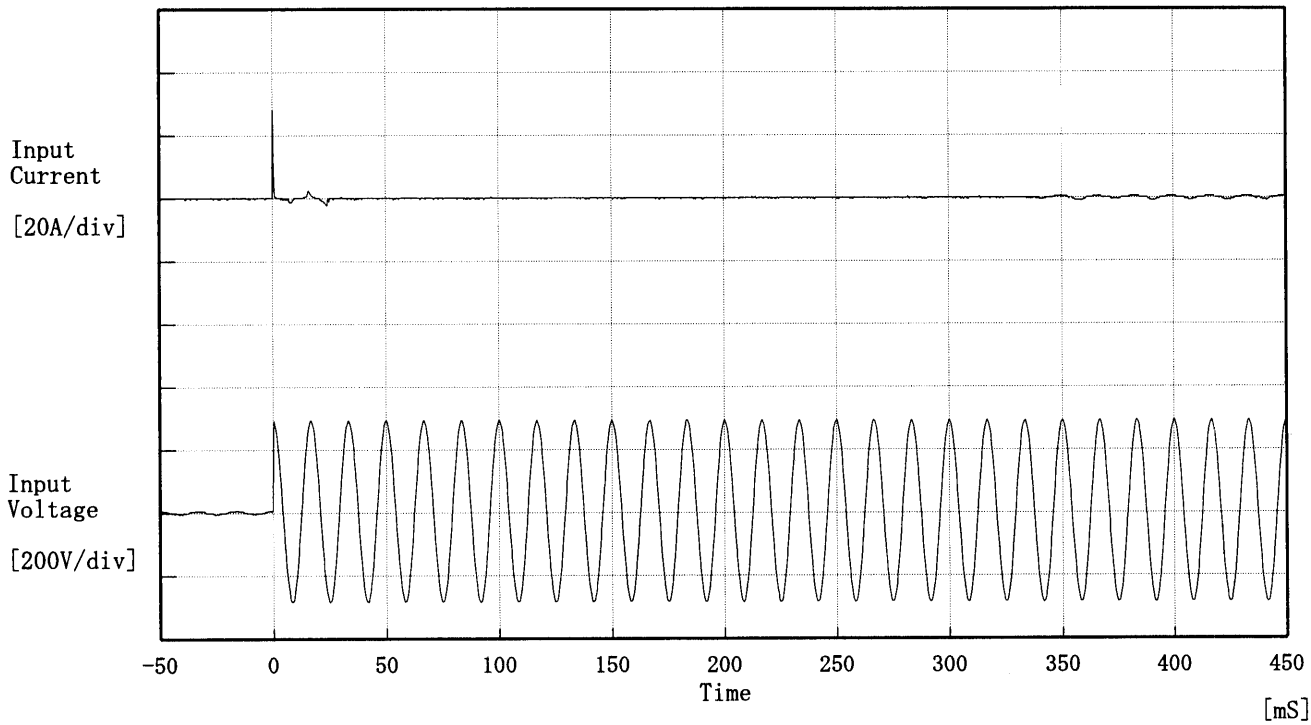
(注)斜線は定格周囲温度範囲を示す。

2. Values

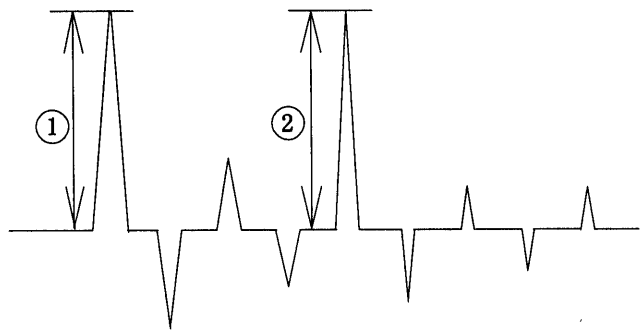
Ambient Temperature [℃]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	59.48	59.49	59.55
-10	59.55	59.55	59.55
0	59.55	59.55	59.55
10	59.55	59.55	59.55
20	59.54	59.54	59.54
25	59.55	59.55	59.55
30	59.56	59.55	59.55
40	59.55	59.56	59.56
50	59.55	59.55	59.55
60	59.55	59.55	59.55
—	—	—	—

COSEL

Model	LEA50F-48		
Item	Inrush Current 突入電流	Temperature Testing Circuitry	25℃ Figure A
Object	――――――――		



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



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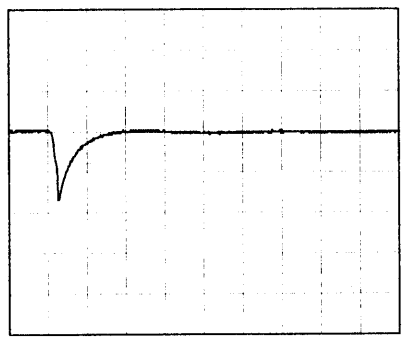
COSEL

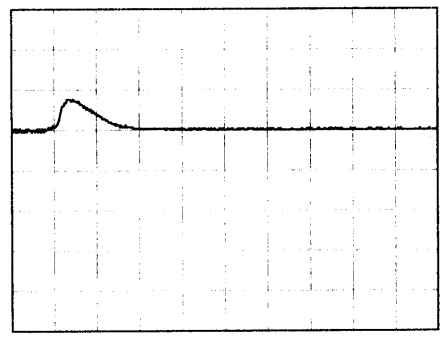
Model	LEA50F-48		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+48.0V1.1A		

Input Volt. 200 V
Cycle 1000 mS

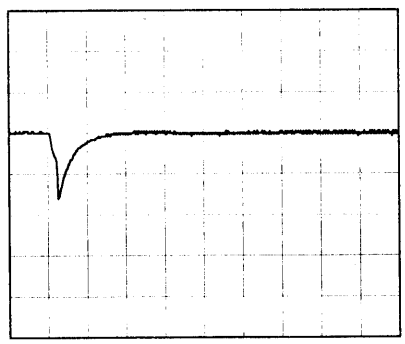
Load Current

Min. Load ←→
Load 100 %

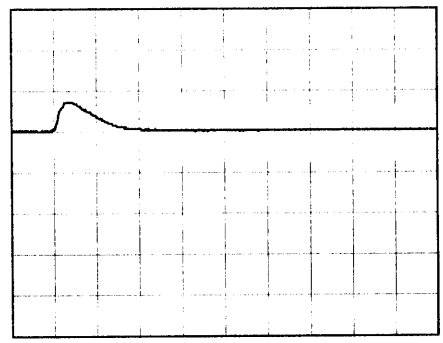




Min. Load ←→
Load 50 %



100 mV/div



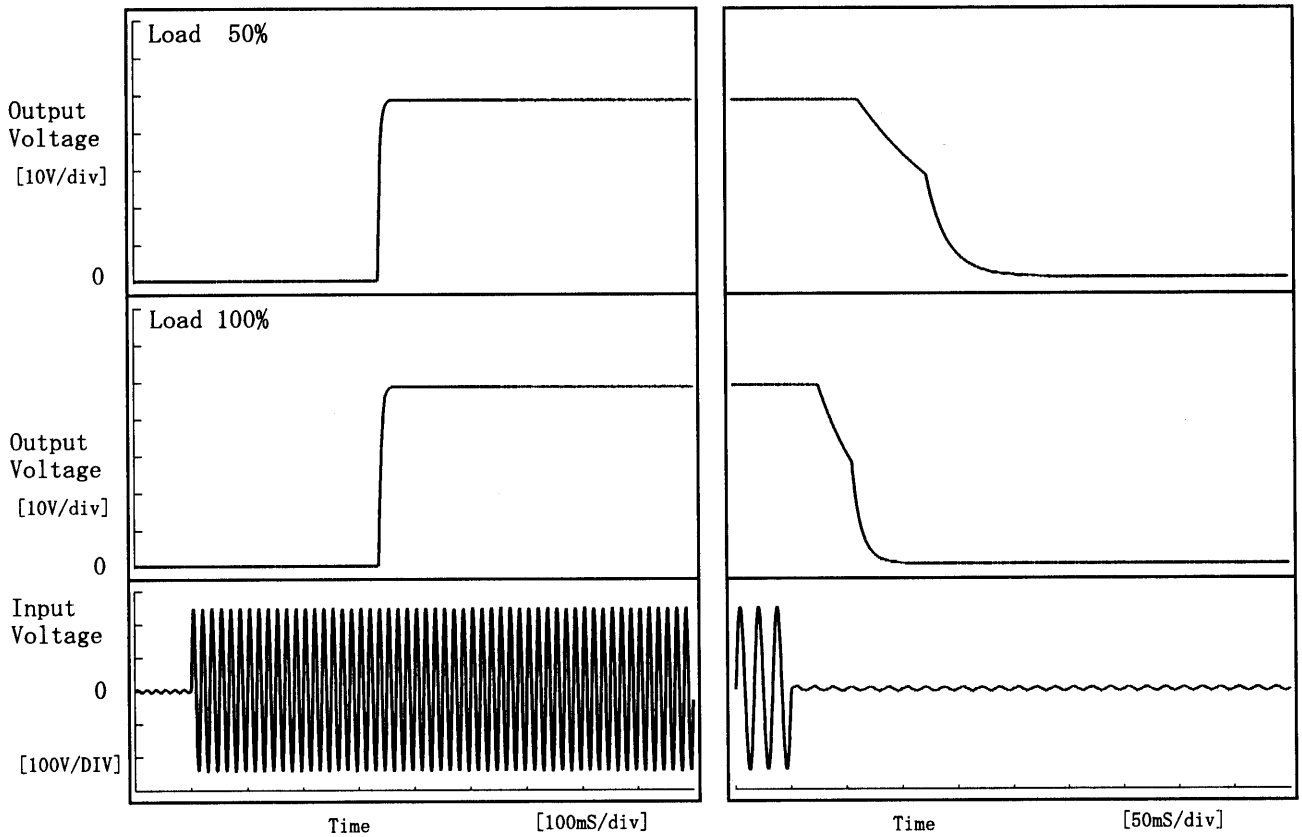
10 mS/div

COSEL

Model	LEA50F-48		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+48.0V1.1A		

1. Graph

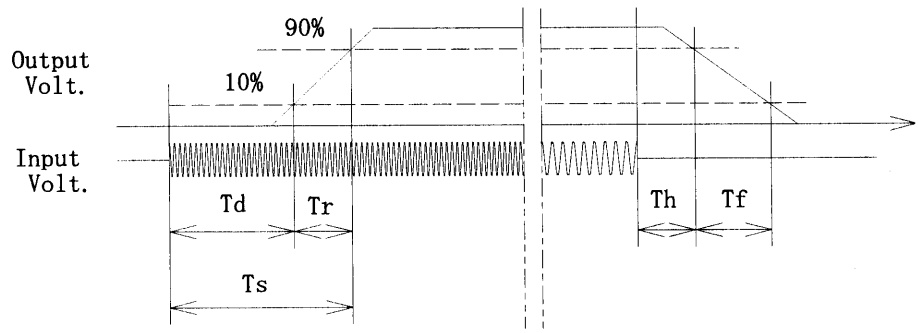
Input Volt. 170 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	337.0	9.0	346.0	75.0	85.3
100 %	336.5	11.0	347.5	32.8	39.8

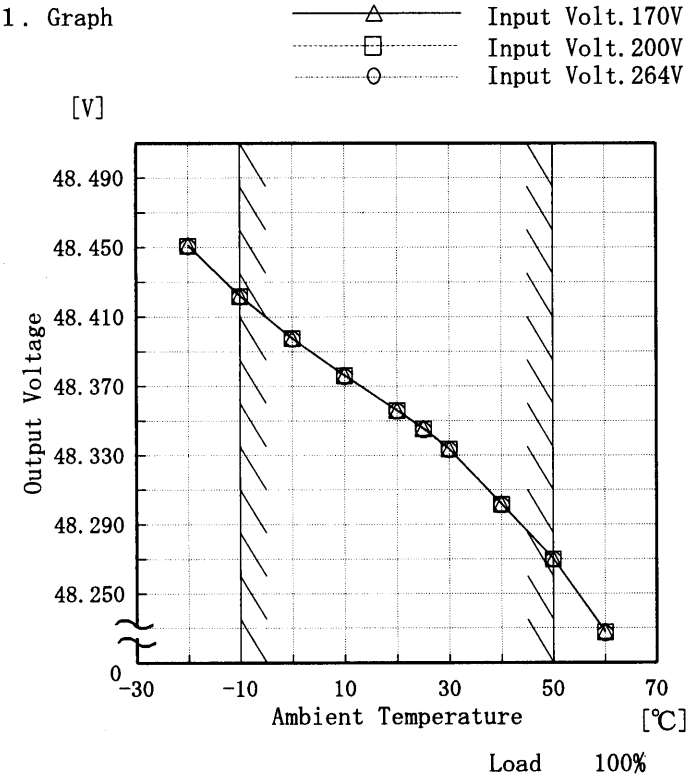


COSEL

Model	LEA50F-48
Item	Ambient Temperature Drift 周囲温度変動
Object	+48.0V1.1A

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

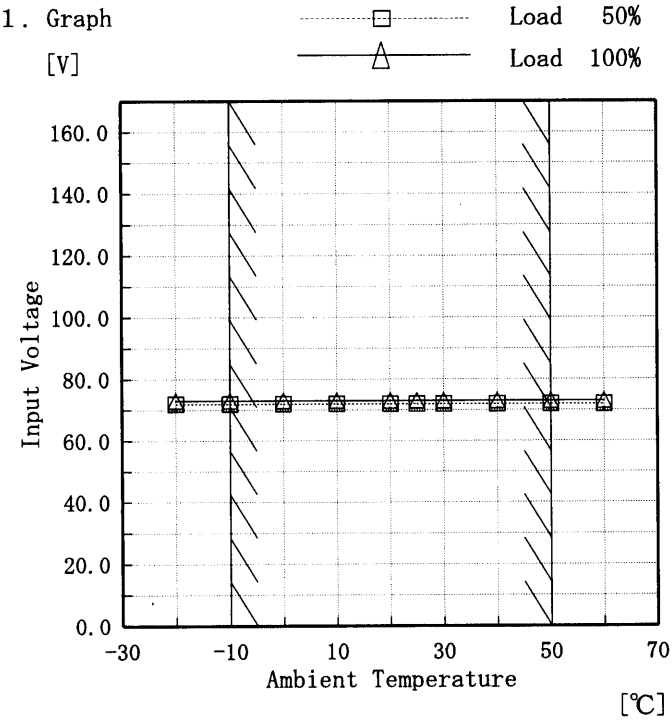
Ambient Temperature [℃]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	48.451	48.451	48.451
-10	48.422	48.422	48.422
0	48.398	48.397	48.397
10	48.376	48.376	48.376
20	48.356	48.356	48.356
25	48.346	48.345	48.345
30	48.334	48.333	48.333
40	48.302	48.301	48.301
50	48.270	48.270	48.270
60	48.228	48.228	48.227
—	—	—	—

COSEL

Model	LEA50F-48
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+48.0V1.1A

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

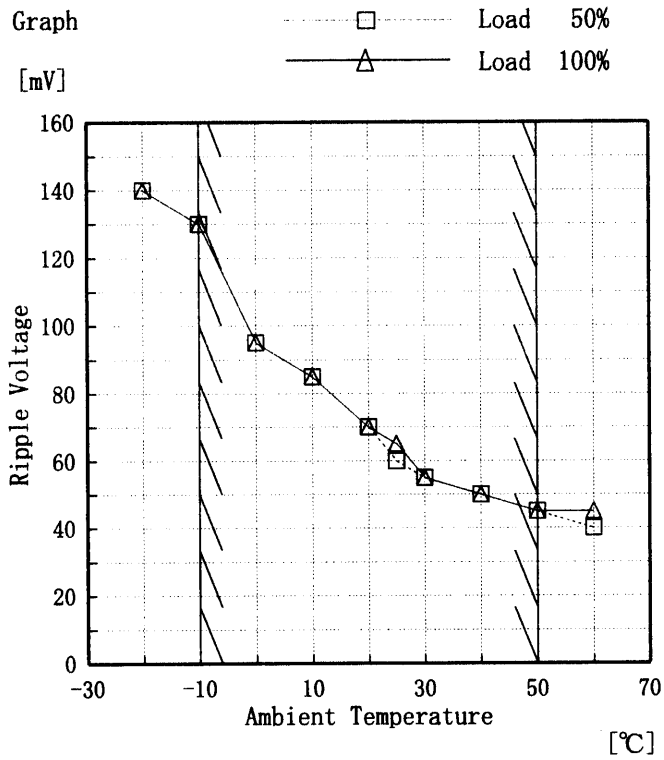
Ambient Temperature [℃]	Input Voltage [V]	
	Load 50%	Load 100%
-20	72	73
-10	72	73
0	72	73
10	72	73
20	72	73
25	72	73
30	72	73
40	72	73
50	72	73
60	72	73
—	—	—

COSEL

Model	LEA50F-48
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）
Object	+48.0V1.1A

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

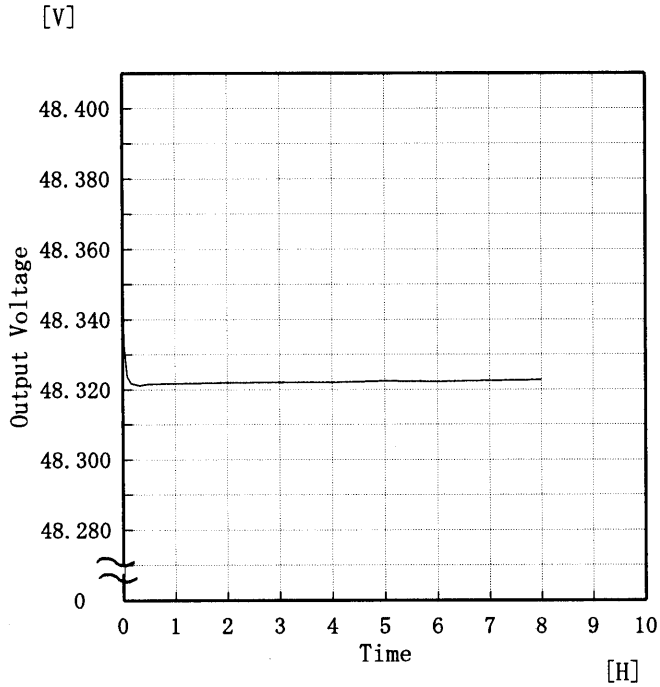
Ambient Temperature [℃]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	140	140
-10	130	130
0	95	95
10	85	85
20	70	70
25	60	65
30	55	55
40	50	50
50	45	45
60	40	45
—	—	—

COSEL

Model	LEA50F-48
Item	Time Lapse Drift 経時ドリフト
Object	+48.0V1.1A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



Input Volt. 200V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	48.361
0.5	48.322
1.0	48.322
2.0	48.322
3.0	48.322
4.0	48.322
5.0	48.322
6.0	48.322
7.0	48.323
8.0	48.323

COSEL

Model	LEA50F-48	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+48.0V1.1A	

1. 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 : 0～1.1 A

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

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

1. 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 170～264 V
負荷電流 0～1.1 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

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

2. Values

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	264	0.0	48.433	±86	±0.2
Minimum Voltage	50	264	1.1	48.262		

COSEL

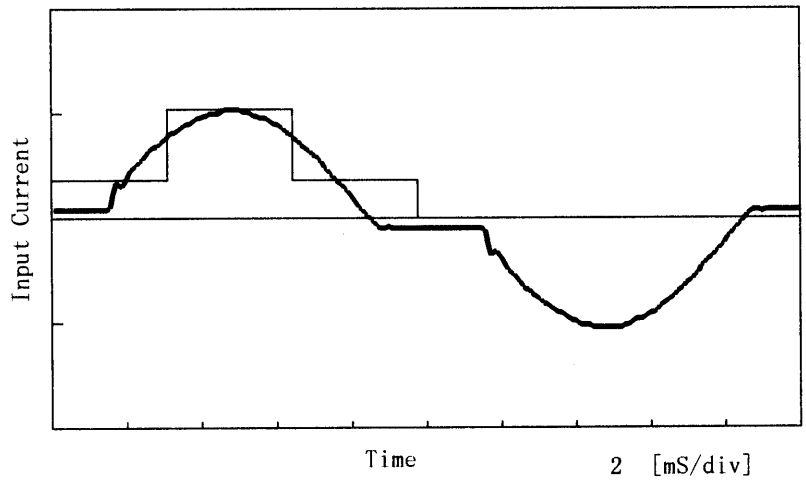
Model	LEA50F-48		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

―― Input Current

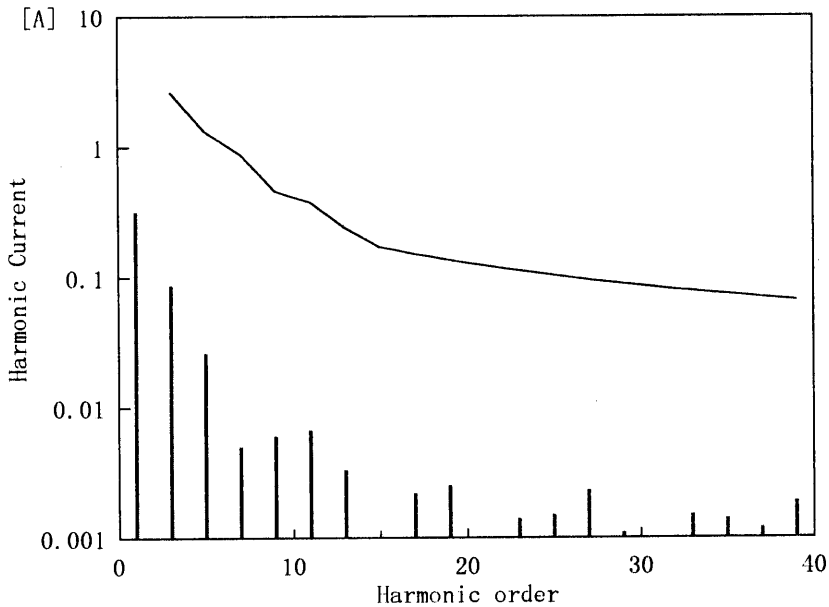
―― Envelope of the input current to classify equipment as Class D
ｸﾗｽDの機器を決定するための入力電流包絡線

0.5 A/div



Conditions	Values
Input Voltage [V]	200.9
Input Current [A]	0.331
Active Power [W]	62.6
Apparent Power[VA]	66.7
Frequency [Hz]	50
Power Factor	0.939
Output Power [W]	52.8

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	—	0.31870
2	—	0.00030
3	2.63315	0.08730
4	—	0.00010
5	1.30513	0.02600
6	—	0.00000
7	0.88153	0.00500
8	—	0.00000
9	0.45794	0.00600
10	—	0.00010
11	0.37780	0.00670
12	—	0.00010
13	0.24042	0.00330
14	—	0.00010
15	0.17173	0.00100
16	—	0.00000
17	0.15152	0.00220
18	—	0.00000
19	0.13557	0.00250
20	—	0.00000
21	0.12266	0.00060
22	—	0.00000
23	0.11200	0.00140
24	—	0.00010
25	0.10304	0.00150
26	—	0.00010
27	0.09540	0.00230
28	—	0.00010
29	0.08882	0.00110
30	—	0.00010
31	0.08309	0.00090
32	—	0.00000
33	0.07806	0.00150
34	—	0.00000
35	0.07360	0.00140
36	—	0.00010
37	0.06962	0.00120
38	—	0.00010
39	0.06605	0.00190
40	—	0.00010

COSEL

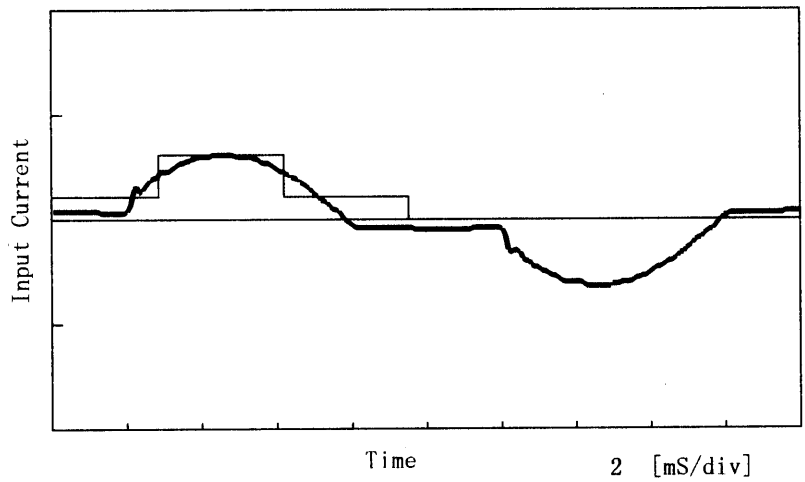
Model	LEA50F-48		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

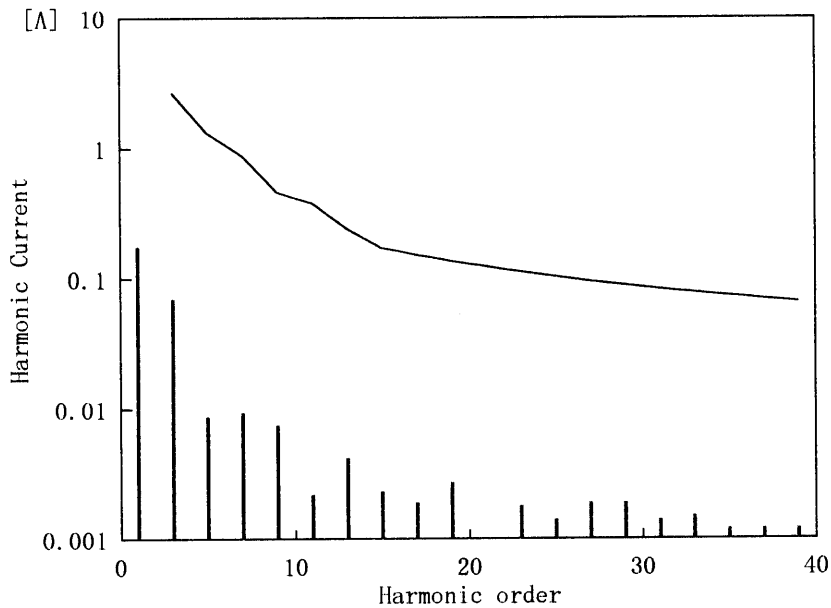
―― Input Current

―― 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]	200.9
Input Current [A]	0.191
Active Power [W]	34
Apparent Power[VA]	38.5
Frequency [Hz]	50
Power Factor	0.883
Output Power [W]	26.4



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	—	0.17760
2	—	0.00030
3	2.63315	0.06990
4	—	0.00000
5	1.30513	0.00870
6	—	0.00000
7	0.88153	0.00940
8	—	0.00010
9	0.45794	0.00750
10	—	0.00010
11	0.37780	0.00220
12	—	0.00010
13	0.24042	0.00420
14	—	0.00000
15	0.17173	0.00230
16	—	0.00000
17	0.15152	0.00190
18	—	0.00010
19	0.13557	0.00270
20	—	0.00010
21	0.12266	0.00030
22	—	0.00010
23	0.11200	0.00180
24	—	0.00000
25	0.10304	0.00140
26	—	0.00010
27	0.09540	0.00190
28	—	0.00010
29	0.08882	0.00190
30	—	0.00010
31	0.08309	0.00140
32	—	0.00000
33	0.07806	0.00150
34	—	0.00000
35	0.07360	0.00120
36	—	0.00010
37	0.06962	0.00120
38	—	0.00010
39	0.06605	0.00120
40	—	0.00000

COSEL

Model	LEA50F-48	
Item	Condensation 結露特性	Testing Circuitry Figure A
Object	+48.0V1.1A	

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]	48.345	Input Volt.: 200V, Load Current:1.1A
Line Regulation [mV]	2	Input Volt.: 170～264V, Load Current:1.1A
Load Regulation [mV]	8	Input Volt.: 200V, Load Current:0.0～1.1A

COSEL

Model	LEA50F-48	Temperature	25℃
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure A
Object	――――――		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 200 [V]	Input Volt. 264 [V]
(A) DENTORI	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.32	0.44	0.52

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-48		
Item	Line Noise Tolerance 入力雑音耐量	Temperature Testing Circuitry	25℃ Figure A
Object	+48.0V1.1A		

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

2. Conditions

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

COSEL

Model	LEA50F-48		
Item	Conducted Emission 雑音端子電圧	Temperature Testing Circuitry	25℃ Figure D
Object	――――――――		

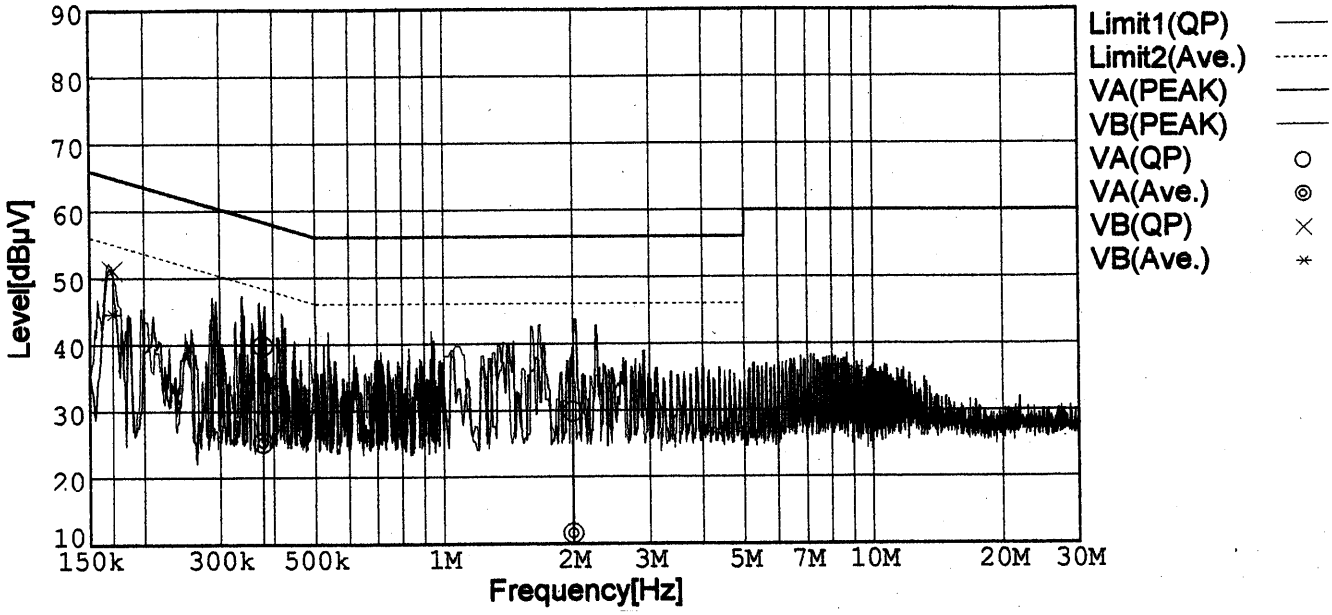
1. Graph

Remarks

Input Volt. 230 V (CISPR Pub22 Class B)

Load 100 %

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



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COSEL

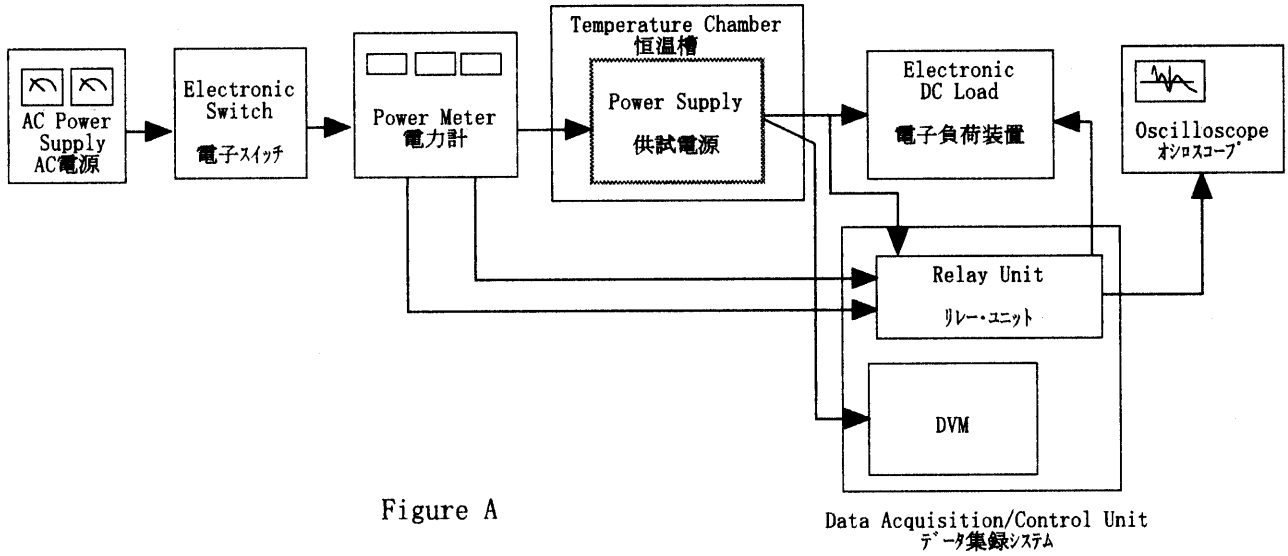

Figure A

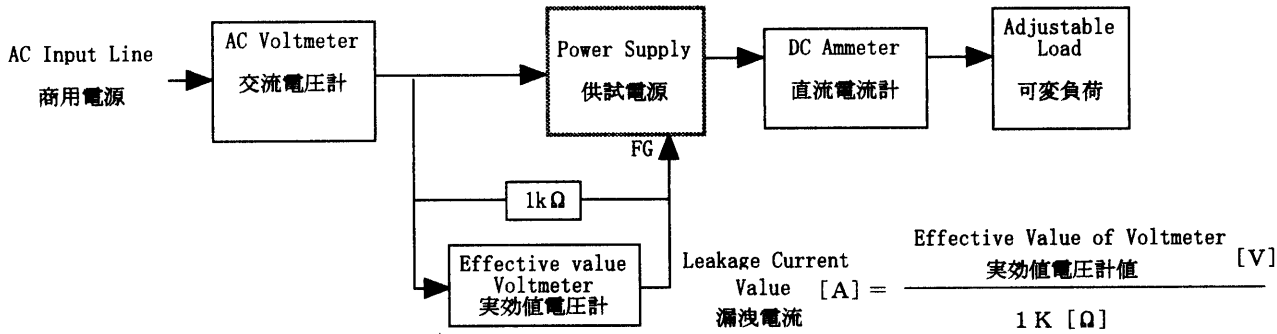

Figure B(DENTORI)

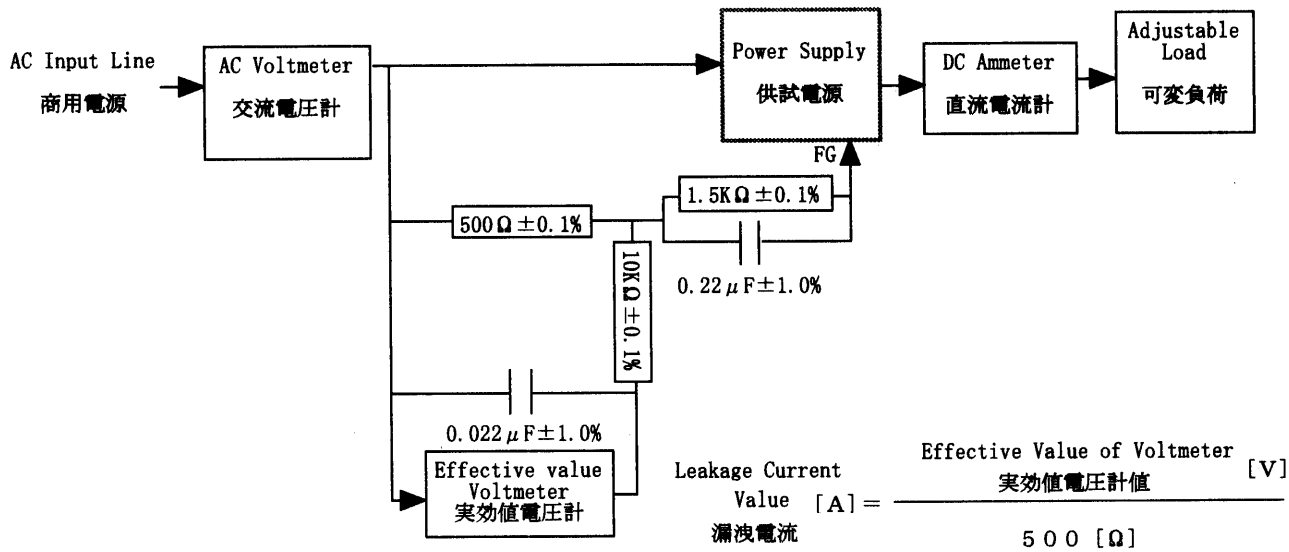

Figure B（IEC60950）

COSEL

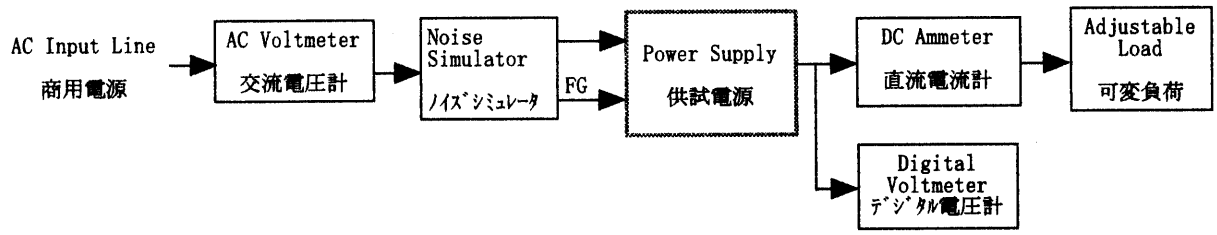

Figure C

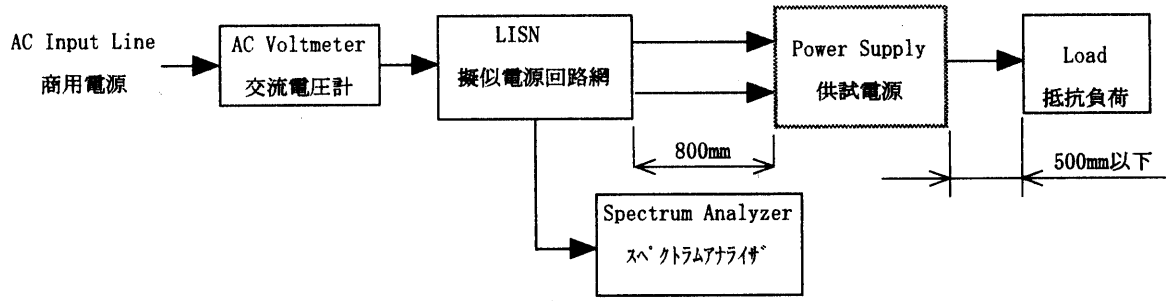

Figure D

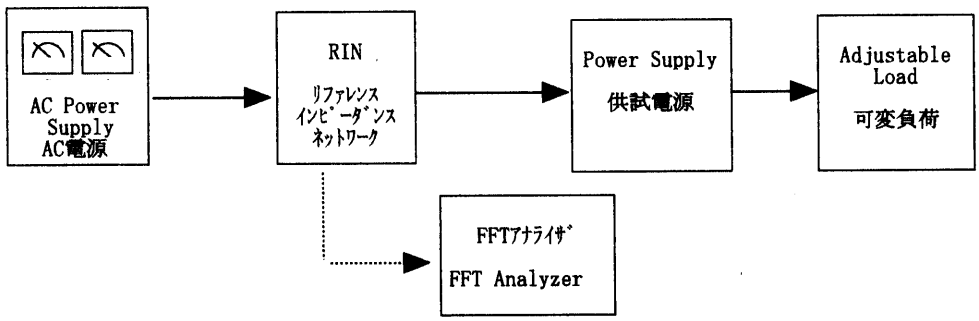

Figure E