参考資料

COSEL

TEST DATA OF LEA150F-5

(200V INPUT)

Regulated DC Power Supply

Date : Feb. 5. 1999

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コーセル株式会社

COSEL CO., LTD.

参考資料

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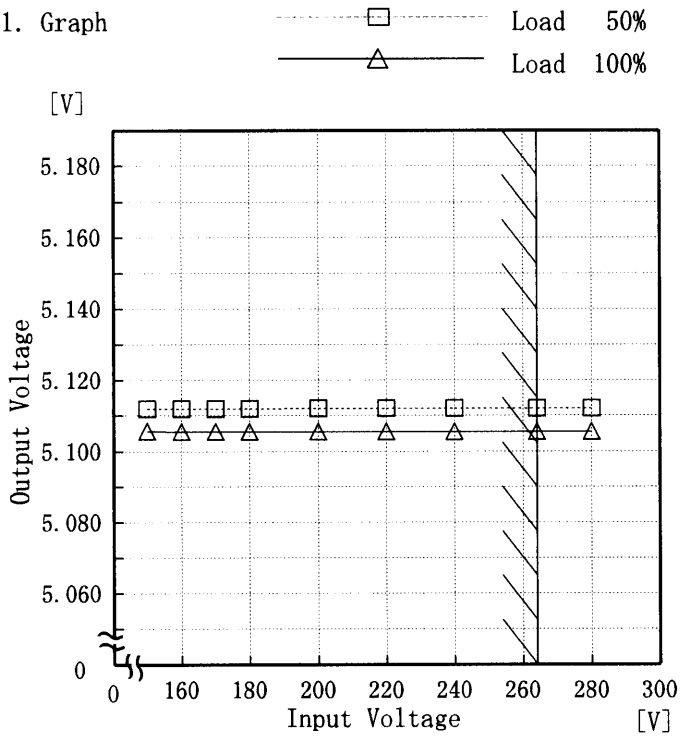
Model	LEA150F-5
Item	Line Regulation 静的入力変動
Object	+5.0V30.00A

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

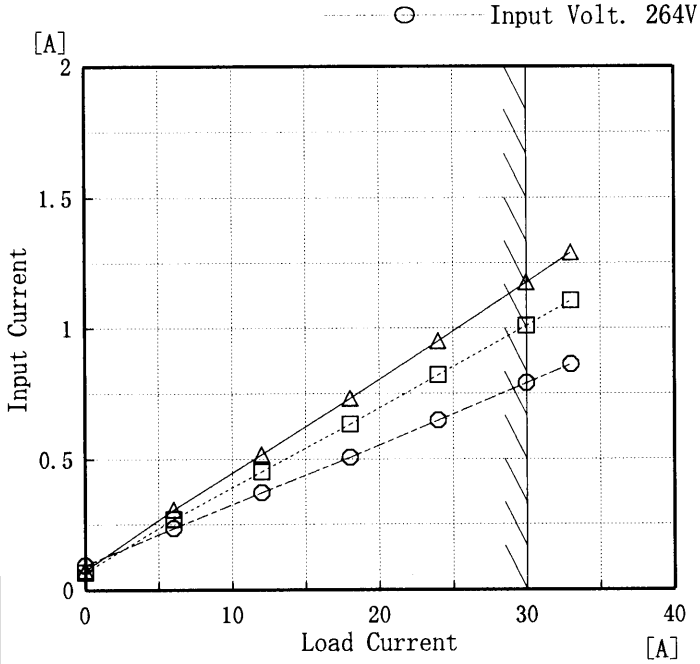
Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]
150	5.112	5.106
160	5.112	5.106
170	5.112	5.106
180	5.112	5.106
200	5.112	5.106
220	5.112	5.106
240	5.112	5.106
264	5.112	5.106
280	5.112	5.106

COSEL

Model	LEA150F-5
Item	Input Current (by Load Current) 入力電流（負荷特性）
Output	――――

Temperature 25℃
Humidity 40%RH
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	0.07	0.07	0.09
6	0.31	0.27	0.24
12	0.52	0.45	0.37
18	0.73	0.63	0.51
24	0.95	0.82	0.65
30	1.18	1.01	0.79
33	1.29	1.11	0.86
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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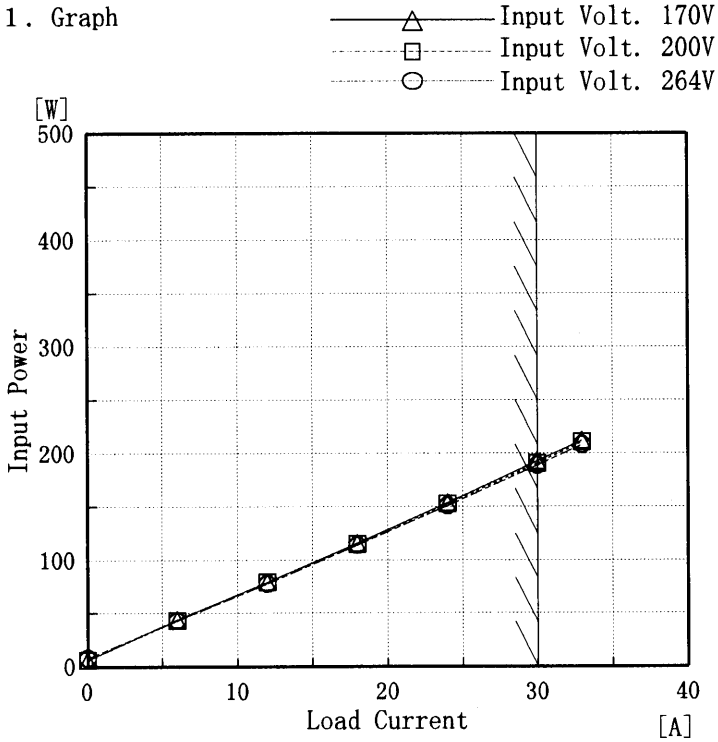
COSEL

Model	LEA150F-5
Item	Input Power (by Load Current) 入力電力（負荷特性）
Output	————

Temperature 25℃
Humidity 40%RH
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	6	6	8
6	44	43	43
12	79	79	78
18	116	115	114
24	154	153	151
30	193	191	189
33	212	211	208
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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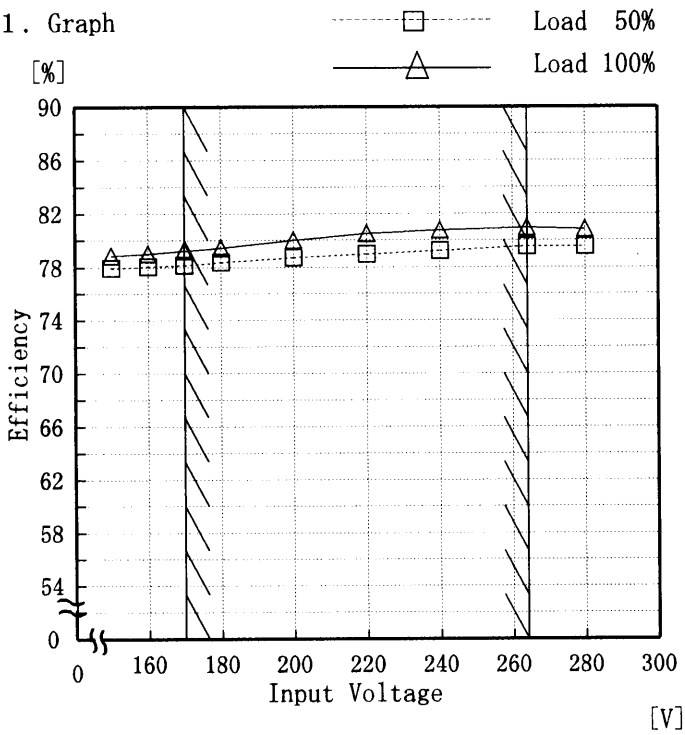
COSEL

Model	LEA150F-5
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

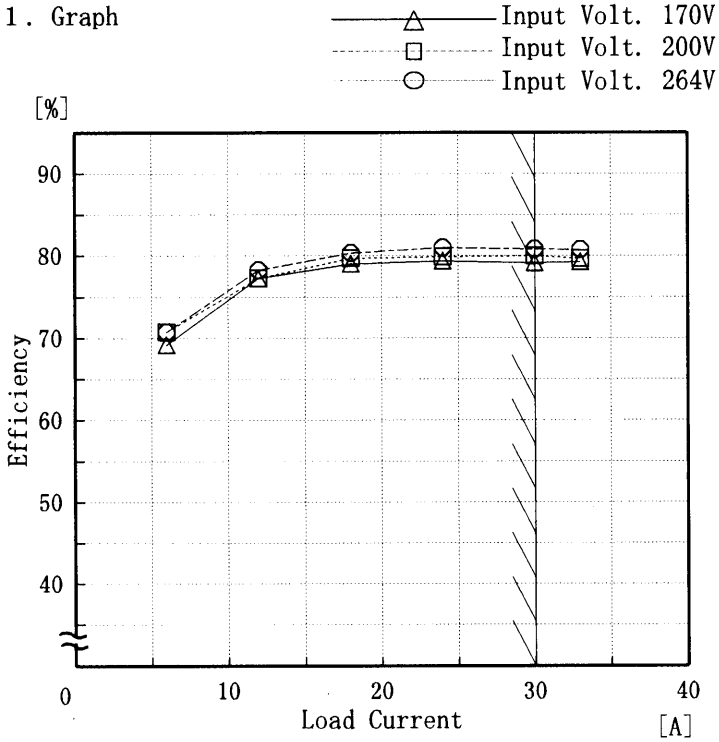
Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
150	77.93	78.88
160	78.04	79.02
170	78.16	79.24
180	78.36	79.43
200	78.74	80.02
220	78.98	80.52
240	79.23	80.78
264	79.56	80.94
280	79.55	80.85

COSEL

Model	LEA150F-5
Item	Efficiency (by Load Current) 効率（負荷特性）
Output	――――

Temperature 25℃
Humidity 40%RH
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]
6	69.2	70.8	70.8
12	77.3	77.3	78.3
18	79.0	79.7	80.4
24	79.4	79.9	81.0
30	79.2	80.0	80.9
33	79.3	79.7	80.8
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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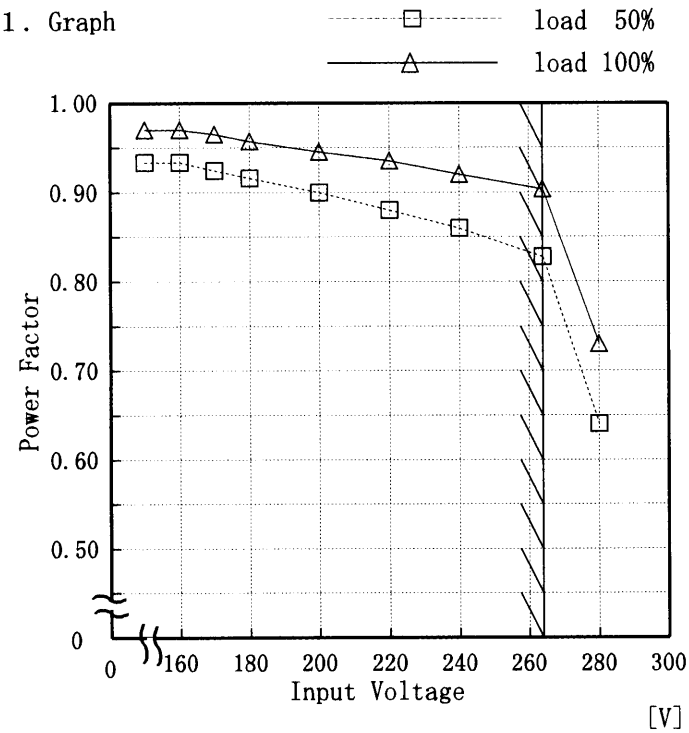
Model	LEA150F-5	Temperature	25℃
Item	Power Factor (by Input Voltage) 力率(入力電圧特性)	Humidity Testing Circuitry	40%RH Figure A
Object	――――――――――		

1. Graph



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

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	load 50% Power Factor	load 100% Power Factor
150	0.93	0.97
160	0.93	0.97
170	0.92	0.96
180	0.92	0.96
200	0.90	0.95
220	0.88	0.94
240	0.86	0.92
264	0.83	0.90
280	0.64	0.73

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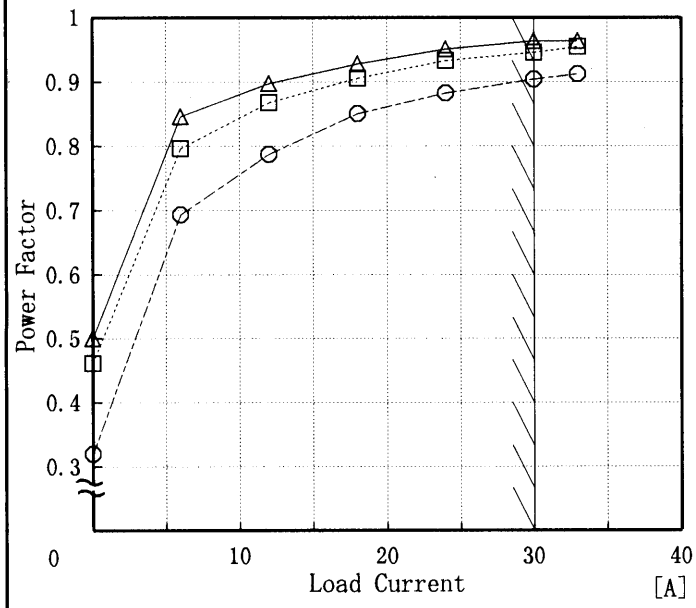
Model	LEA150F-5
Item	Power Factor (by Load Current) 力率（負荷電流特性）
Output	――――

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	0.50	0.46	0.32
6	0.85	0.80	0.69
12	0.90	0.87	0.79
18	0.93	0.91	0.85
24	0.95	0.93	0.88
30	0.96	0.95	0.90
33	0.96	0.95	0.91
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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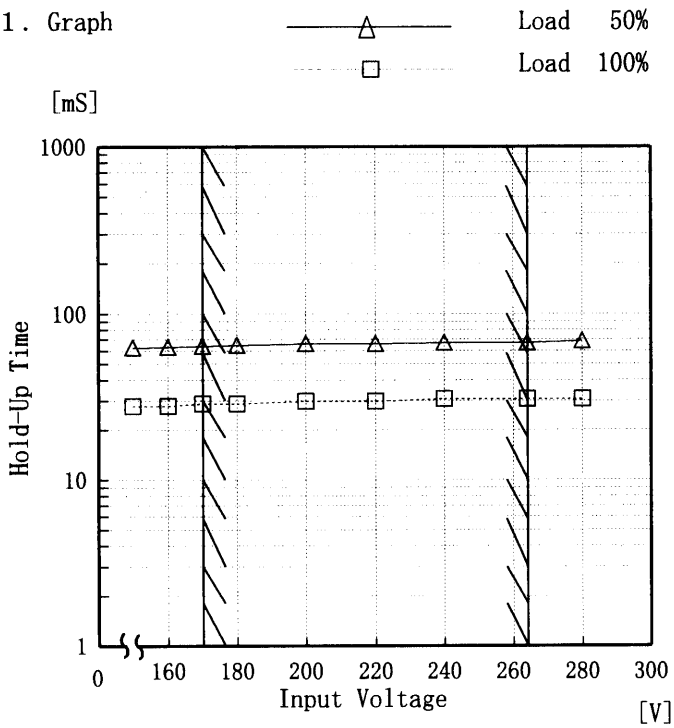
Model	LEA150F-5
Item	Hold-Up Time 出力保持時間
Object	+5.0V30A

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

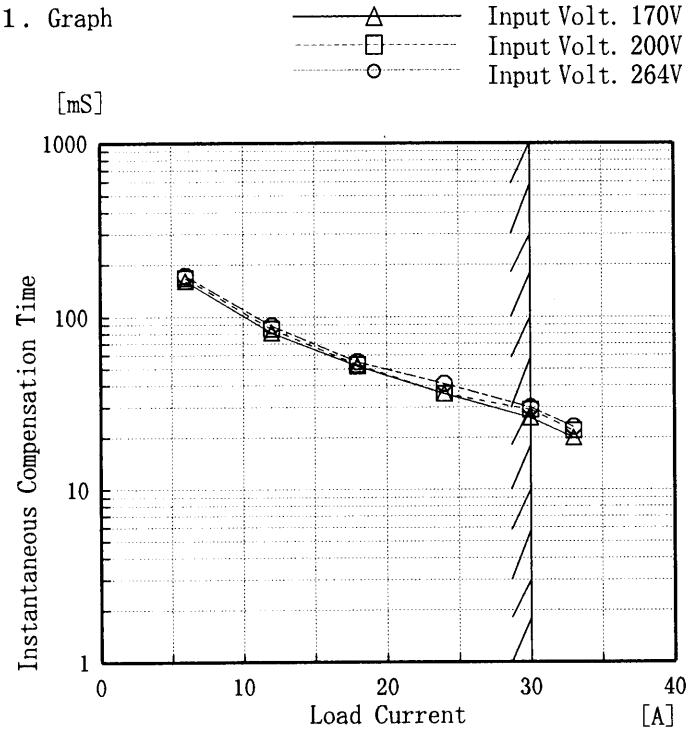
Input Voltage [V]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]
150	63	28
160	63	28
170	64	29
180	65	29
200	66	30
220	66	30
240	67	31
264	67	31
280	69	31

COSEL

Model	LEA150F-5
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+5V30A

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	—	—	—
6	162	168	173
12	81	85	89
18	52	53	55
24	36	36	41
30	26	29	30
33	20	22	23
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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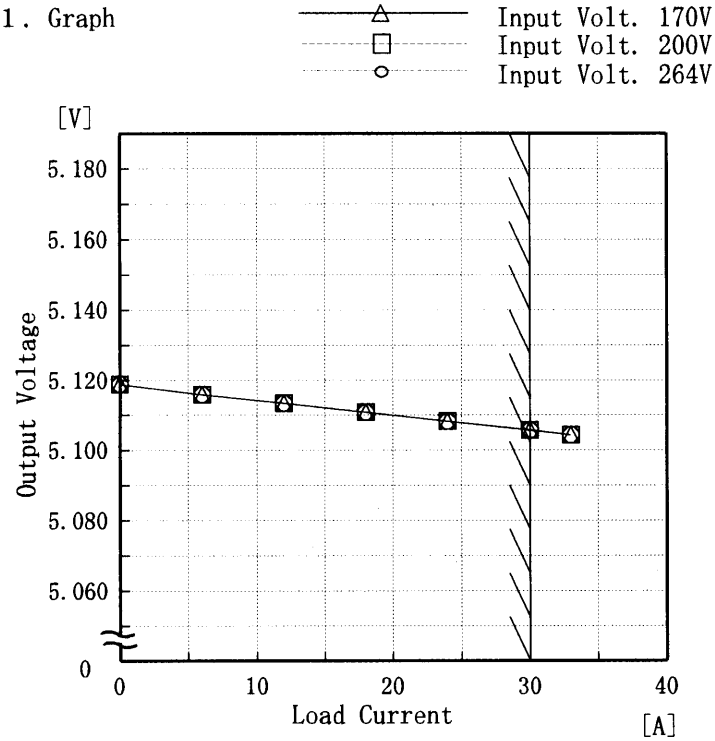
Model	LEA150F-5
Item	Load Regulation 静的負荷変動
Object	+5.0V30.00A

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

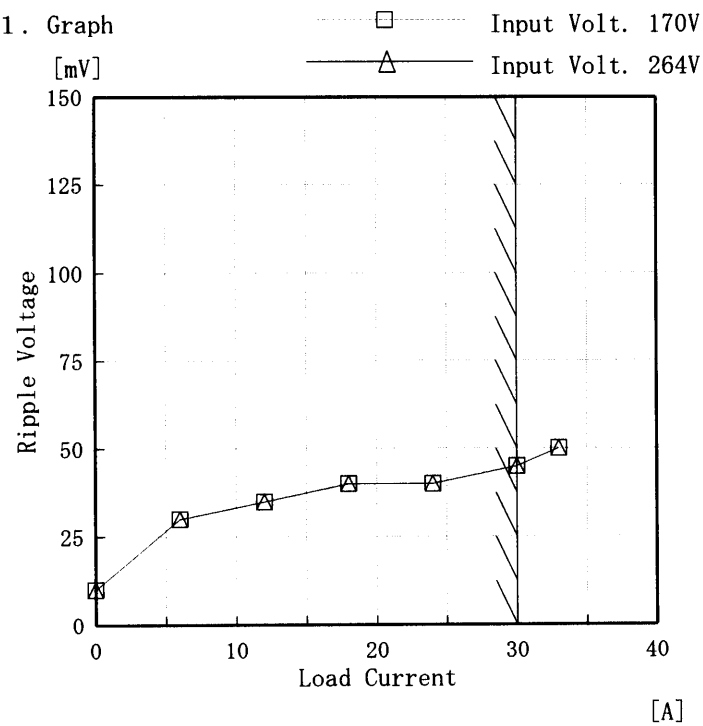
Load Current [A]	Input Volt. 170[V] Output Volt. [V]	Input Volt. 200[V] Output Volt. [V]	Input Volt. 264[V] Output Volt. [V]
0.0	5.119	5.119	5.119
6.0	5.116	5.116	5.116
12.0	5.113	5.113	5.113
18.0	5.111	5.111	5.111
24.0	5.108	5.108	5.108
30.0	5.106	5.106	5.106
33.0	5.104	5.104	5.104
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEA150F-5
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)
Object	+5.0V30.00A

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

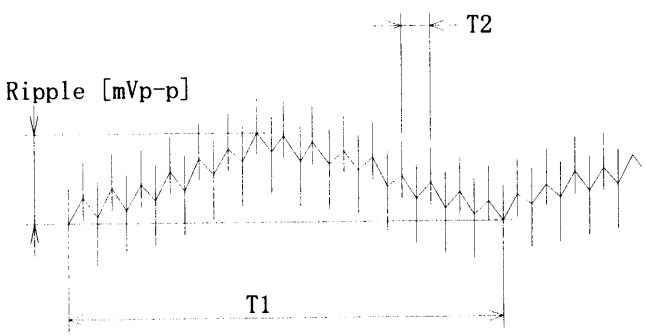


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Input Volt. 170 [V] Ripple Output Volt. [mV]	Input Volt. 264 [V] Ripple Output Volt. [mV]
0.0	10	10
6.0	30	30
12.0	35	35
18.0	40	40
24.0	40	40
30.0	45	45
33.0	50	50
—	—	—
—	—	—
—	—	—
—	—	—

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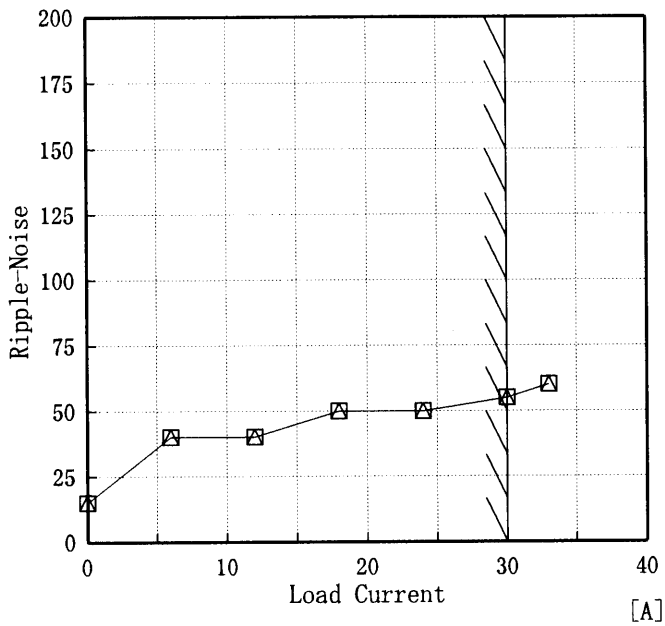
COSEL

Model	LEA150F-5
Item	Ripple-Noise リップルノイズ
Object	+5.0V30.00A

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

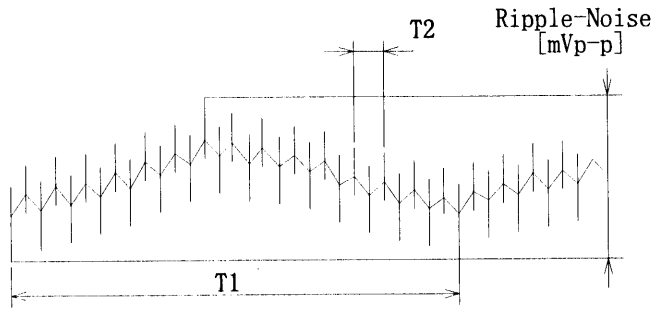


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

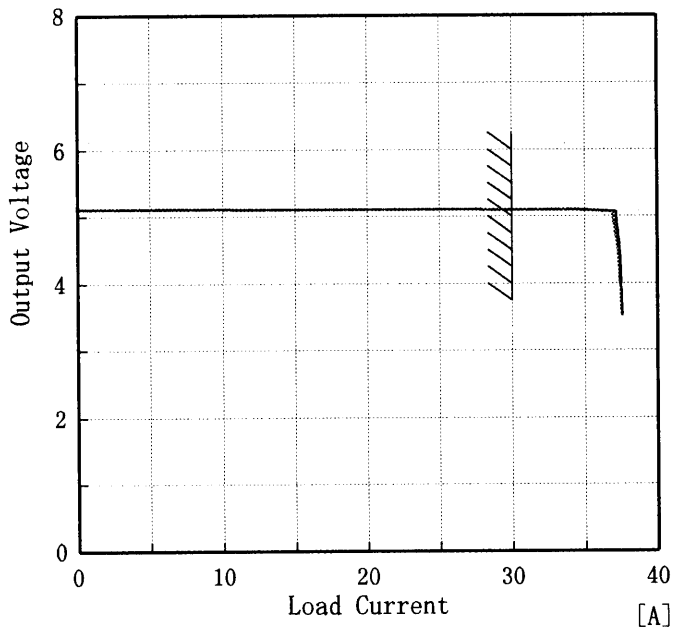
Load current [A]	Input Volt. 170 [V] Ripple-Noise [mV]	Input Volt. 264 [V] Ripple-Noise [mV]
0.0	15	15
6.0	40	40
12.0	40	40
18.0	50	50
24.0	50	50
30.0	55	55
33.0	60	60
—	—	—
—	—	—
—	—	—
—	—	—

COSEL

Model	LEA150F-5
Item	Overcurrent Protection 過電流保護
Object	+5.0V30.00A

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。
3.5V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]
5.00	36.96	37.09	37.15
4.75	37.13	37.25	37.27
4.50	37.28	37.37	37.38
4.00	37.42	37.47	37.49
3.50	37.55	37.56	37.62
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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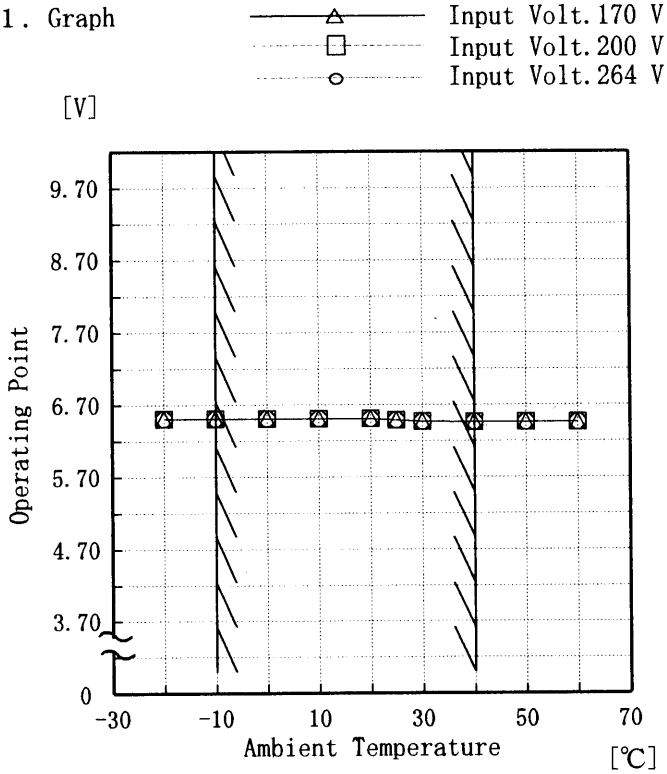
Model	LEA150F-5
Item	Overvoltage Protection 過電圧保護
Object	+5.0V30A

Testing Circuitry Figure A

1. Graph



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

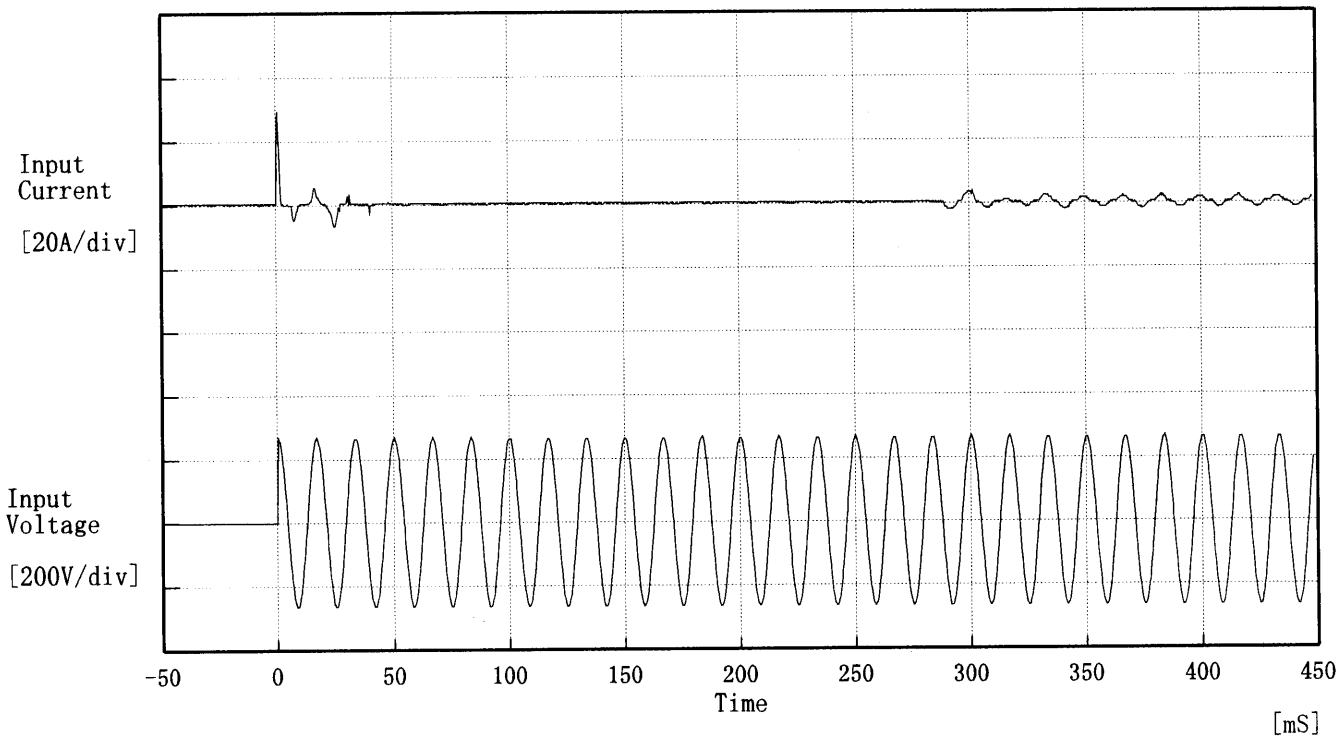
(注)斜線は定格周囲温度範囲を示す。

2. Values

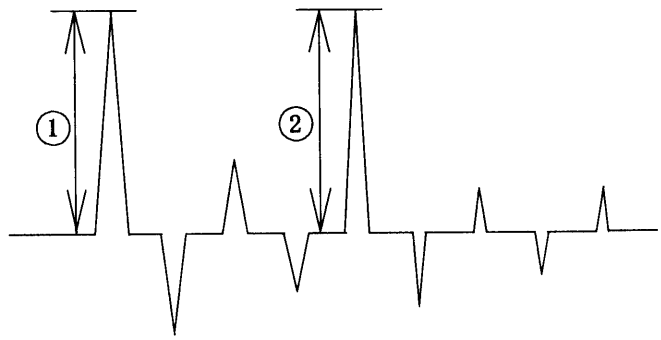
Ambient Temp. [℃]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Operating Point [V]		
-20	6.51	6.51	6.51
-10	6.51	6.51	6.51
0	6.51	6.51	6.51
10	6.51	6.51	6.51
20	6.51	6.51	6.51
25	6.49	6.49	6.49
30	6.47	6.47	6.47
40	6.46	6.46	6.46
50	6.46	6.46	6.46
60	6.46	6.46	6.46
—	—	—	—

COSEL

Model	LEA150F-5	Temperature 25℃
Item	Inrush Current 突入電流	Testing Circuitry Figure A
Object	――――――――	



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



COSEL

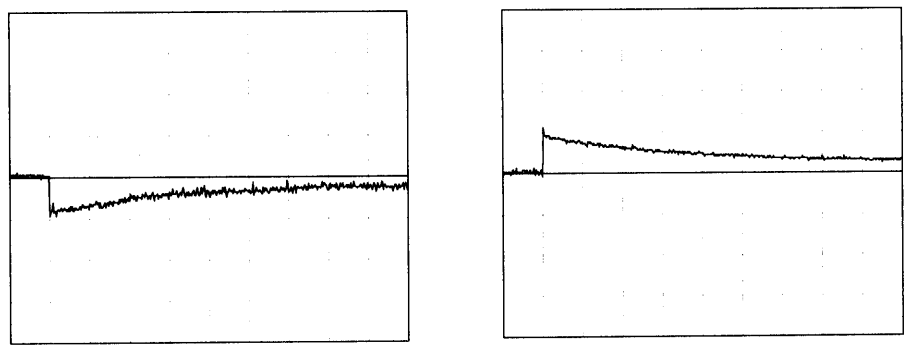
Model	LEA150F-5		
Item	Dynamic Load Responce 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+5V30A		

Input Volt. 200 V

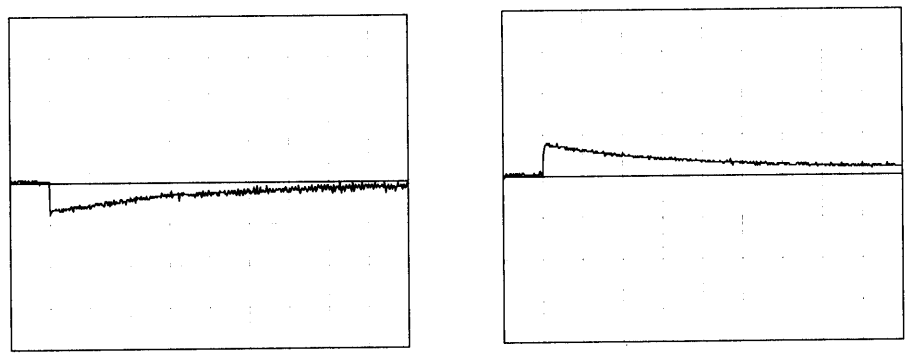
Cycle 1000 mS

Load Current

Min. Load ←→
Load 100 %



Min. Load ←→
Load 50 %



50 mV/div

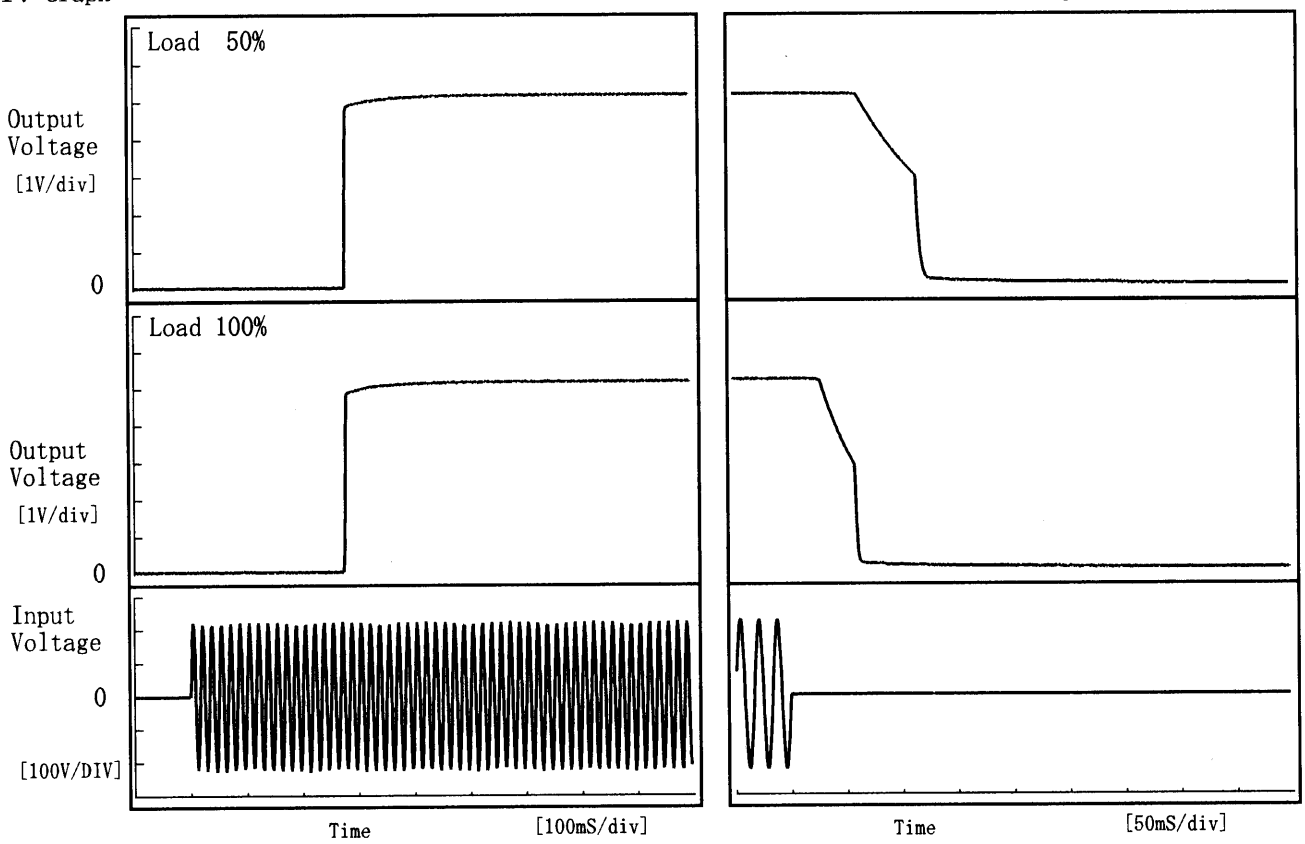
10 ms/div

COSEL

Model	LEA150F-5		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+5.0V30.00A		

1. Graph

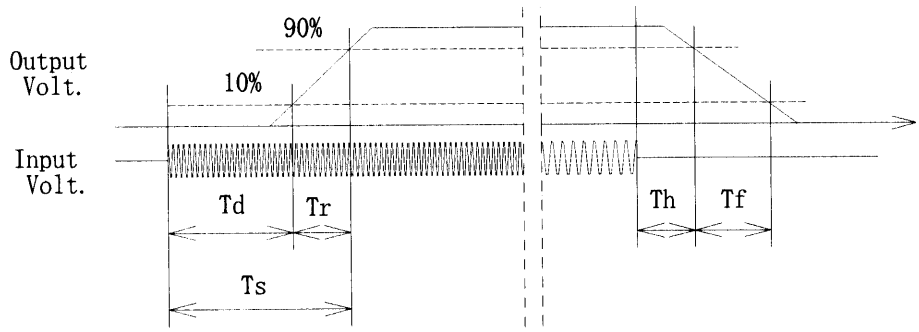
Input Volt. 170 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	277.0	2.0	279.0	74.0	46.8
100 %	275.5	3.0	278.5	34.3	28.3



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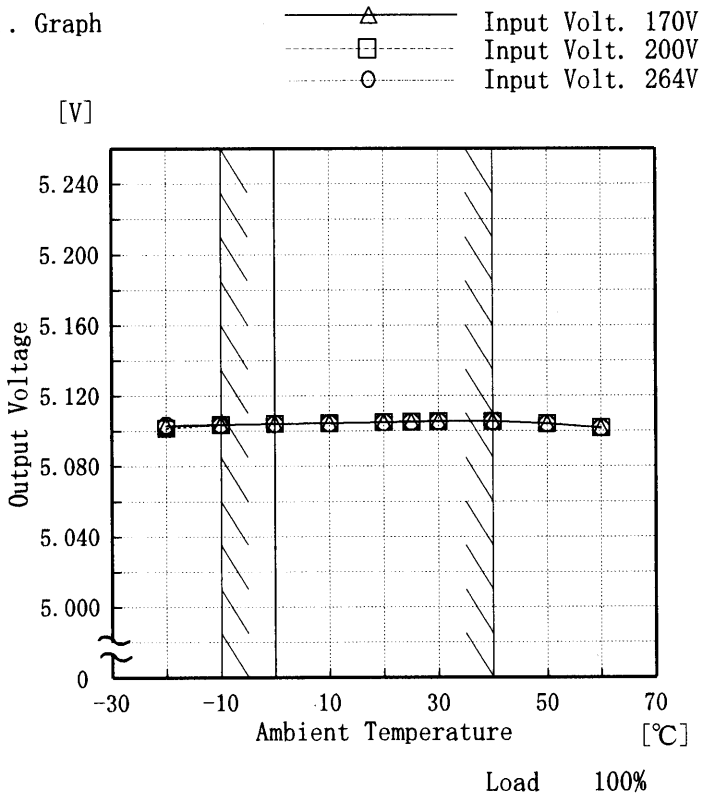
COSEL

Model	LEA150F-5
Item	Ambient Temperature Drift 周囲温度変動
Object	+5.0V30.00A

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

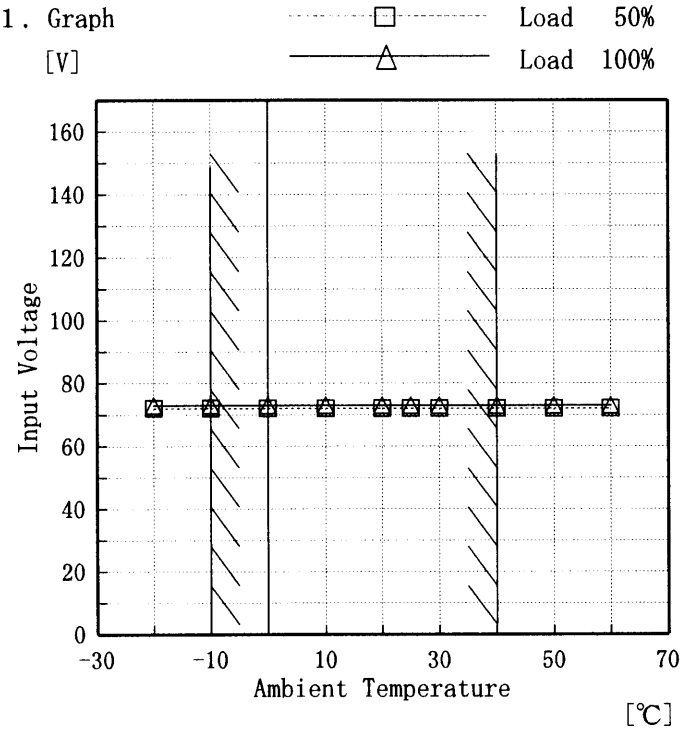
Temperature [℃]	Input Volt. 170[V] Output Volt. [V]	Input Volt. 200[V] Output Volt. [V]	Input Volt. 264[V] Output Volt. [V]
-20	5.103	5.102	5.103
-10	5.104	5.104	5.104
0	5.104	5.104	5.104
10	5.104	5.104	5.104
20	5.105	5.105	5.105
25	5.105	5.105	5.105
30	5.106	5.106	5.106
40	5.106	5.106	5.106
50	5.104	5.104	5.104
60	5.102	5.102	5.102
—	—	—	—

COSEL

Model	LEA150F-5
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+5V30A

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

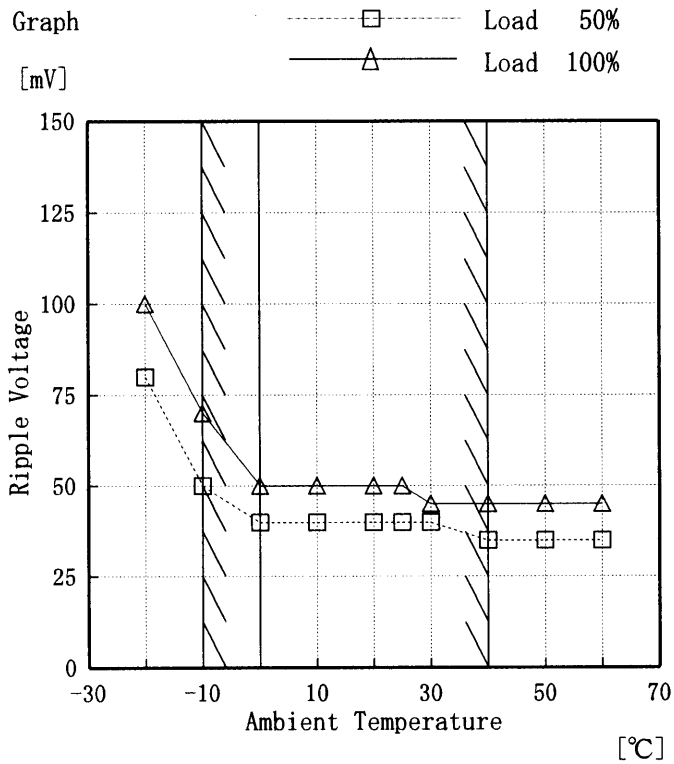
Ambient Temp. [℃]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	72	73
-10	72	73
0	72	73
10	72	73
20	72	73
25	72	73
30	72	73
40	72	73
50	72	73
60	72	73
—	—	—

COSEL

Model	LEA150F-5
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）
Object	+5.0V30.00A

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

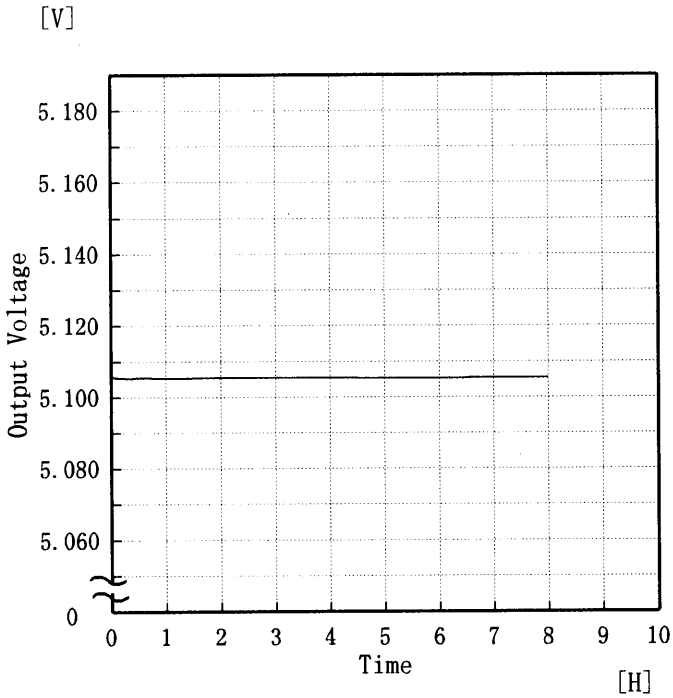
Ambient Temp. [℃]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]
-20	80	100
-10	50	70
0	40	50
10	40	50
20	40	50
25	40	50
30	40	45
40	35	45
50	35	45
60	35	45
—	—	—

COSEL

Model	LEA150F-5
Item	Time Lapse Drift 経時ドリフト
Object	+5.0V30.00A

Temperature 25 ℃
Testing Circuitry Figure A

1. Graph



Input Volt. 200V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	5.106
0.5	5.105
1.0	5.105
2.0	5.105
3.0	5.105
4.0	5.105
5.0	5.105
6.0	5.105
7.0	5.105
8.0	5.105

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COSEL

Model	LEA150F-5	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+5.0V30.00A	

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 : -10～40 ℃
Input Voltage : 170～264 V
Load Current : 0.00～30.00 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 -10～40 ℃
入力電圧 170～264 V
負荷電流 0.00～30.00 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	40	200	0.00	5.120	±8	±0.2
Minimum Voltage	-10	264	30.00	5.104		

COSEL

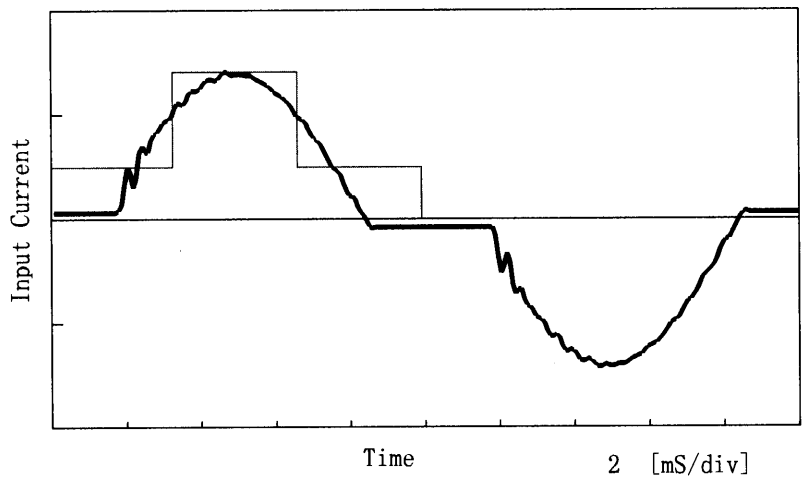
Model	LEA150F-5		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

―― Input Current

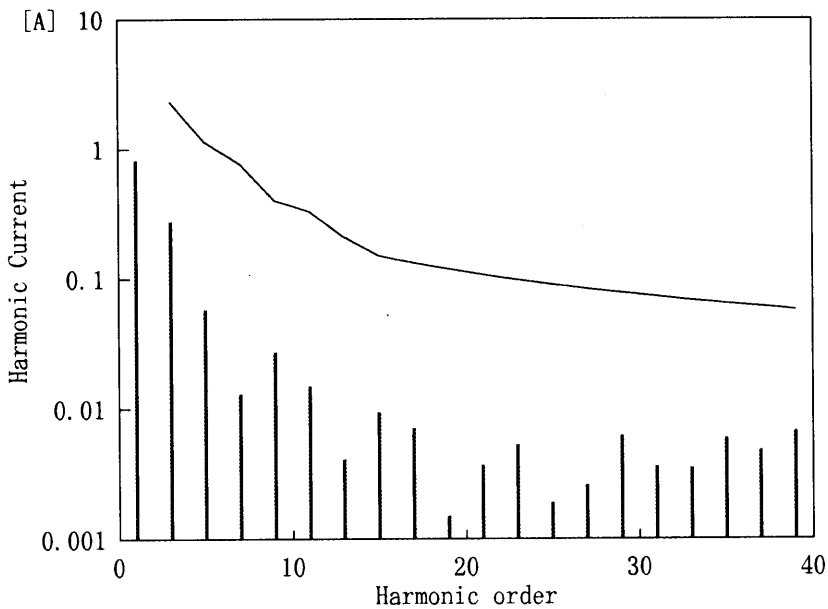
―― Envelope of the input current to classify equipment as Class D
ｸﾗｽDの機器を決定するための入力電流包絡線

1 A/div



Conditions	Values
Input Voltage [V]	231
Input Current [A]	0.869
Active Power [W]	187
Apparent Power [VA]	200.8
Frequency [Hz]	50
Power Factor	0.931
Output Power [W]	150

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	—	0.82030
2	—	0.00060
3	2.29004	0.27590
4	—	0.00010
5	1.13506	0.05800
6	—	0.00000
7	0.76667	0.01300
8	—	0.00000
9	0.39827	0.02720
10	—	0.00010
11	0.32857	0.01480
12	—	0.00030
13	0.20909	0.00410
14	—	0.00010
15	0.14935	0.00940
16	—	0.00000
17	0.13178	0.00710
18	—	0.00000
19	0.11791	0.00150
20	—	0.00010
21	0.10668	0.00370
22	—	0.00010
23	0.09740	0.00530
24	—	0.00010
25	0.08961	0.00190
26	—	0.00000
27	0.08297	0.00260
28	—	0.00000
29	0.07725	0.00620
30	—	0.00000
31	0.07227	0.00360
32	—	0.00010
33	0.06789	0.00350
34	—	0.00010
35	0.06401	0.00590
36	—	0.00010
37	0.06055	0.00480
38	—	0.00000
39	0.05744	0.00670
40	—	0.00010

COSEL

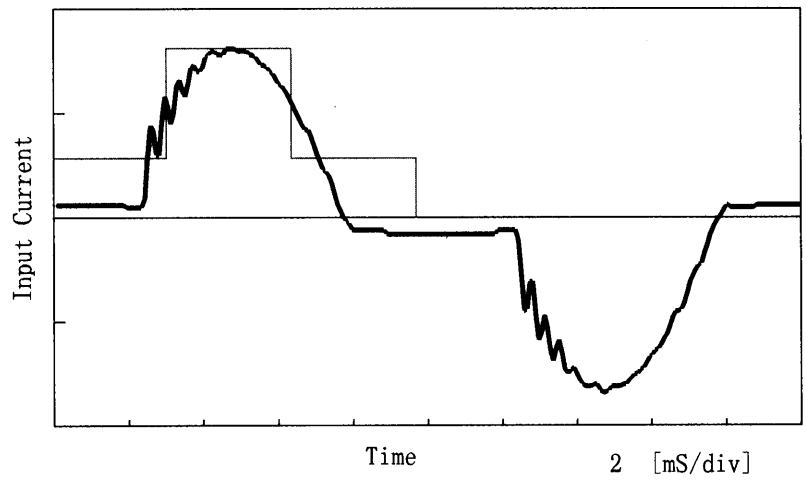
Model	LEA150F-5		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	――――		

1. Input Current Waveform

―― Input Current

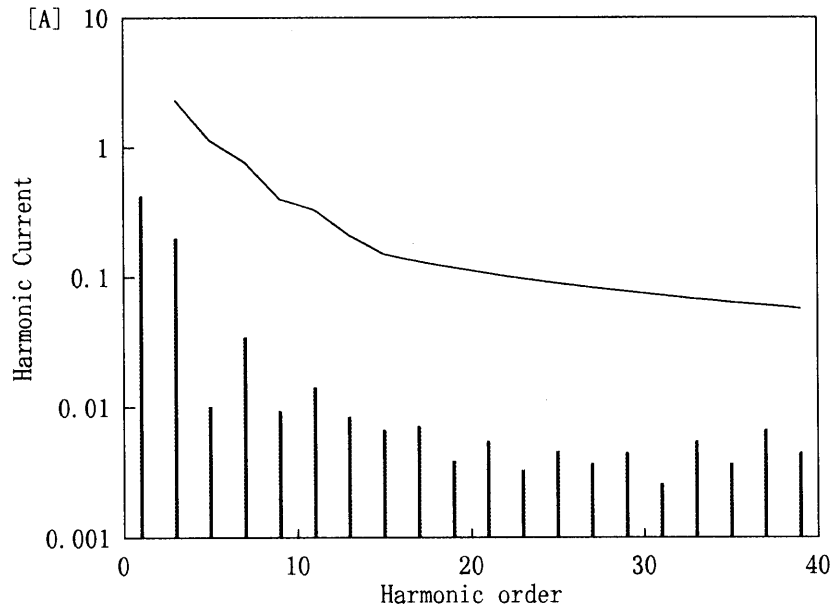
―― Envelope of the input current to classify equipment as Class D
ｸﾗｽDの機器を決定するための入力電流包絡線

0.5 A/div



Conditions	Values
Input Voltage [V]	231
Input Current [A]	0.473
Active Power [W]	95.5
Apparent Power[VA]	109.4
Frequency [Hz]	50
Power Factor	0.873
Output Power [W]	75

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	—	0.42520
2	—	0.00060
3	2.29004	0.20160
4	—	0.00000
5	1.13506	0.01020
6	—	0.00000
7	0.76667	0.03470
8	—	0.00010
9	0.39827	0.00940
10	—	0.00010
11	0.32857	0.01430
12	—	0.00010
13	0.20909	0.00850
14	—	0.00000
15	0.14935	0.00670
16	—	0.00000
17	0.13178	0.00720
18	—	0.00010
19	0.11791	0.00390
20	—	0.00010
21	0.10668	0.00550
22	—	0.00000
23	0.09740	0.00330
24	—	0.00000
25	0.08961	0.00460
26	—	0.00010
27	0.08297	0.00370
28	—	0.00010
29	0.07725	0.00450
30	—	0.00010
31	0.07227	0.00260
32	—	0.00000
33	0.06789	0.00550
34	—	0.00010
35	0.06401	0.00370
36	—	0.00000
37	0.06055	0.00670
38	—	0.00000
39	0.05744	0.00450
40	—	0.00010

COSEL

Model	LEA150F-5
Item	Condensation 結露特性
Object	+5V30A

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]	5.106	Input Volt.: 200V, Load Current:30A
Line Regulation [mV]	1	Input Volt.: 170～200V, Load Current:30A
Load Regulation [mV]	13	Input Volt.: 200V, Load Current:0～30A

COSEL

Model	LEA150F-5		
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	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.33	0.46	0.54

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	LEA150F-5		
Item	Line Noise Tolerance 入力雑音耐量	Temperature Testing Circuitry	25℃ Figure C
Object	+5V30A		

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	LEA150F-5		
Item	Conducted Emission 雑音端子電圧	Temperature Testing Circuitry	25℃ Figure D
Object	――――――		

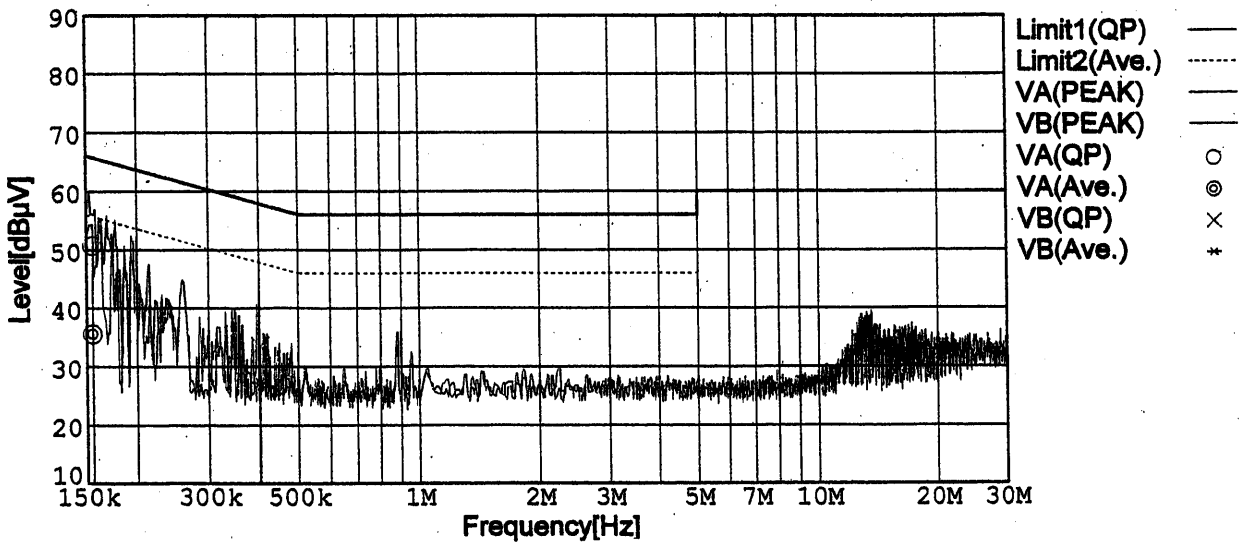
1. Graph

Remarks

Input Volt. 230V (CISPR Pub22 Class B)

Load 100 %

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



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COSEL

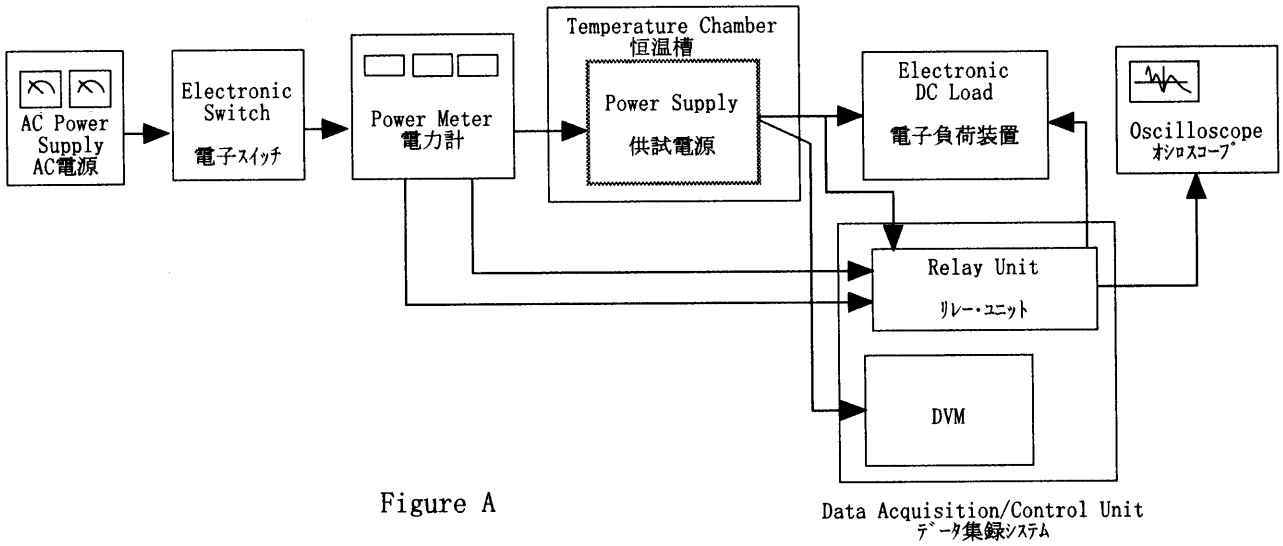

Figure A

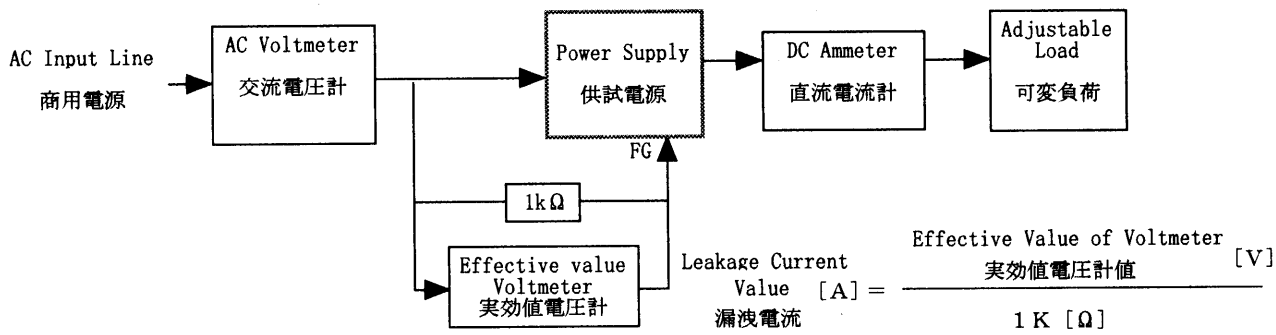

Figure B(DENTORI)

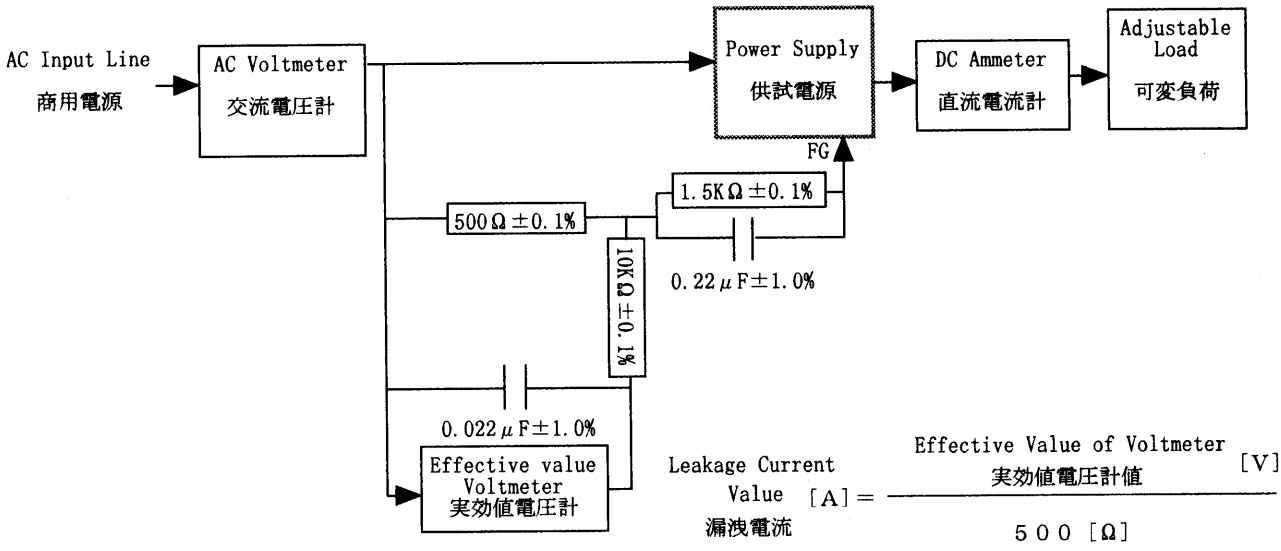

Figure B (IEC60950)

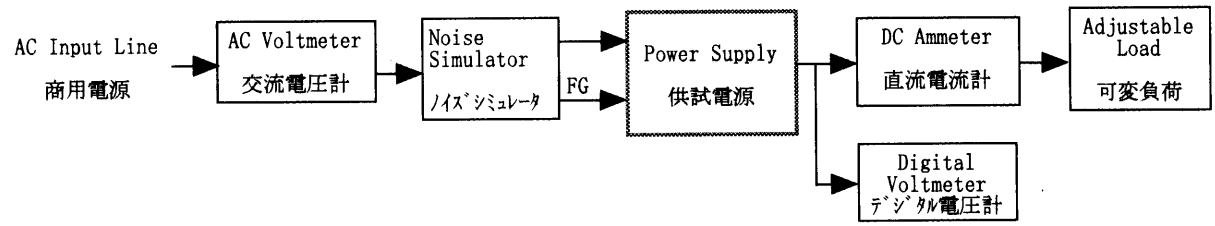

Figure C

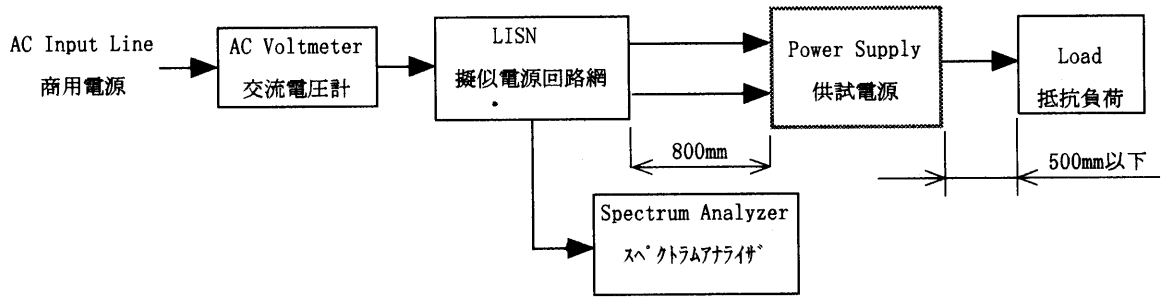

Figure D

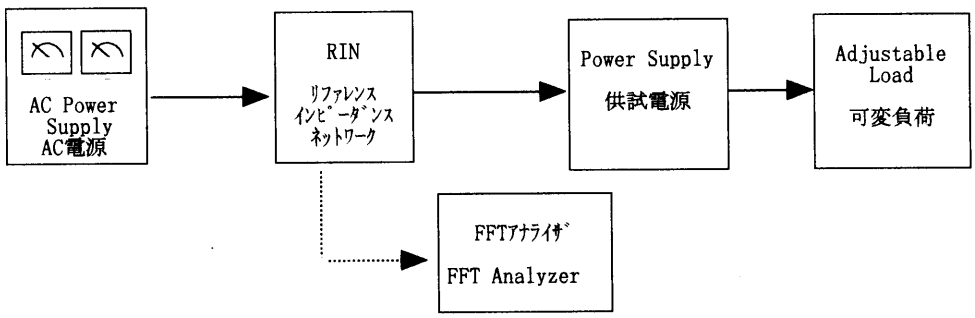

Figure E