COSEL

参考資料

TEST DATA OF LEP100F-48

(100V INPUT)

Regulated DC Power Supply

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コーセル株式会社

COSEL CO.,LTD.

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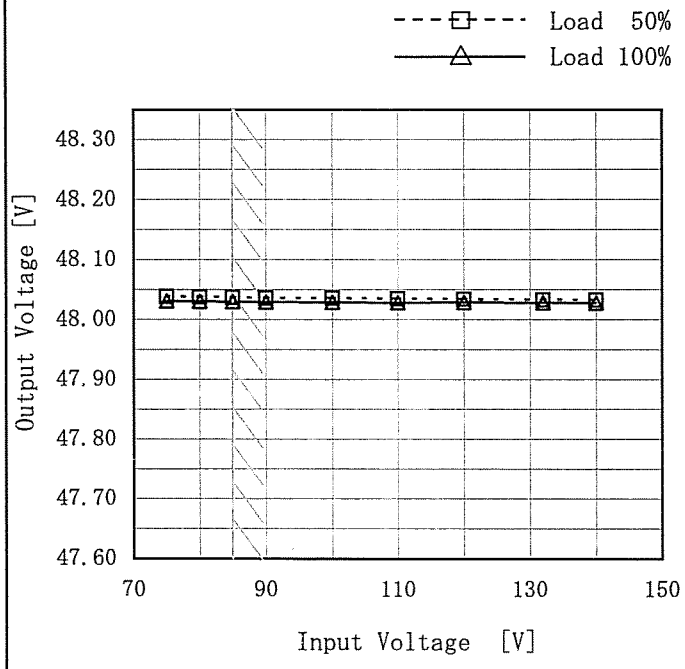
Model	LEP100F-48
Item	Line Regulation 静的入力変動
Object	+48V2.1A

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%
75	48.038	48.031
80	48.038	48.030
85	48.037	48.030
90	48.036	48.029
100	48.035	48.029
110	48.035	48.028
120	48.034	48.029
132	48.033	48.028
140	48.033	48.028

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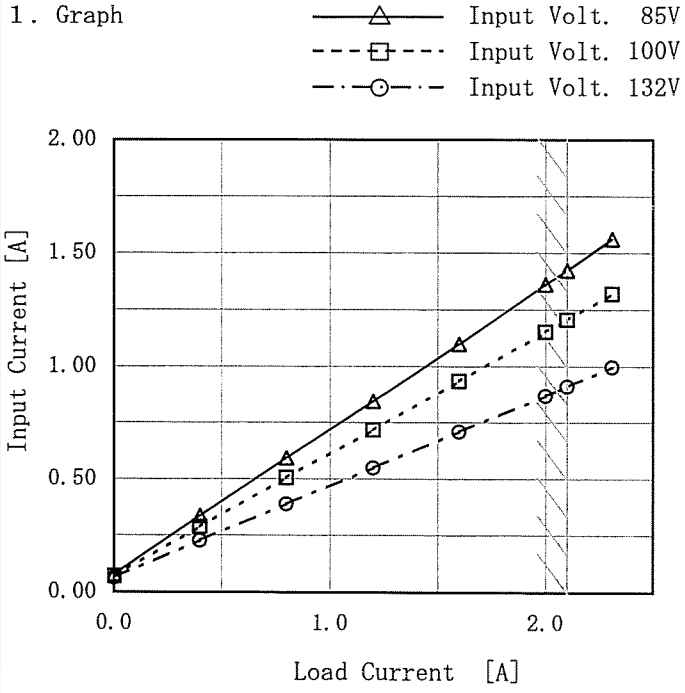
Model	LEP100F-48
Item	Input Current (by Load Current) 入力電流（負荷特性）
Object	————

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

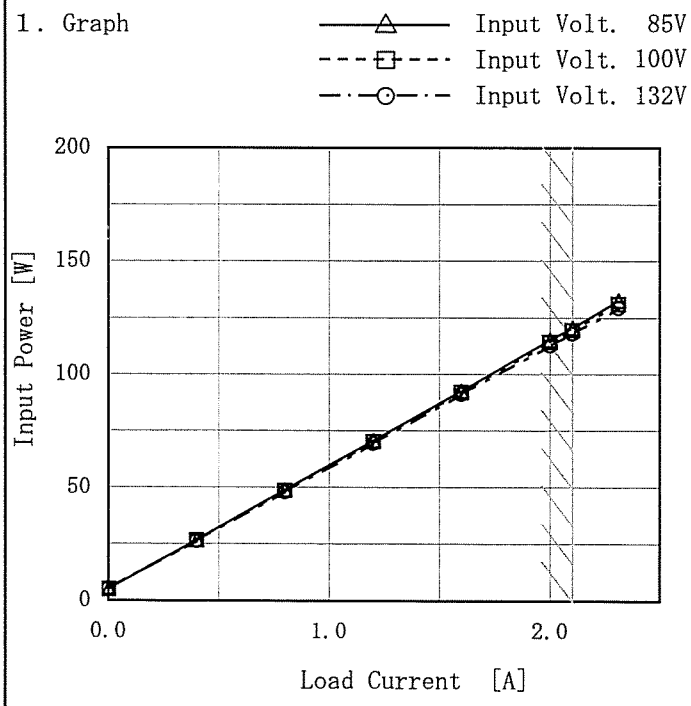
Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.078	0.070	0.062
0.40	0.336	0.288	0.227
0.80	0.592	0.505	0.389
1.20	0.844	0.718	0.549
1.60	1.098	0.934	0.710
2.00	1.361	1.153	0.868
2.10	1.423	1.206	0.910
2.31	1.562	1.320	0.996
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEP100F-48
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Object	————————

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

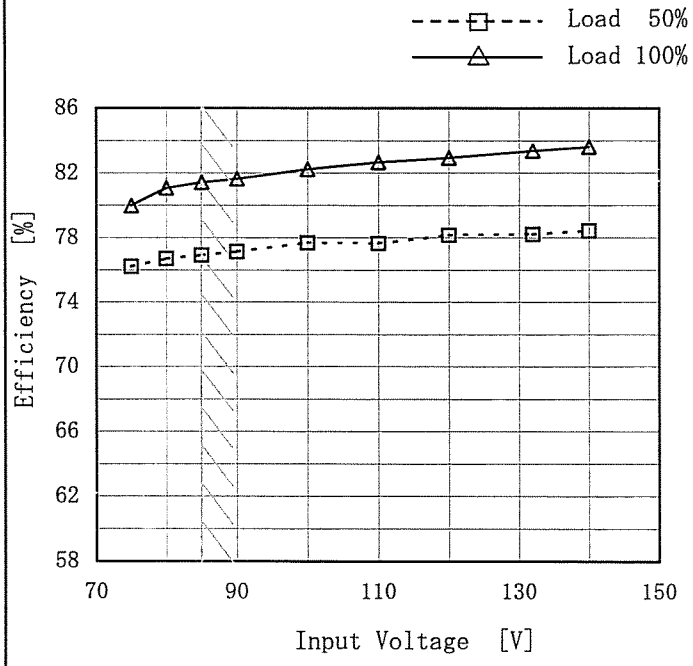
Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	5.1	5.0	5.2
0.40	26.8	26.5	26.4
0.80	48.9	48.5	47.9
1.20	70.7	70.2	69.4
1.60	92.5	91.9	91.0
2.00	115.1	114.2	112.6
2.10	120.5	119.5	118.0
2.31	132.6	131.0	129.4
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEP100F-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

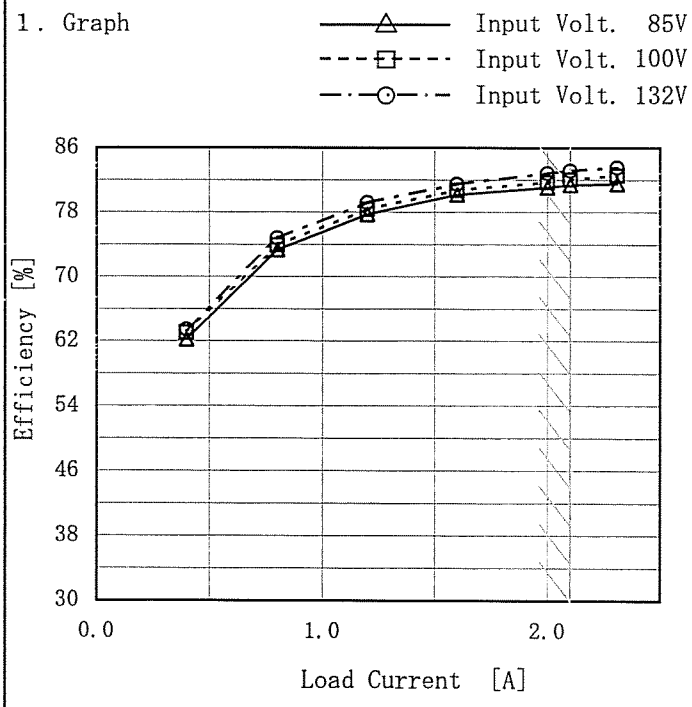
Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	76.2	80.0
80	76.7	81.1
85	76.9	81.4
90	77.1	81.6
100	77.7	82.2
110	77.6	82.7
120	78.2	82.9
132	78.2	83.4
140	78.4	83.6

COSEL

Model	LEP100F-48
Item	Efficiency (by Load Current) 効率（負荷特性）
Object	――――――

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

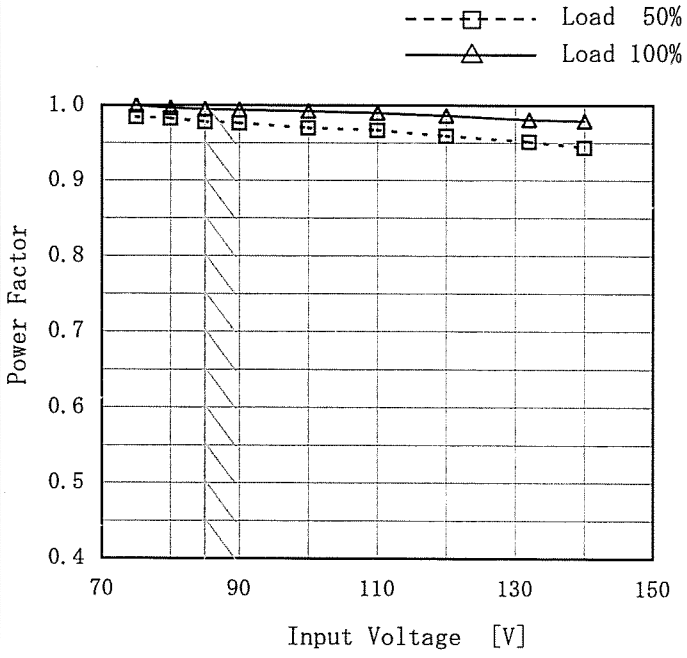
Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
0.40	62.2	63.0	63.4
0.80	73.3	73.9	74.8
1.20	77.7	78.4	79.2
1.60	80.2	80.7	81.5
2.00	81.1	81.7	82.9
2.10	81.4	82.1	83.2
2.31	81.5	82.6	83.6
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEP100F-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%
75	0.984	0.999
80	0.983	0.997
85	0.978	0.995
90	0.976	0.994
100	0.970	0.993
110	0.967	0.990
120	0.959	0.987
132	0.952	0.981
140	0.944	0.979

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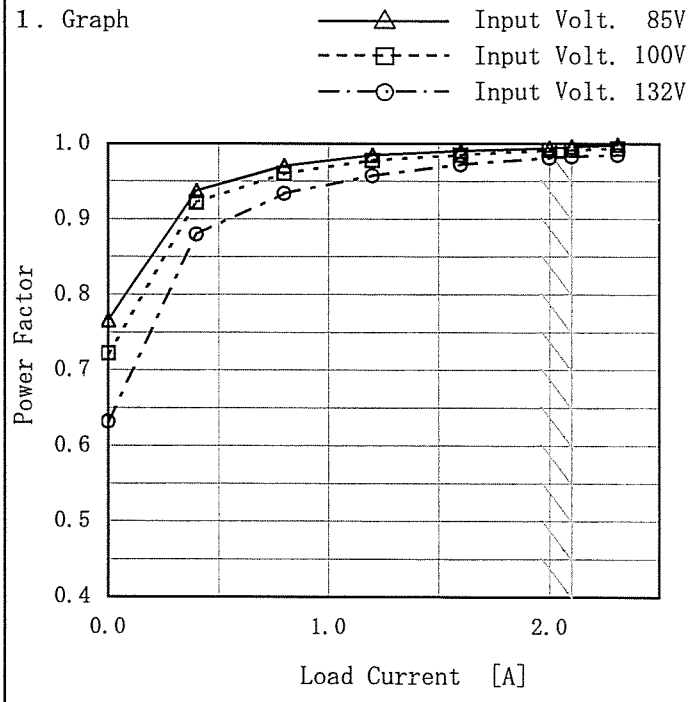
Model	LEP100F-48
Item	Power Factor (by Load Current) 力率（負荷特性）
Object	————————

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

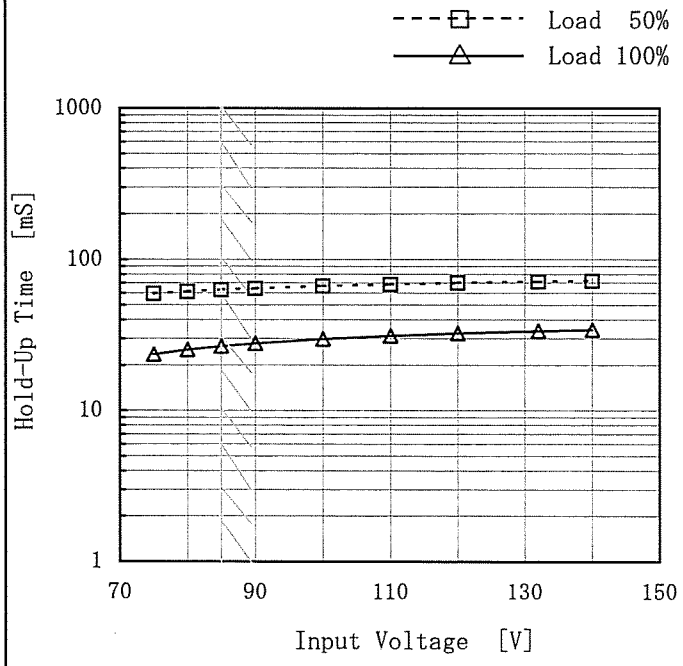
Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.766	0.722	0.632
0.40	0.937	0.922	0.880
0.80	0.970	0.960	0.934
1.20	0.985	0.978	0.957
1.60	0.990	0.985	0.972
2.00	0.994	0.991	0.981
2.10	0.996	0.992	0.983
2.31	0.998	0.993	0.985
--	—	—	—
--	—	—	—
--	—	—	—

COSEL

Model	LEP100F-48
Item	Hold-Up Time 出力保持時間
Object	+48V2.1A

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範囲を保持しているところまでの時間。
（注）斜線は定格入力電圧範囲を示す。

2. Values

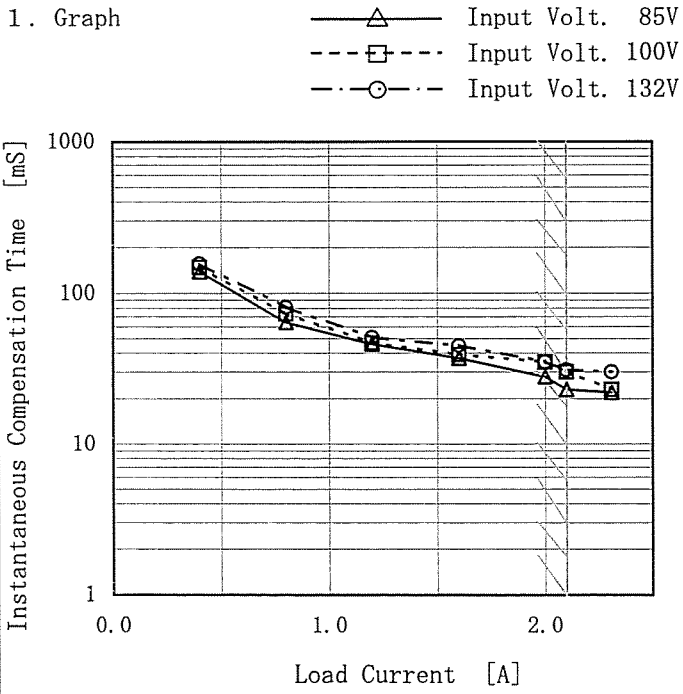
Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	59	24
80	61	25
85	63	27
90	64	28
100	67	30
110	68	31
120	70	33
132	71	34
140	72	35

COSEL

Model	LEP100F-48
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+48V2.1A

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

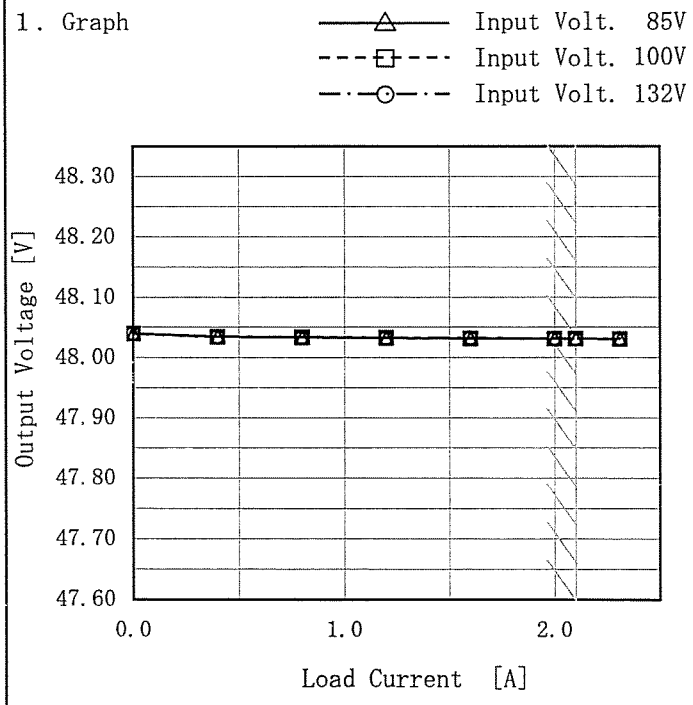
Load Current [A]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
0.40	139	148	156
0.80	64	73	81
1.20	46	47	51
1.60	37	39	45
2.00	28	35	35
2.10	23	30	31
2.31	22	23	30
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	LEP100F-48
Item	Load Regulation 静的負荷変動
Object	+48V2.1A

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

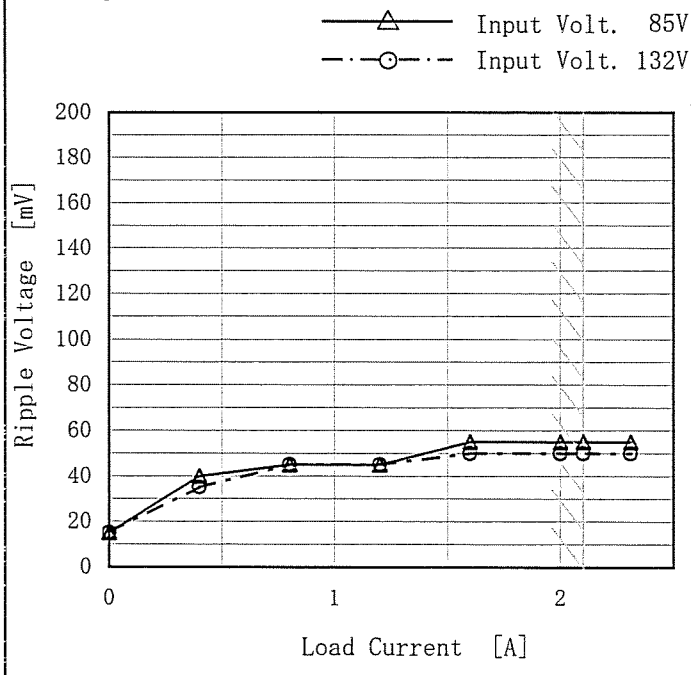
Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	48.040	48.040	48.040
0.40	48.035	48.034	48.034
0.80	48.034	48.034	48.033
1.20	48.033	48.033	48.032
1.60	48.032	48.032	48.032
2.00	48.032	48.031	48.032
2.10	48.032	48.031	48.031
2.31	48.031	48.031	48.031
--	—	—	—
--	—	—	—

COSEL

Model	LEP100F-48
Item	Ripple Voltage (by Load Current) リップル電圧（負荷特性）
Object	+48V2.1A

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

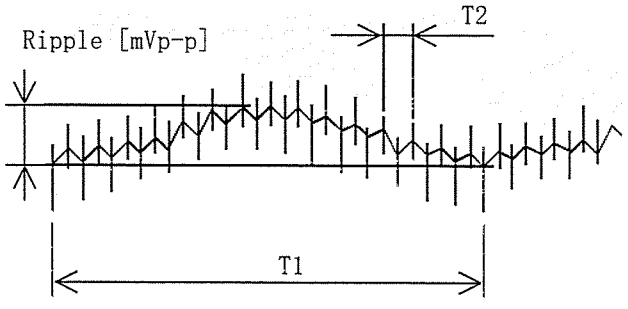


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

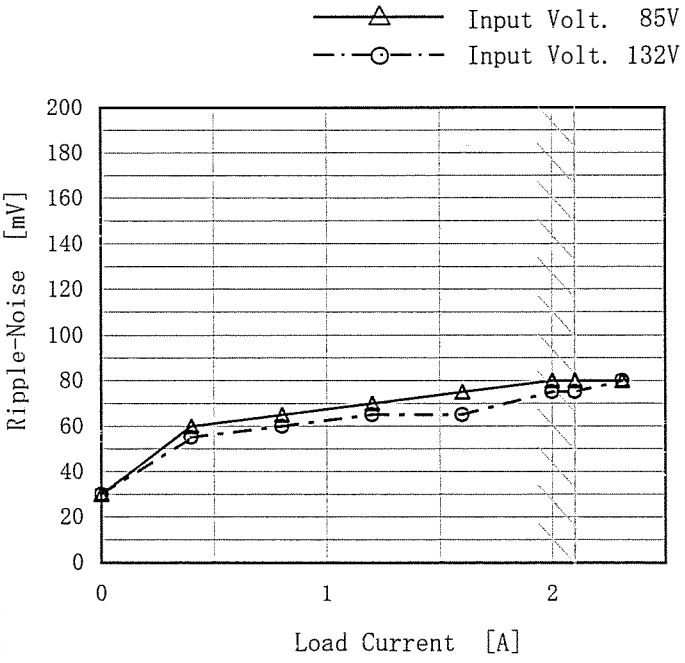
Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	15	15
0.40	40	35
0.80	45	45
1.20	45	45
1.60	55	50
2.00	55	50
2.10	55	50
2.31	55	50
--	—	—
--	—	—
--	—	—

COSEL

Model	LEP100F-48
Item	Ripple-Noise リップルノイズ
Object	+48V2.1A

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

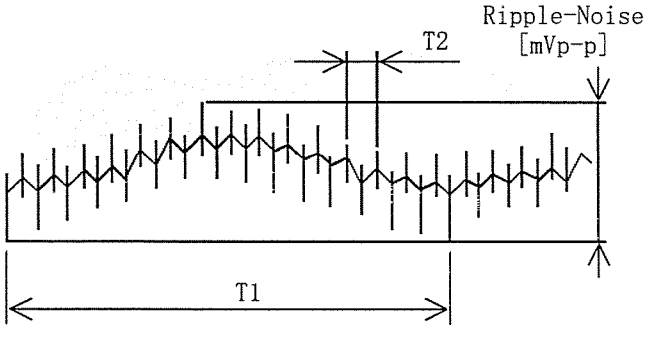


Fig. Complex Ripple Wave Form
図　リップル波形詳細図

2. Values

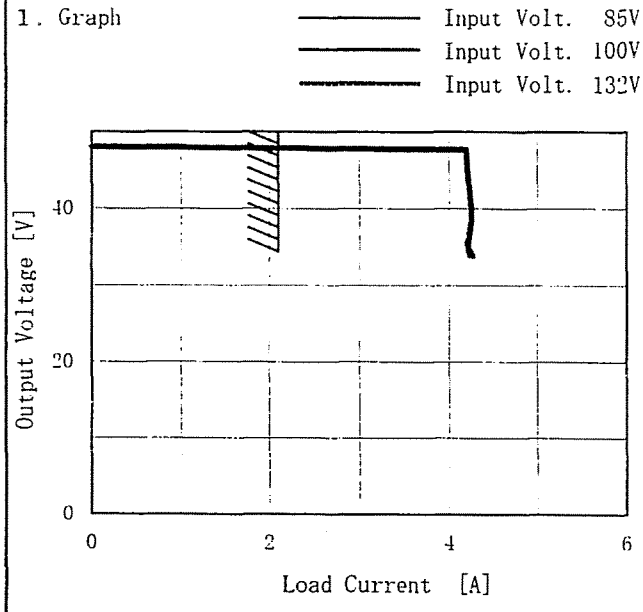
Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	30	30
0.40	60	55
0.80	65	60
1.20	70	65
1.60	75	65
2.00	80	75
2.10	80	75
2.31	80	80
--	—	—
--	—	—
--	—	—

COSEL

Model	LEP100F-48
Item	Overcurrent Protection 過電流保護
Object	+48V2.1A

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。

Intermittent operation occurs when the output voltage is from 33.6V to 0V.
33.6V～0V間は、間欠モードとなる。

2. Values

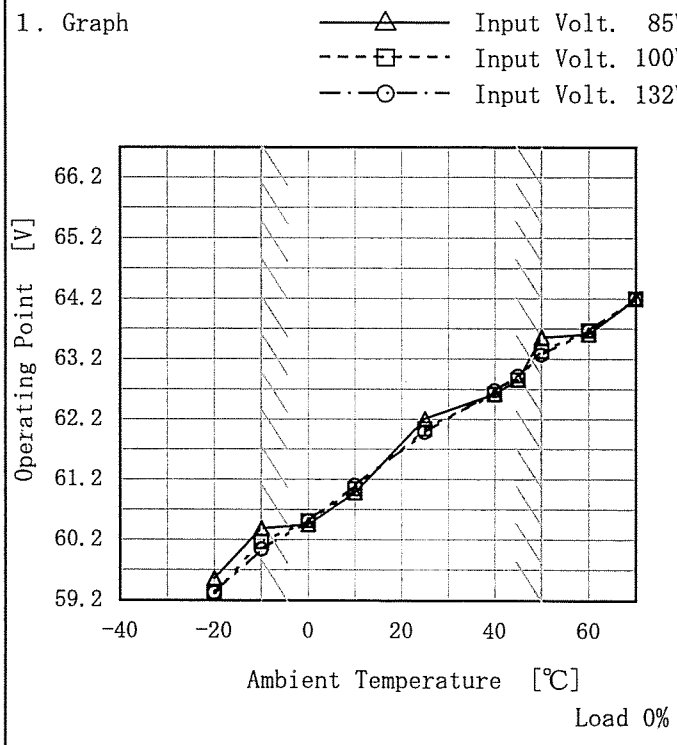
Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
48.0	4.20	4.19	4.19
45.6	4.21	4.21	4.21
43.2	4.22	4.22	4.23
38.4	4.26	4.26	4.25
33.6	4.24	4.26	4.28
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—

COSEL

Model	LEP100F-48
Item	Overvoltage Protection 過電圧保護
Object	+48V2.1A

Testing Circuitry Figure A

1. Graph



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

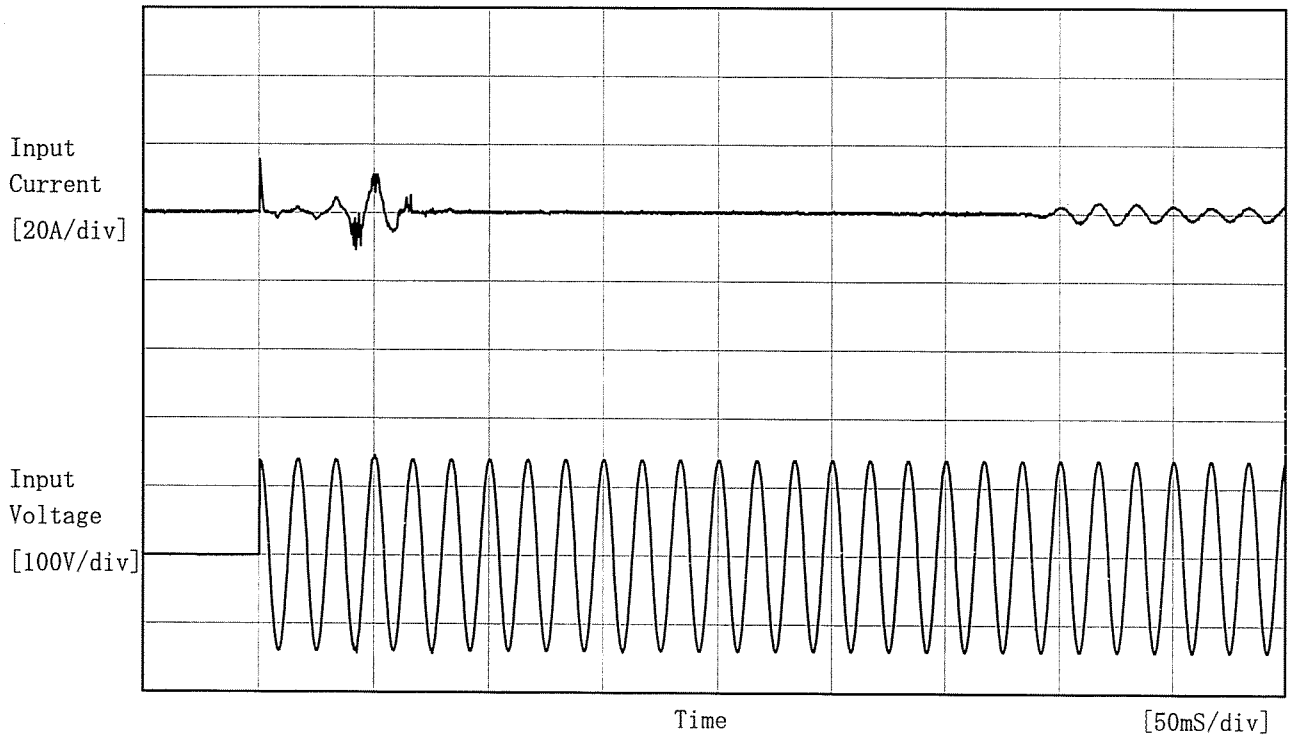
(注) 斜線は定格周囲温度範囲を示す。

2. Values

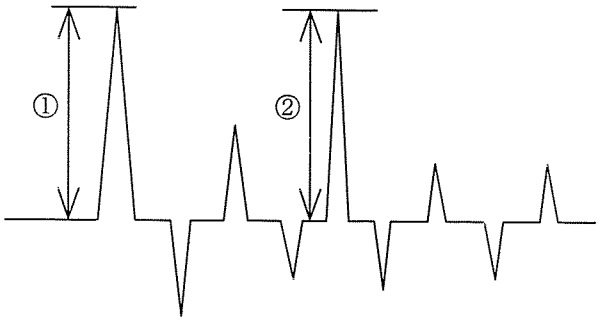
Ambient Temperature [℃]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	59.56	59.32	59.32
-10	60.39	60.16	60.04
0	60.45	60.51	60.51
10	60.98	61.04	61.10
25	62.21	62.04	61.98
40	62.62	62.62	62.68
45	62.86	62.86	62.92
50	63.56	63.33	63.27
60	63.61	63.67	63.67
70	64.20	64.20	64.20
--	—	—	—

COSEL

Model	LEP100F-48		
Item	Inrush Current 突入電流	Temperature Testing Circuitry	25℃ Figure A
Object	————————		



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



COSEL

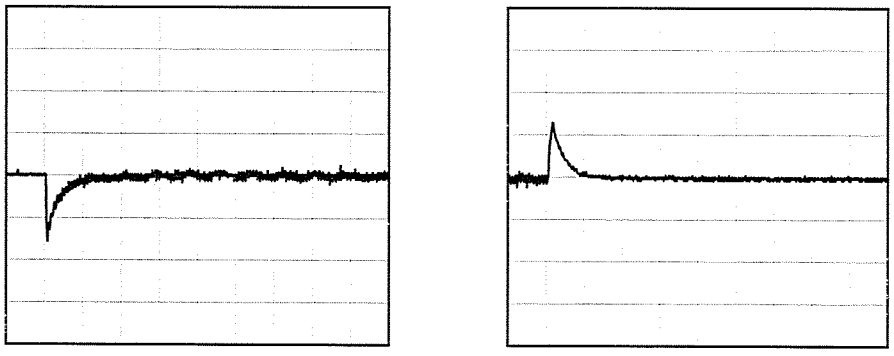
Model	LEP100F-48		
Item	Dynamic Load Response 動的負荷変動	Temperature Testing Circuitry	25℃ Figure A
Object	+48V2.1A		

Input Volt. 100 V

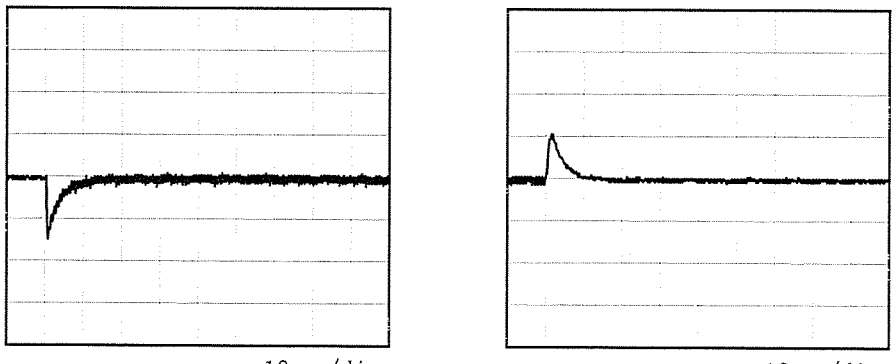
Cycle 1000 ms

Load Current

Min. Load (0A) ⟷
Load 100% (2.1A)



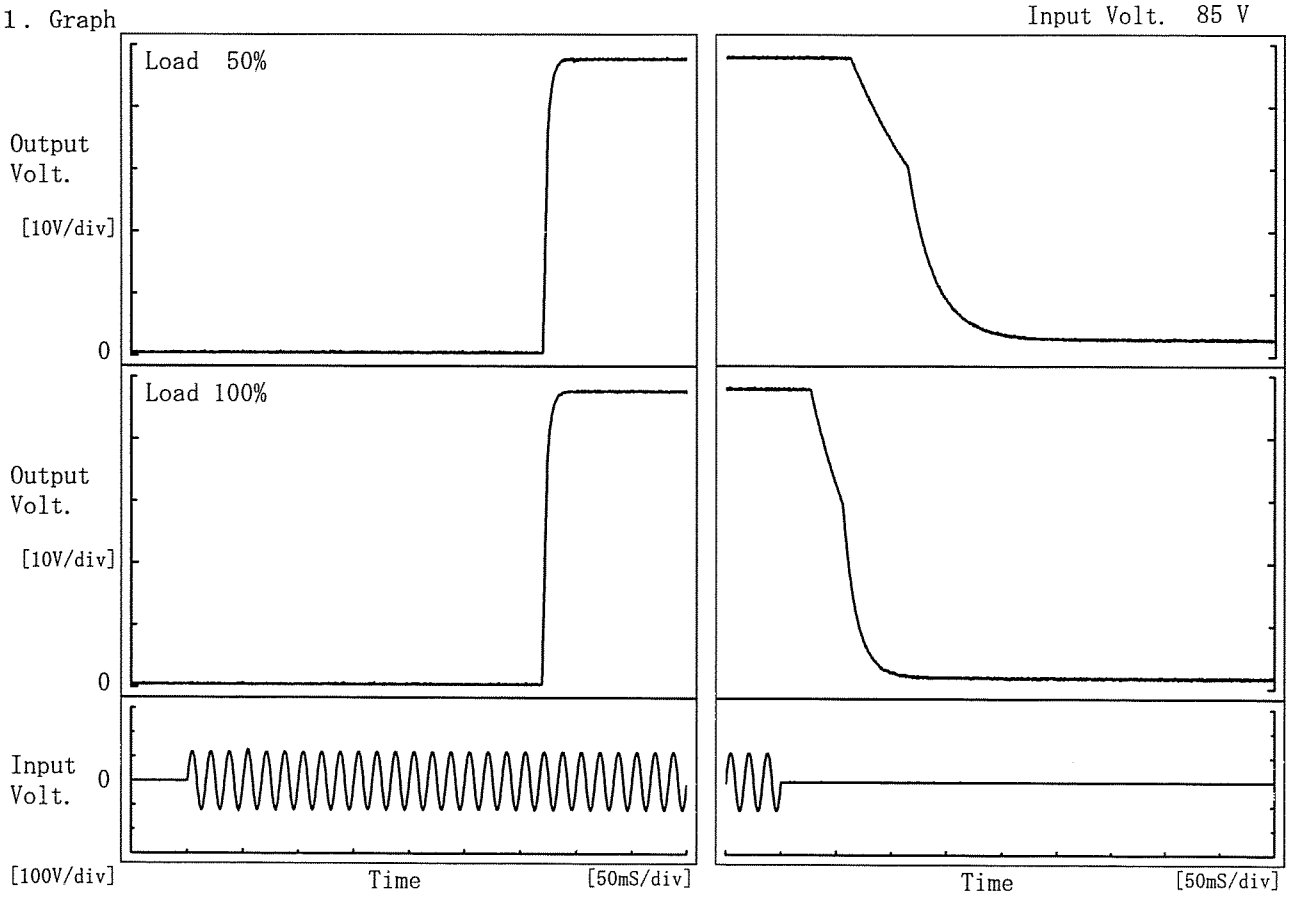
Min. Load (0A) ⟷
Load 50% (1.05A)



COSEL

Model	LEP100F-48		
Item	Rise and Fall Time 立上り、立下り時間	Temperature Testing Circuitry	25℃ Figure A
Object	+48V2.1A		

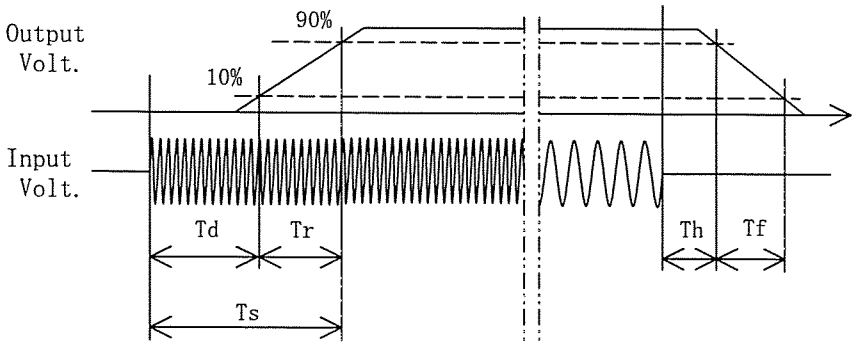
1. Graph



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	320.3	8.0	328.3	73.3	99.8
100 %	319.8	8.0	327.8	32.0	49.8

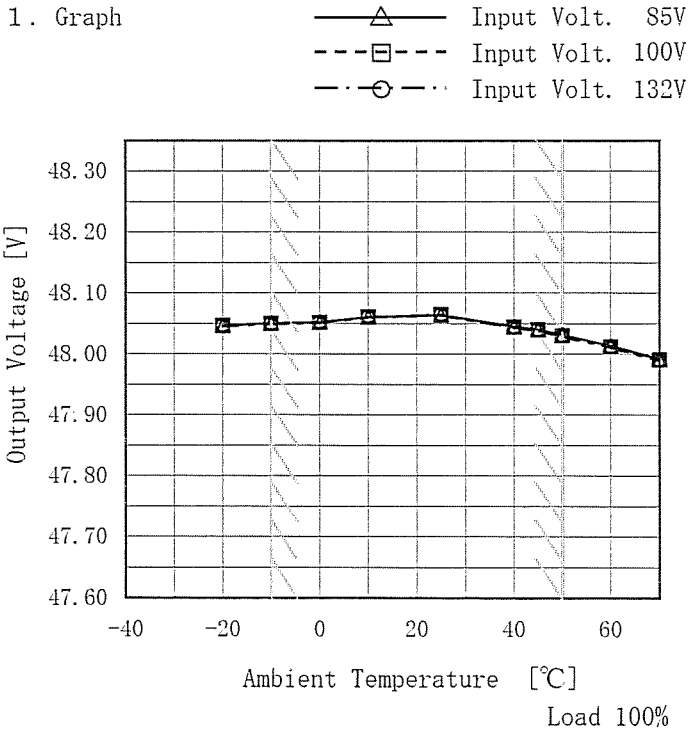


COSEL

Model	LEP100F-48
Item	Ambient Temperature Drift 周囲温度変動
Object	+48V2.1A

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

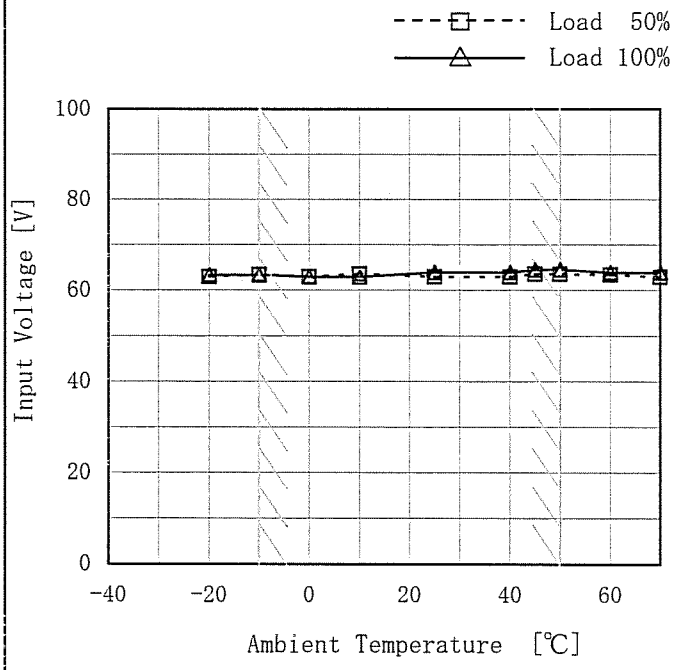
Ambient Temperature [℃]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	48.046	48.046	48.046
-10	48.051	48.050	48.049
0	48.052	48.052	48.052
10	48.061	48.061	48.061
25	48.064	48.065	48.064
40	48.045	48.044	48.043
45	48.041	48.040	48.039
50	48.032	48.030	48.029
60	48.014	48.012	48.011
70	47.992	47.991	47.989
--	—	—	—

COSEL

Model	LEP100F-48
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+48V2.1A

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

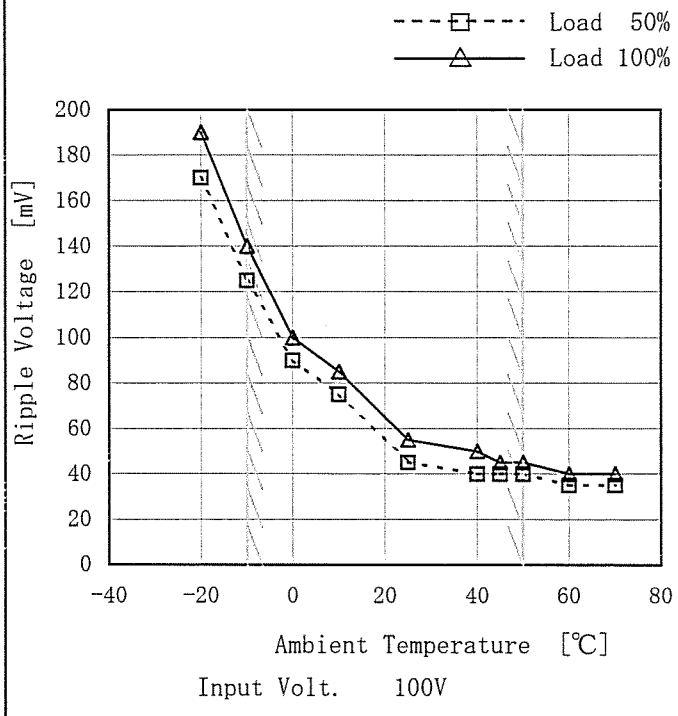
Ambient Temperature [℃]	Input Voltage [V]	
	Load 50%	Load 100%
-20	63	64
-10	64	64
0	63	63
10	64	63
25	63	64
40	63	64
45	64	65
50	64	65
60	64	64
70	63	64
--	—	—

COSEL

Model	LEP100F-48
Item	Ripple Voltage (by Ambient Temp.) リップル電圧（周囲温度特性）
Object	+48V2.1A

Testing Circuitry Figure A

1. Graph



Input Volt. 100V

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

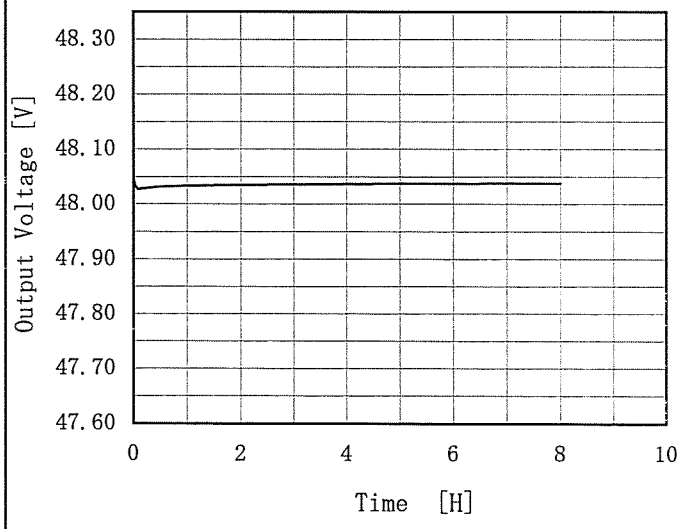
Ambient Temperature [℃]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	170	190
-10	125	140
0	90	100
10	75	85
25	45	55
40	40	50
45	40	45
50	40	45
60	35	40
70	35	40
--	—	—

COSEL

Model	LEP100F-48
Item	Time Lapse Drift 経時ドリフト
Object	+48V2.1A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	48.048
0.5	48.032
1.0	48.034
2.0	48.036
3.0	48.037
4.0	48.038
5.0	48.038
6.0	48.038
7.0	48.038
8.0	48.039

COSEL

Model	LEP100F-48
Item	Output Voltage Accuracy 定電圧精度
Object	+48V2.1A

Testing Circuitry Figure A

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 : 85 ～ 132V
Load Current : 0 ～ 2.1A

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

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

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 : 85 ～ 132V
負荷電流 : 0 ～ 2.1A

* 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		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	85	0	48.086	±19	±0.1
Minimum Voltage	50	132	2.1	48.048		

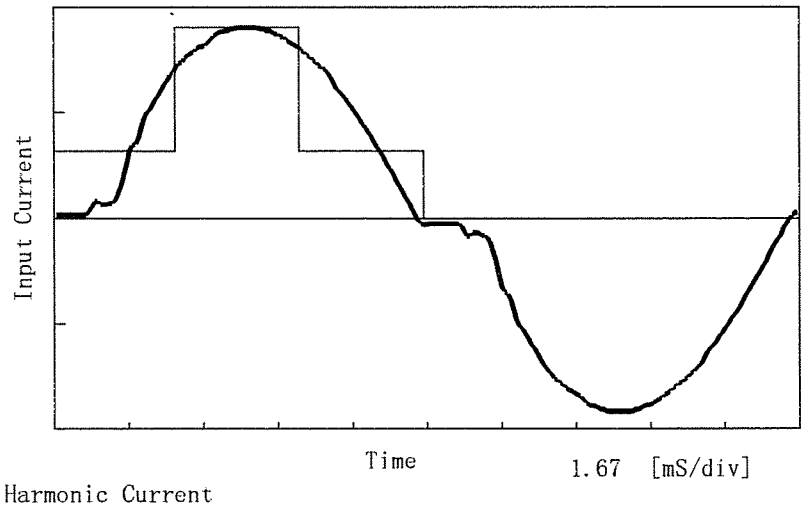
COSEL

Model	LEP100F-48		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	———		

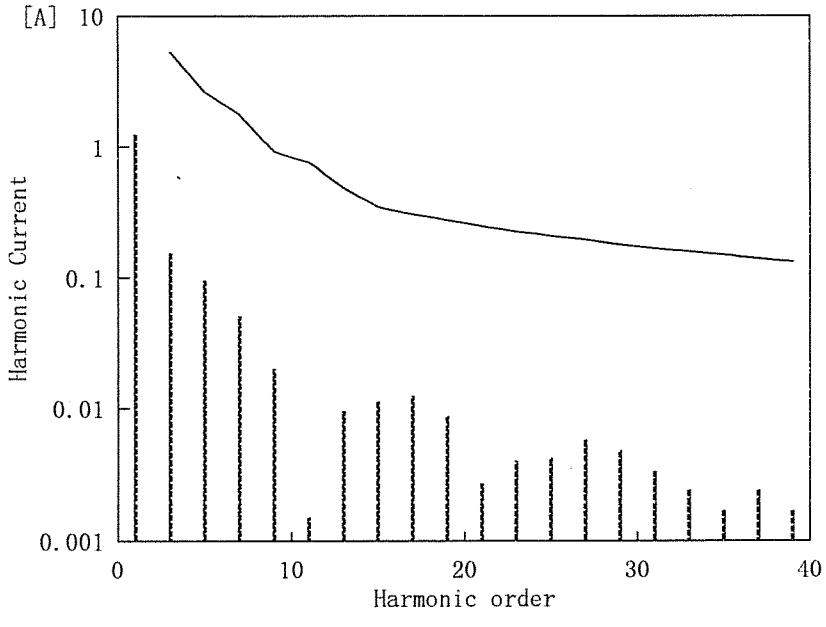
1. Input Current Waveform

——— 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



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

Conditions	Values
Input Voltage [V]	99.9
Input Current [A]	1.277
Active Power [W]	126.2
Apparent Power[VA]	127.6
Frequency [Hz]	60
Power Factor	0.989
Output Power [W]	100.8

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.26300
2	—	0.00060
3	5.29530	0.15340
4	—	0.00030
5	2.62462	0.09550
6	—	0.00030
7	1.77277	0.05110
8	—	0.00010
9	0.92092	0.02020
10	—	0.00010
11	0.75976	0.00150
12	—	0.00010
13	0.48348	0.00960
14	—	0.00010
15	0.34535	0.01130
16	—	0.00000
17	0.30472	0.01250
18	—	0.00000
19	0.27264	0.00870
20	—	0.00010
21	0.24668	0.00270
22	—	0.00010
23	0.22523	0.00400
24	—	0.00000
25	0.20721	0.00420
26	—	0.00010
27	0.19186	0.00570
28	—	0.00000
29	0.17863	0.00480
30	—	0.00010
31	0.16710	0.00330
32	—	0.00000
33	0.15698	0.00240
34	—	0.00000
35	0.14801	0.00170
36	—	0.00000
37	0.14000	0.00240
38	—	0.00000
39	0.13283	0.00170
40	—	0.00000

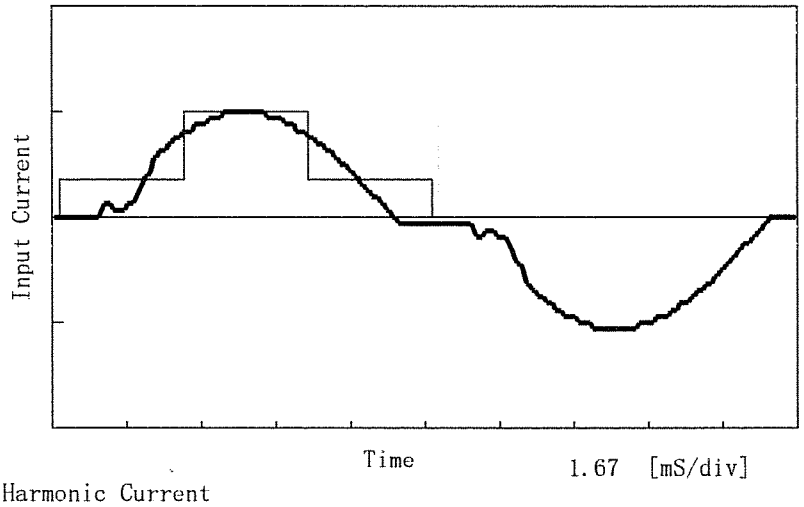
COSEL

Model	LEP100F-48		
Item	Harmonic Current 高調波電流	Temperature Testing Circuitry	25℃ Figure E
Object	————		

1. Input Current Waveform

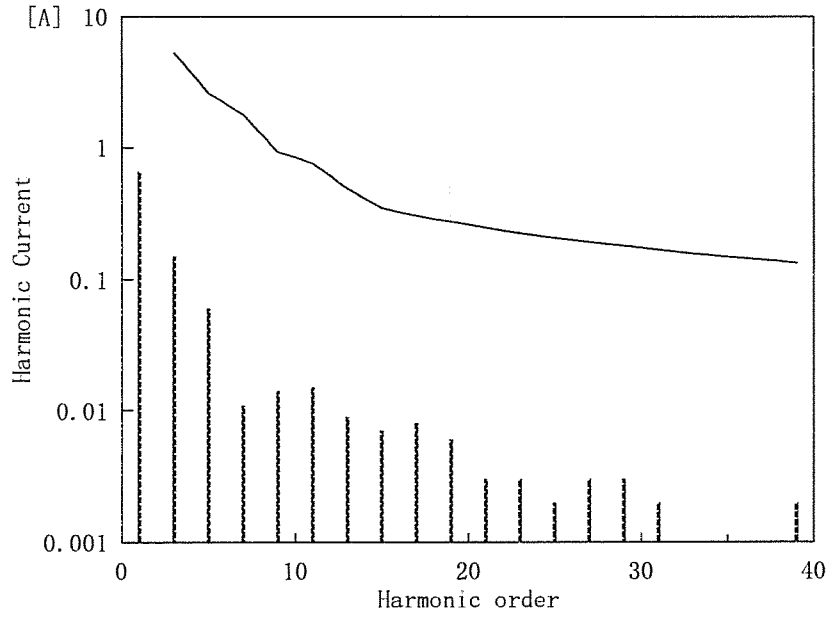
——— Input Current

——— 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]	100.2
Input Current [A]	0.677
Active Power [W]	65.6
Apparent Power[VA]	67.9
Frequency [Hz]	60
Power Factor	0.966
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	—	0.65600
2	—	0.00100
3	5.27944	0.15100
4	—	0.00000
5	2.61677	0.06000
6	—	0.00000
7	1.76747	0.01100
8	—	0.00000
9	0.91816	0.01400
10	—	0.00000
11	0.75749	0.01500
12	—	0.00000
13	0.48204	0.00900
14	—	0.00000
15	0.34431	0.00700
16	—	0.00000
17	0.30380	0.00800
18	—	0.00100
19	0.27182	0.00600
20	—	0.00100
21	0.24594	0.00300
22	—	0.00100
23	0.22455	0.00300
24	—	0.00000
25	0.20659	0.00200
26	—	0.00100
27	0.19128	0.00300
28	—	0.00000
29	0.17809	0.00300
30	—	0.00100
31	0.16660	0.00200
32	—	0.00000
33	0.15651	0.00100
34	—	0.00000
35	0.14756	0.00100
36	—	0.00000
37	0.13959	0.00100
38	—	0.00000
39	0.13243	0.00200
40	—	0.00100

COSEL

Model	LEP100F-48
Item	Condense 結露特性
Object	+48V2.1A

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]	48.031	Input Volt.:100V, Load Current.:2.1A
Line Regulation [mV]	3	Input Volt.:85～132V, Load Current.:2.1A
Load Regulation [mV]	9	Input Volt.:100V, Load Current.:0～2.1A

COSEL

Model	LEP100F-48		
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)DEN-AN	0.17	0.19	0.25
(B)IEC60950	0.17	0.20	0.25

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	LEP100F-48		
Item	Line Noise Tolerance 入力雑音耐量	Temperature Testing Circuitry	25℃ Figure C
Object	+48V2.1A		

1. Conditions

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

2. Results

Pulse Width [nS]	MODE	POLARITY	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
		−	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		−	OK	no fluctuation
1000	COMMON	+	OK	no fluctuation
		−	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		−	OK	no fluctuation

COSEL

Model	LEP100F-48		
Item	Conducted Emission 雑音端子電圧	Temperature Testing Circuitry	25℃ Figure D
Object	————————		

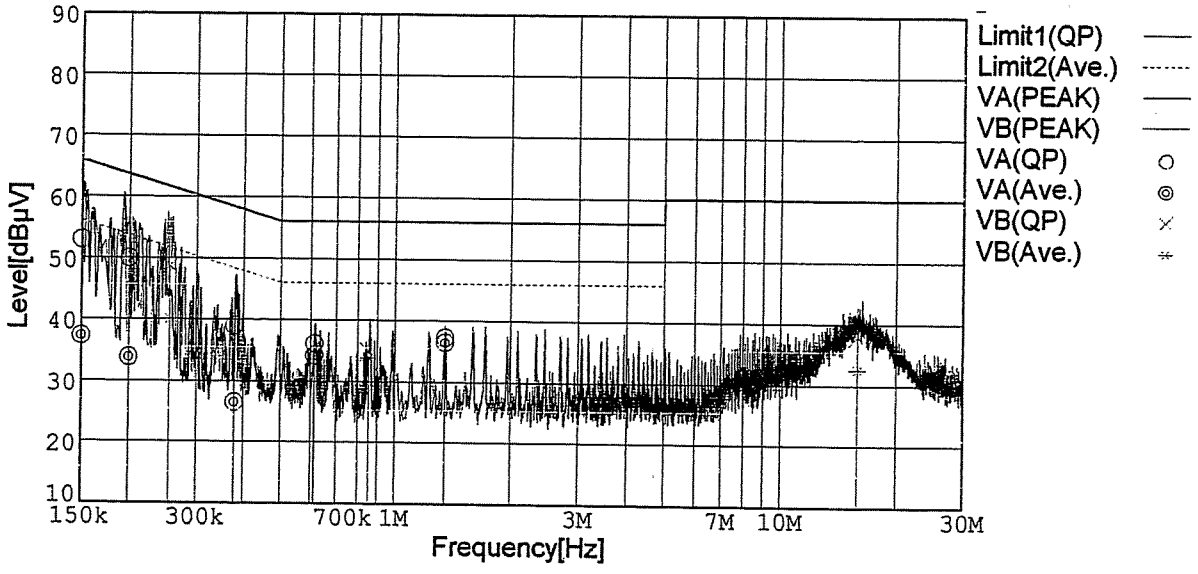
1. Graph

Remarks

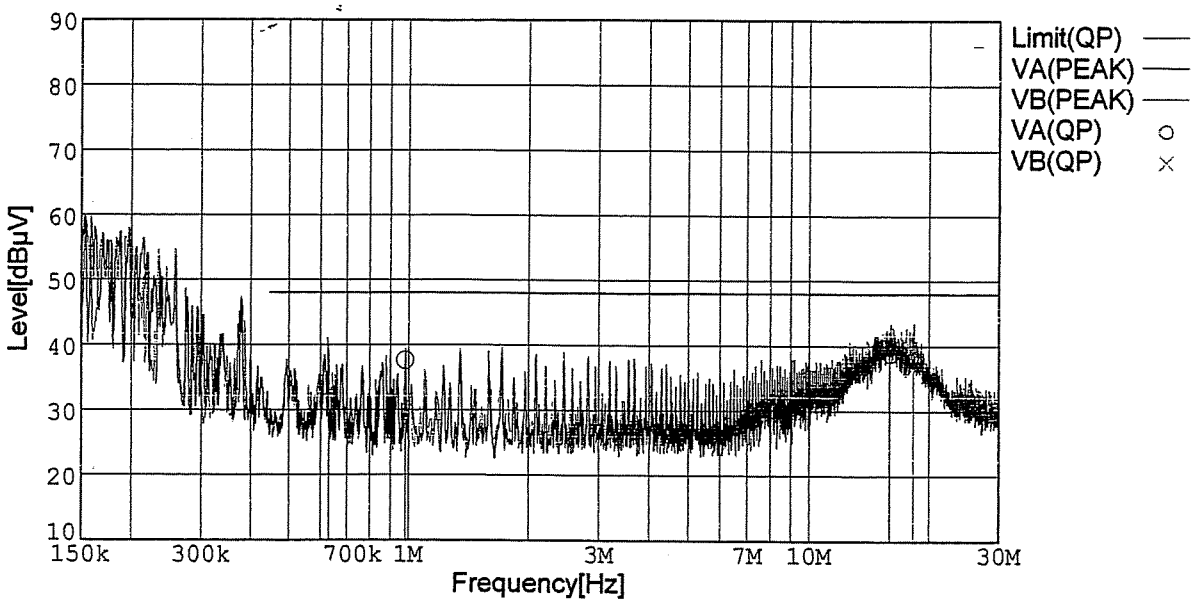
Input Volt. 100V (VCCI Class B)
120V (FCC Class B)

Load 100%

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



Limit: [FCC Part15] Class B



COSEL

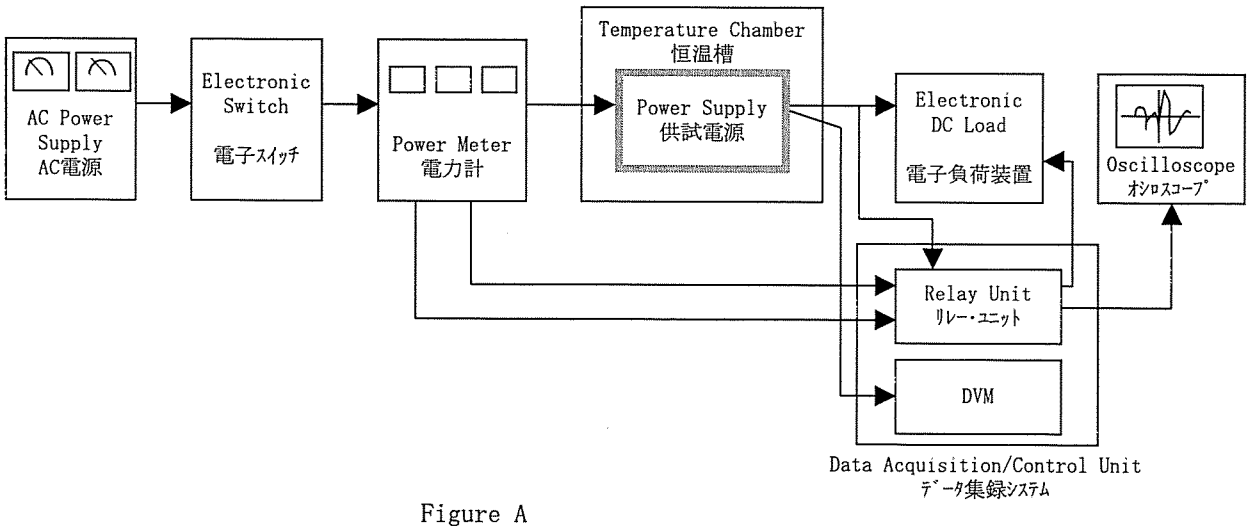


Figure A

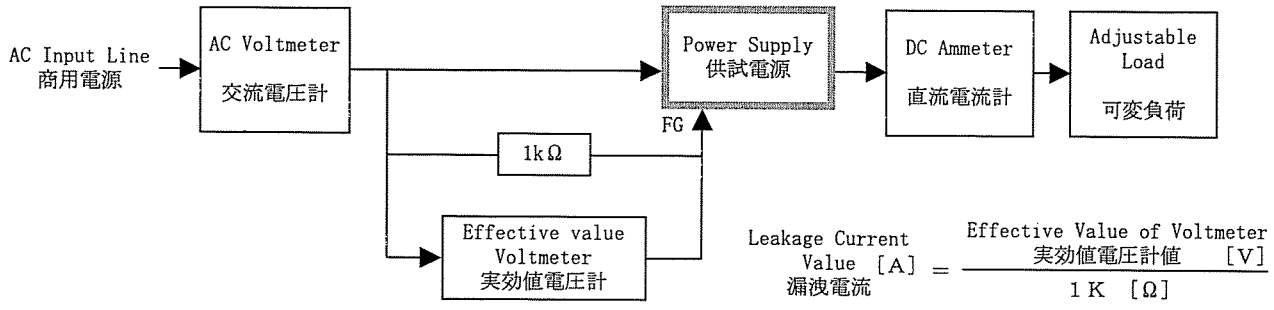


Figure B (DEN-AN)

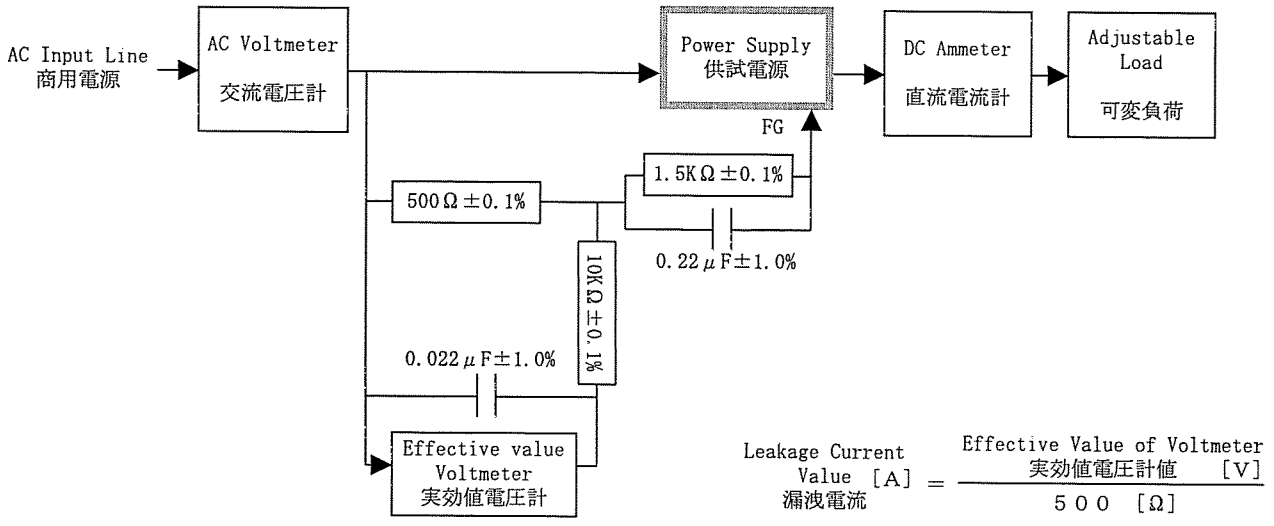


Figure B (IEC60950)

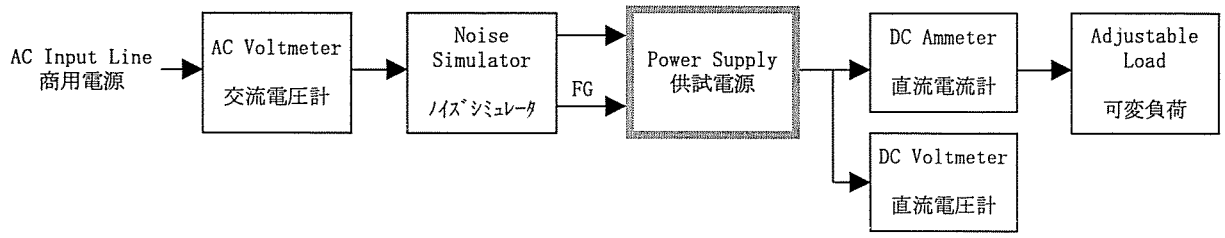


Figure C

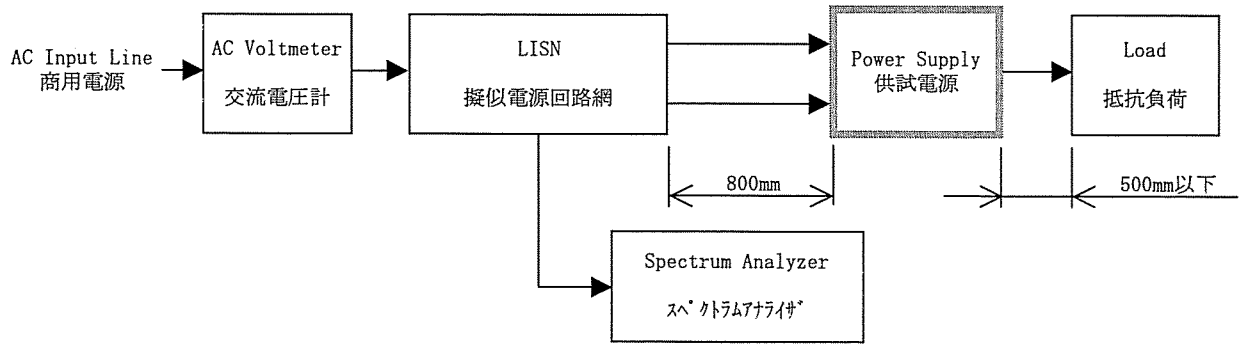


Figure D

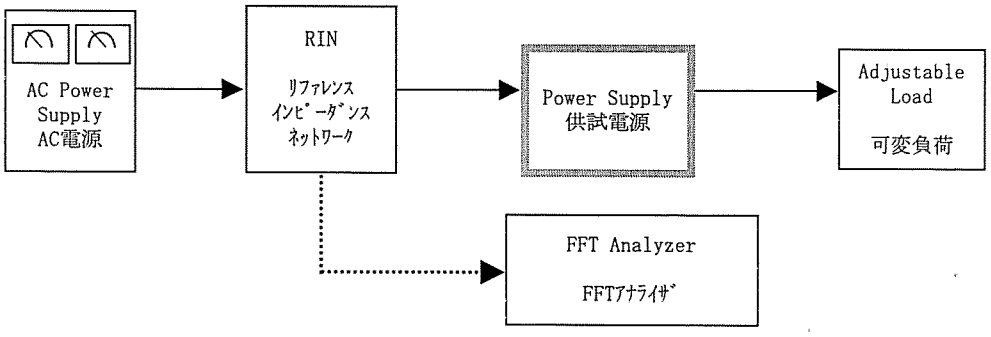


Figure E