



TEST DATA OF LEA100F-48 (100V INPUT)

Regulated DC Power Supply
Apr. 25. 2002

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Design Manager

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コーワセル株式会社
COSEL CO.,LTD.



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Model	LEA100F-48	Temperature Testing Circuitry 25°C Figure A																																	
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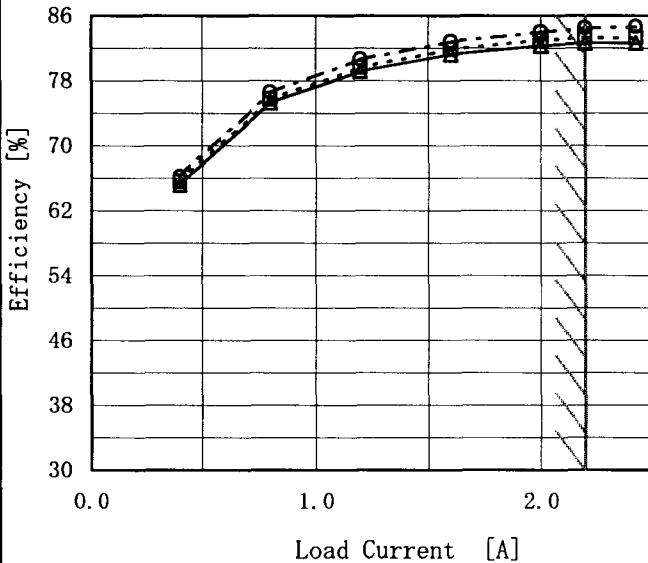
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Model	LEA100F-48	Temperature Testing Circuitry 25°C Figure A																																
Item	Hold-Up Time 出力保持時間																																	
Object	+48V2.2A																																	
1. Graph																																		
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COSEL

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<p>T1: Due to AC Input Line 入力商用周期</p> <p>T2: Due to Switching スイッチング周期</p> <p>Ripple-Noise [mVp-p]</p>																																								
Fig. Complex Ripple Wave Form 図 リップル波形詳細図																																								

COSEL

Model	LEA100F-48																																																								
Item	Overcurrent Protection 過電流保護																																																								
Object	+48V2.2A																																																								
<p>1. Graph</p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Input Volt. 85V Input Volt. 100V Input Volt. 132V</p>																																																									
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(注) 斜線は定格負荷電流範囲を示す。

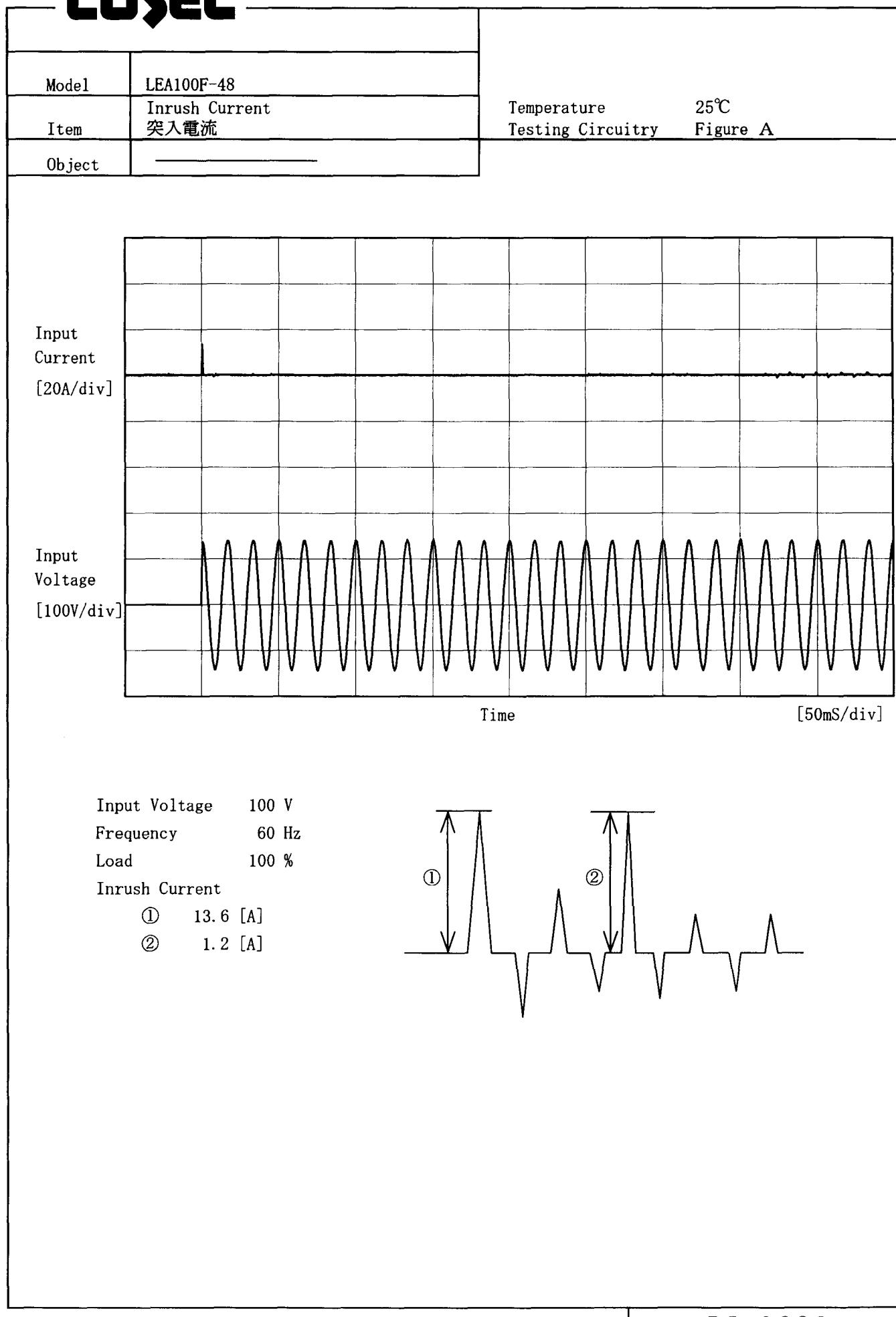
Intermittent operation occurs when the output voltage is from 28V to 0V.
28V～0V間は、間欠モードとなる。

Model	LEA100F-48		
Item	Overvoltage Protection 過電圧保護		
Object	+48V2.2A		
1. Graph		Testing Circuitry Figure A	
<p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p> <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 85V Input Volt. 100V Input Volt. 132V 		2. Values	
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	59.30	59.30	59.30
-10	59.87	59.87	59.87
0	60.43	60.36	60.36
10	60.93	60.93	60.93
20	61.49	61.49	61.49
25	61.78	61.78	61.78
30	62.06	62.06	62.06
40	62.55	62.55	62.55
50	63.12	63.12	63.12
60	63.61	63.61	63.61
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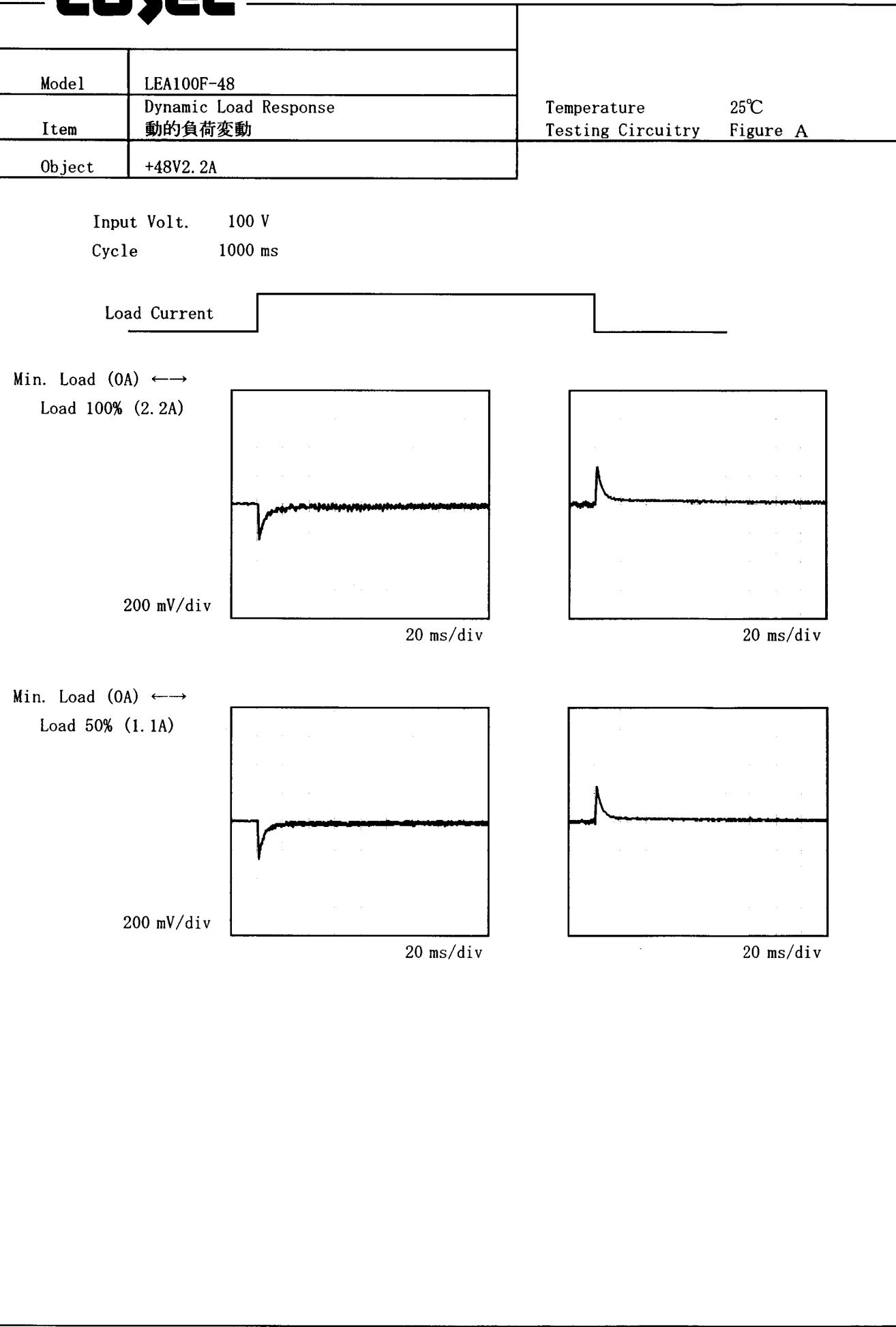
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

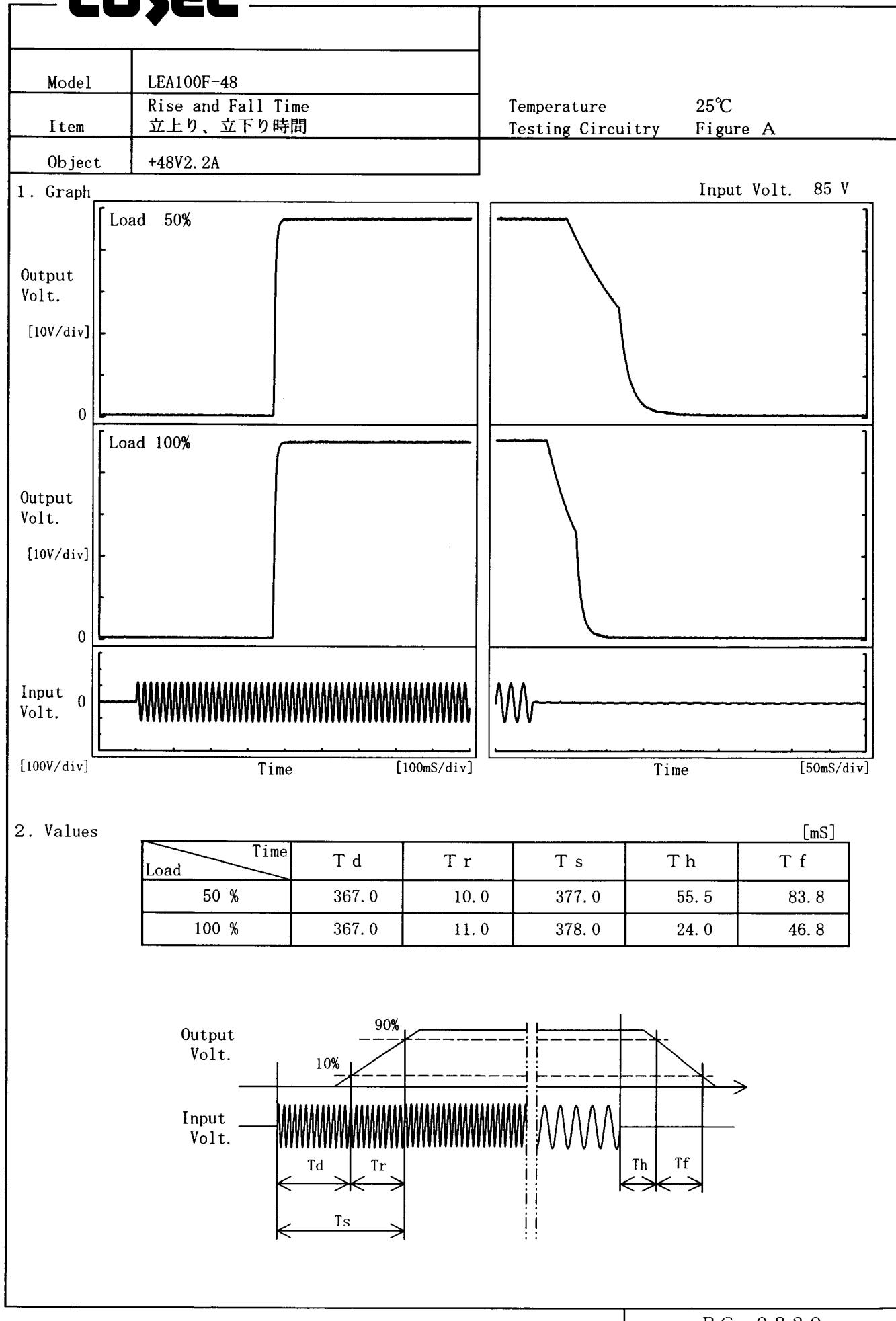
COSEL



COSEL



COSEL



COSEL

Model	LEA100F-48																																																					
Item	Ambient Temperature Drift 周囲温度変動																																																					
Object	+48V2.2A																																																					
Testing Circuitry Figure A																																																						
1. Graph	<p>—▲— Input Volt. 85V - - - □ - - Input Volt. 100V - - ○ - - Input Volt. 132V</p> <table border="1"> <caption>Data points estimated from Figure A Graph</caption> <thead> <tr> <th>Ambient Temperature [°C]</th> <th>Output Voltage [V] (Input 85V)</th> <th>Output Voltage [V] (Input 100V)</th> <th>Output Voltage [V] (Input 132V)</th> </tr> </thead> <tbody> <tr><td>-20</td><td>48.016</td><td>48.016</td><td>48.015</td></tr> <tr><td>-10</td><td>48.028</td><td>48.028</td><td>48.027</td></tr> <tr><td>0</td><td>48.042</td><td>48.041</td><td>48.040</td></tr> <tr><td>10</td><td>48.058</td><td>48.057</td><td>48.057</td></tr> <tr><td>20</td><td>48.076</td><td>48.076</td><td>48.075</td></tr> <tr><td>25</td><td>48.090</td><td>48.090</td><td>48.088</td></tr> <tr><td>30</td><td>48.097</td><td>48.097</td><td>48.096</td></tr> <tr><td>40</td><td>48.103</td><td>48.102</td><td>48.101</td></tr> <tr><td>50</td><td>48.105</td><td>48.104</td><td>48.103</td></tr> <tr><td>60</td><td>48.088</td><td>48.087</td><td>48.087</td></tr> </tbody> </table>			Ambient Temperature [°C]	Output Voltage [V] (Input 85V)	Output Voltage [V] (Input 100V)	Output Voltage [V] (Input 132V)	-20	48.016	48.016	48.015	-10	48.028	48.028	48.027	0	48.042	48.041	48.040	10	48.058	48.057	48.057	20	48.076	48.076	48.075	25	48.090	48.090	48.088	30	48.097	48.097	48.096	40	48.103	48.102	48.101	50	48.105	48.104	48.103	60	48.088	48.087	48.087							
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Note: Slanted line shows the range of the rated ambient temperature.

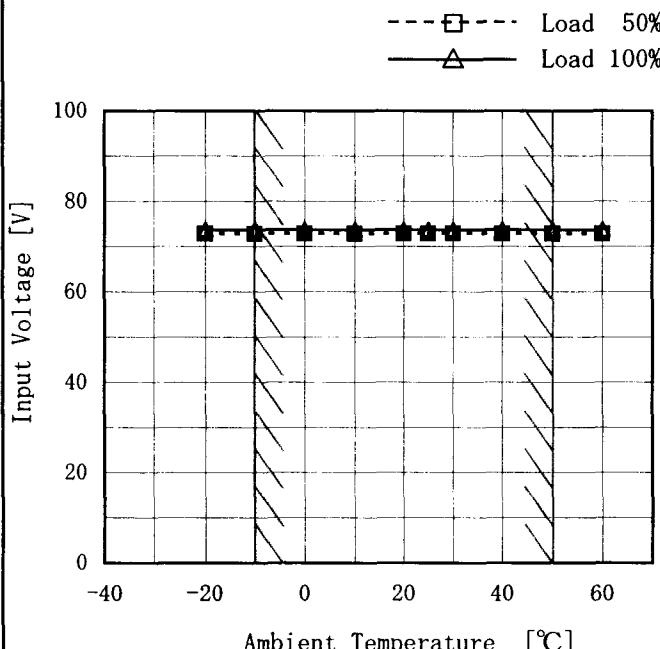
(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	LEA100F-48
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+48V2.2A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	73	74
-10	73	74
0	73	74
10	73	74
20	73	74
25	73	74
30	73	74
40	73	74
50	73	74
60	73	74
--	—	—

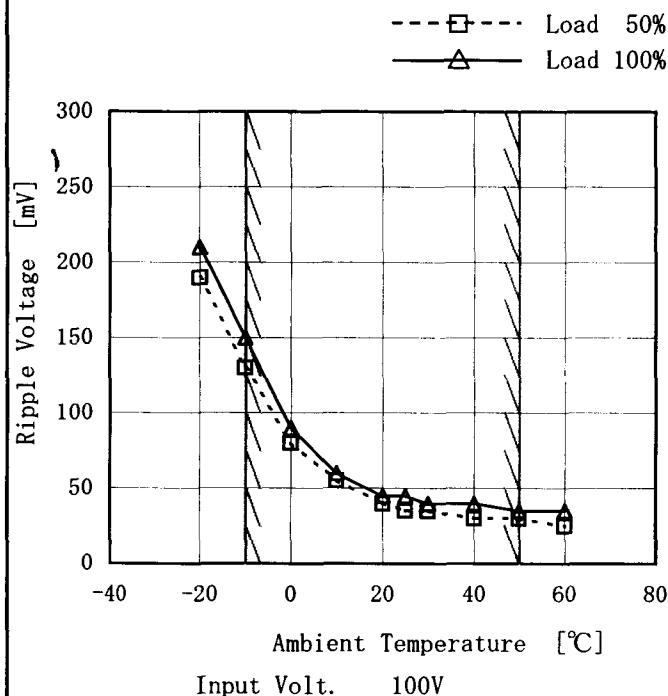
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	LEA100F-48
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+48V2.2A

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。

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	190	210
-10	130	150
0	80	90
10	55	60
20	40	45
25	35	45
30	35	40
40	30	40
50	30	35
60	25	35
--	—	—



Model	LEA100F-48	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+48V2.2A	

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°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 2.2A

* 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°C

入力電圧 : 85 ~ 132V

負荷電流 : 0 ~ 2.2A

* 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

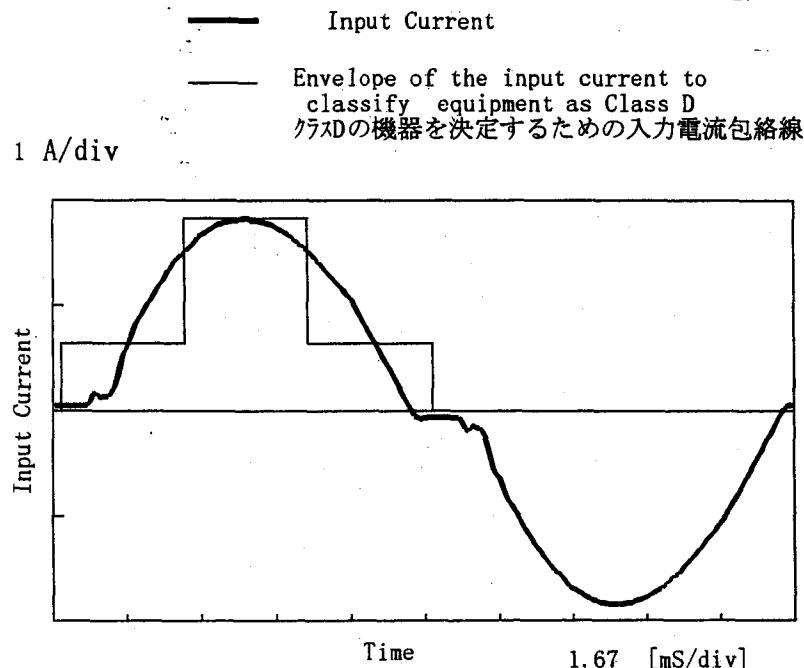
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current [A]	Voltage [V]	Value [mV]	Ration [%]
Maximum Voltage	-10	132	0	12.071	±17	±0.1
Minimum Voltage	55	85	0.9	12.037		

COSEL

Model	LEA100F-48
Item	Harmonic Current 高調波電流
Object	—

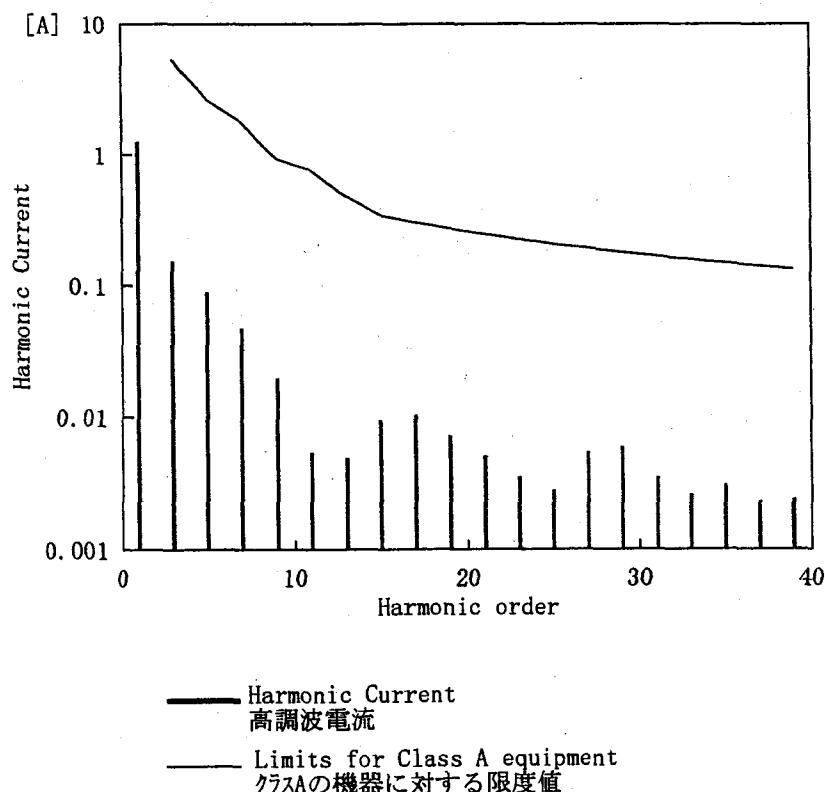
Temperature
Testing Circuitry25°C
Figure E

1. Input Current Waveform



Conditions	Values
Input Voltage [V]	99.9
Input Current [A]	1.279
Active Power [W]	126.3
Apparent Power [VA]	127.8
Frequency [Hz]	60
Power Factor	0.988
Output Power [W]	105.6

2. Harmonic Current

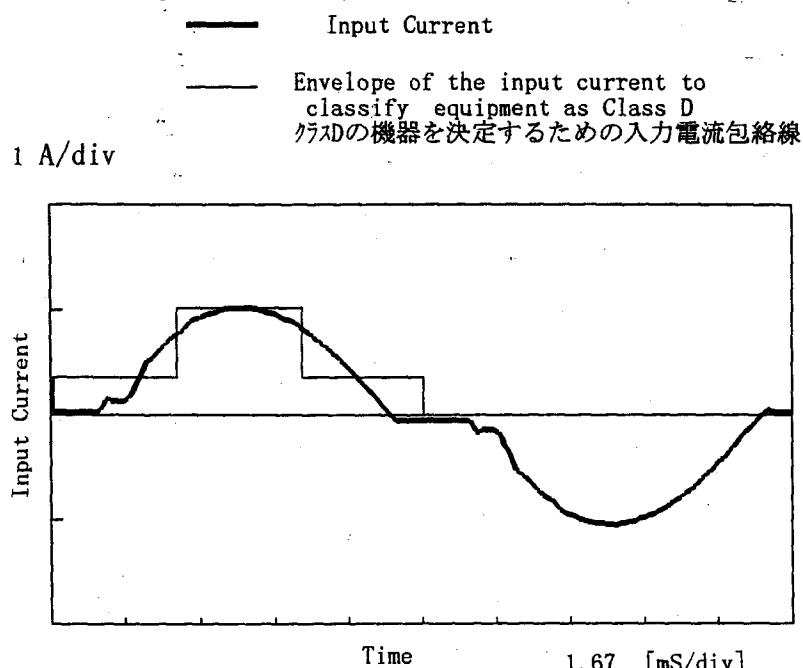


Harmonics order 高調波次数	Limits 限度値 [A] Values 測定値 [A]	
1	—	1.26500
2	—	0.00050
3	5.29530	0.15460
4	—	0.00030
5	2.62462	0.08980
6	—	0.00010
7	1.77277	0.04740
8	—	0.00000
9	0.92092	0.01980
10	—	0.00010
11	0.75976	0.00540
12	—	0.00010
13	0.48348	0.00490
14	—	0.00010
15	0.34535	0.00950
16	—	0.00000
17	0.30472	0.01030
18	—	0.00000
19	0.27264	0.00720
20	—	0.00000
21	0.24668	0.00510
22	—	0.00010
23	0.22523	0.00350
24	—	0.00010
25	0.20721	0.00280
26	—	0.00000
27	0.19186	0.00540
28	—	0.00000
29	0.17863	0.00590
30	—	0.00000
31	0.16710	0.00350
32	—	0.00000
33	0.15698	0.00260
34	—	0.00000
35	0.14801	0.00310
36	—	0.00010
37	0.14000	0.00230
38	—	0.00000
39	0.13283	0.00240
40	—	0.00000

COSEL

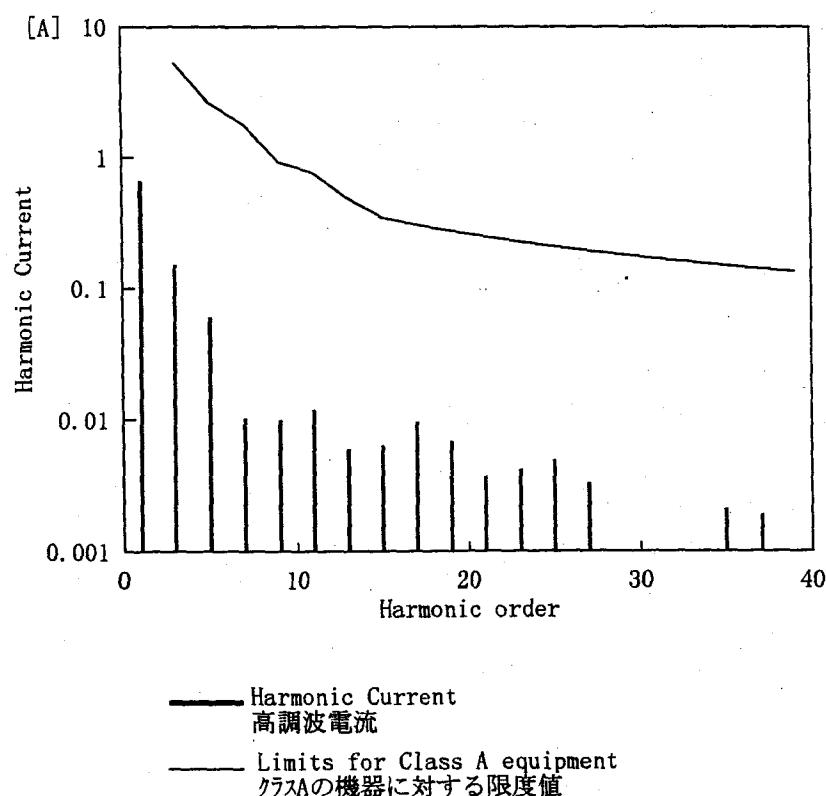
Model	LEA100F-48	Temperature Testing Circuitry	25°C Figure E
Item	Harmonic Current 高調波電流		
Object	<hr/>		

1. Input Current Waveform



Conditions	Values
Input Voltage [V]	100.1
Input Current [A]	0.681
Active Power [W]	66
Apparent Power [VA]	68.2
Frequency [Hz]	60
Power Factor	0.968
Output Power [W]	52.8

2. Harmonic Current



Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.66030
2	—	0.00050
3	5.28472	0.15270
4	—	0.00010
5	2.61938	0.06000
6	—	0.00010
7	1.76923	0.01030
8	—	0.00010
9	0.91908	0.01000
10	—	0.00010
11	0.75824	0.01190
12	—	0.00000
13	0.48252	0.00600
14	—	0.00000
15	0.34466	0.00640
16	—	0.00000
17	0.30411	0.00960
18	—	0.00010
19	0.27210	0.00690
20	—	0.00010
21	0.24618	0.00370
22	—	0.00000
23	0.22478	0.00420
24	—	0.00000
25	0.20679	0.00490
26	—	0.00000
27	0.19148	0.00330
28	—	0.00010
29	0.17827	0.00090
30	—	0.00010
31	0.16677	0.00060
32	—	0.00000
33	0.15666	0.00080
34	—	0.00000
35	0.14771	0.00210
36	—	0.00000
37	0.13973	0.00190
38	—	0.00010
39	0.13256	0.00090
40	—	0.00010



Model	LEA100F-48	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	_____		

1. Results

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
85 [V]	100 [V]	132 [V]	
(A) DEN-AN	0.15	0.18	0.24
(B) IEC60950	0.15	0.18	0.24

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
170 [V]	230 [V]	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	LEA100F-48	Temperature	25°C
Item	Line Noise Tolerance 入力雑音耐量	Testing Circuitry	Figure C
Object	+48V2.2A		

1. Conditions

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

2. Results

Pulse Width [nS]	MODE	No protection failure should occur		DC-like Regulation of Output Voltage 出力電圧の直流的変動
		POLARITY	保護回路の誤動作がない	
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	LEA100F-48	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object	<hr/>		

1. Graph

Remarks

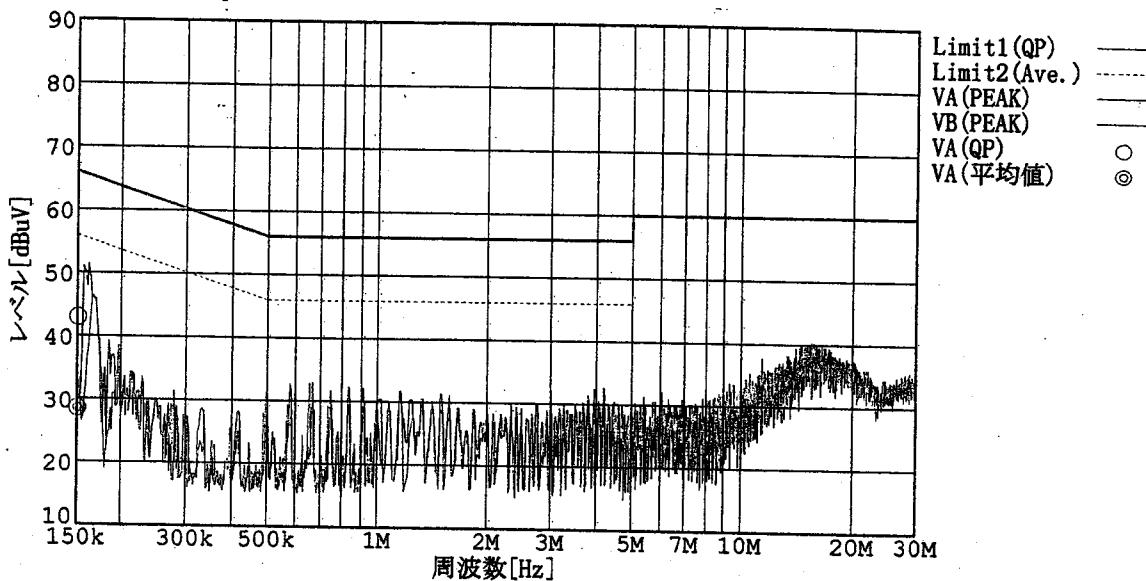
Input Volt. 100V (VCCI Class B)

120V (FCC Class B)

Load 100%

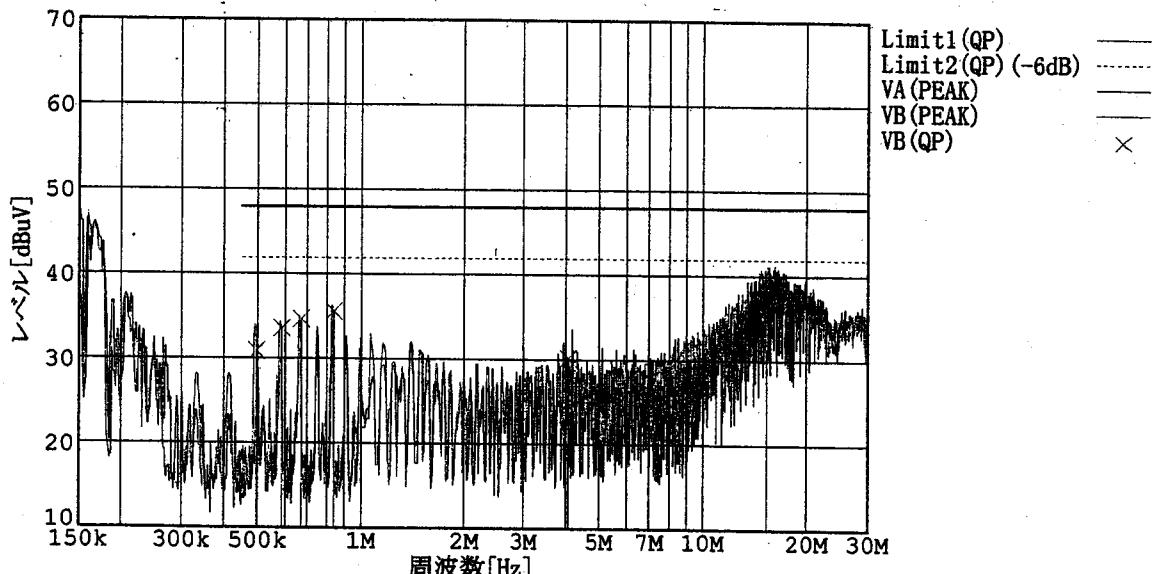
規格 1 : [VCCI] Class B(QP)

規格 2 : [VCCI] Class B(平均値)



規格 1 : [FCC Part15] Class B

規格 2 : [FCC Part15] Class B(-6dB)



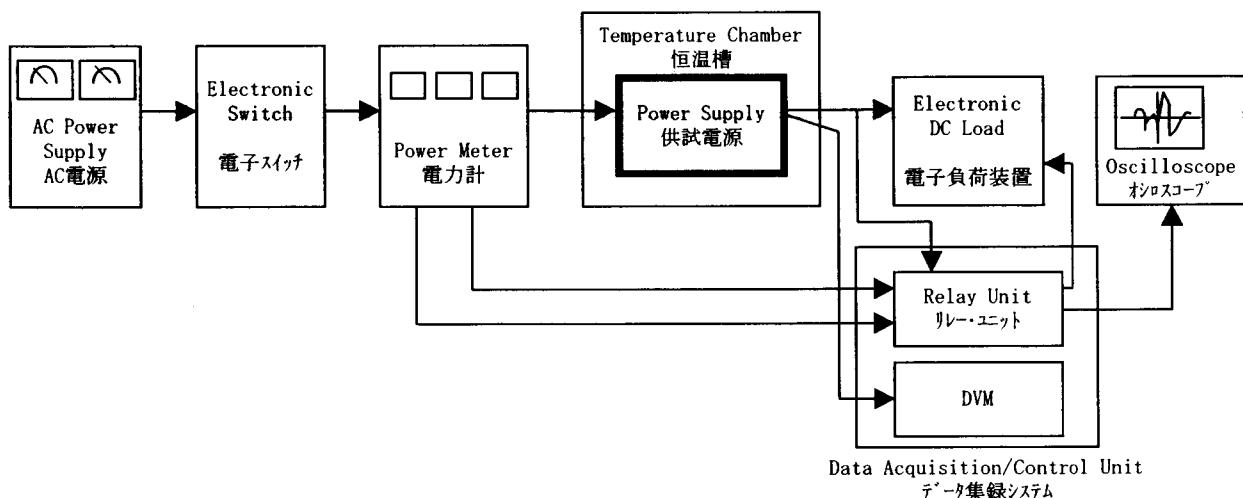


Figure A

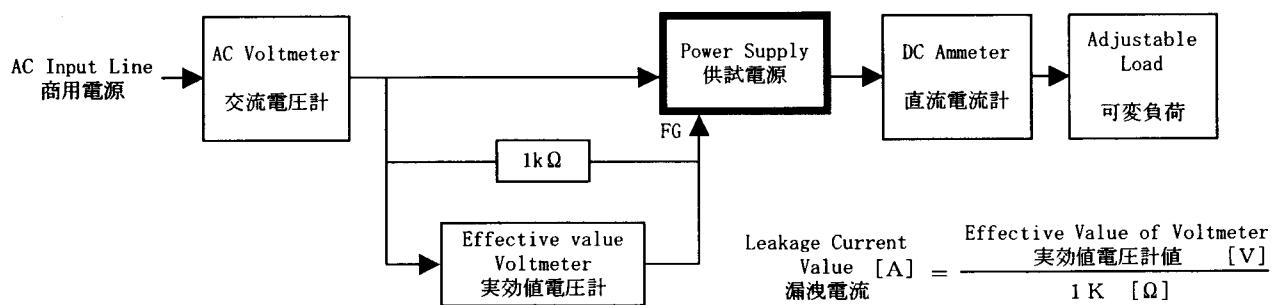


Figure B (DEN-AN)

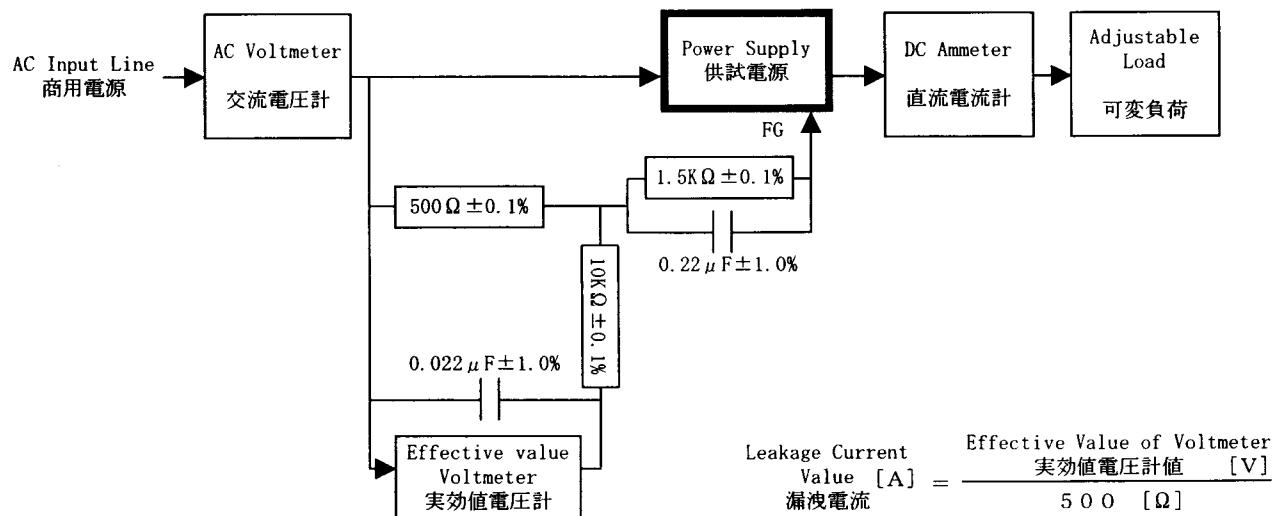


Figure B (IEC60950)

COSEL

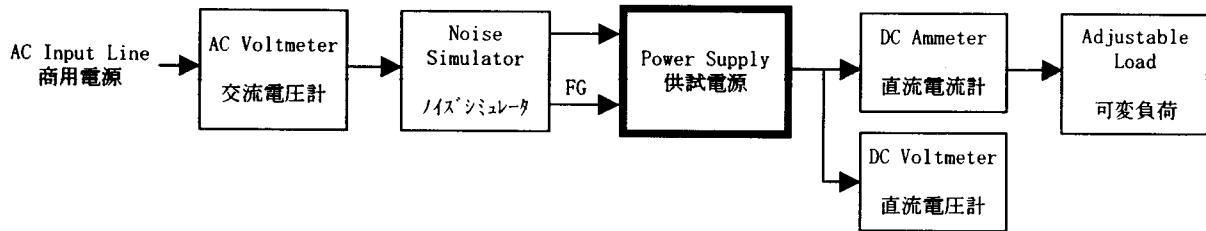


Figure C

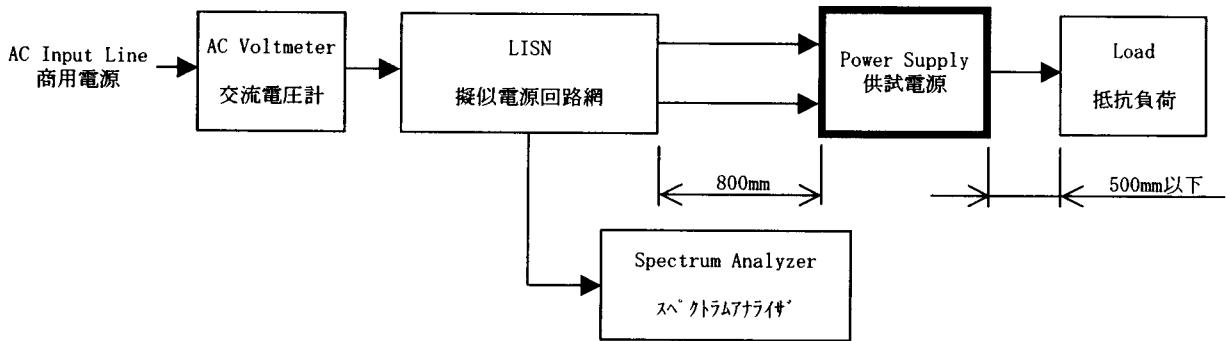


Figure D

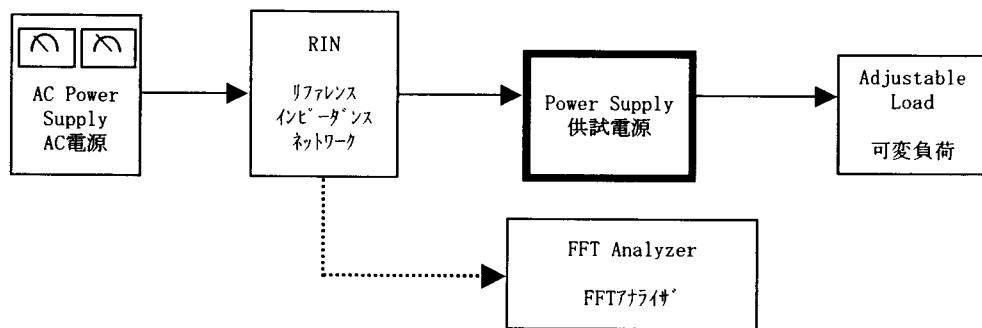


Figure E