

# TEST DATA OF LEP240F-36

(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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(Final Page 29)

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Model	LEP240F-36																																		
Item	Line Regulation 静的入力変動	Temperature	25℃																																
Object	+36V6.7A	Testing Circuitry	Figure A																																
1. Graph		2. Values																																	
<div><div>---□---</div><div>Load 50%</div><div>—△—</div><div>Load 100%</div></div> <p>Output Voltage [V]</p> <p>Input Voltage [V]</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>36.288</td><td>36.284</td></tr><tr><td>80</td><td>36.288</td><td>36.283</td></tr><tr><td>85</td><td>36.287</td><td>36.283</td></tr><tr><td>90</td><td>36.287</td><td>36.282</td></tr><tr><td>100</td><td>36.287</td><td>36.281</td></tr><tr><td>110</td><td>36.287</td><td>36.281</td></tr><tr><td>120</td><td>36.286</td><td>36.281</td></tr><tr><td>132</td><td>36.286</td><td>36.281</td></tr><tr><td>140</td><td>36.286</td><td>36.280</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	36.288	36.284	80	36.288	36.283	85	36.287	36.283	90	36.287	36.282	100	36.287	36.281	110	36.287	36.281	120	36.286	36.281	132	36.286	36.281	140	36.286	36.280
Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
75	36.288	36.284																																	
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100	36.287	36.281																																	
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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。																																			

# COSEL

Model

LEP240F-36

Item

Input Current (by Load Current)  
入力電流 (負荷特性)

Object

Temperature

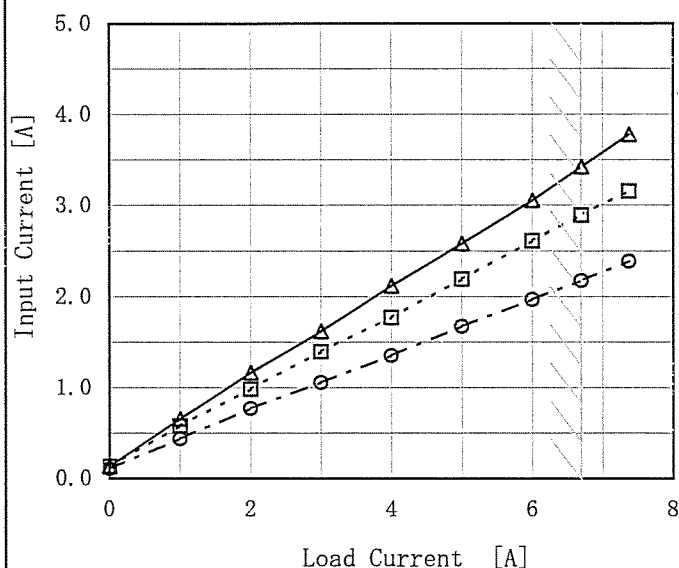
25°C

Testing Circuitry

Figure A

## 1. Graph

—△— Input Volt. 85V  
 ---□--- Input Volt. 100V  
 ---○--- Input Volt. 132V



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	0.134	0.135	0.104
1.00	0.657	0.582	0.436
2.00	1.165	0.985	0.771
3.00	1.620	1.397	1.057
4.00	2.118	1.770	1.350
5.00	2.582	2.192	1.672
6.00	3.053	2.612	1.968
6.70	3.424	2.892	2.176
7.37	3.780	3.156	2.384
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# COSEL

Model	LEP240F-36	Temperature	25°C
Item	Input Power (by Load Current) 入力電力 (負荷特性)	Testing Circuitry	Figure A
Object			

1. Graph

—△— Input Volt. 85V  
 ---□--- Input Volt. 100V  
 -○- Input Volt. 132V

Input Power [W]

Load Current [A]

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	9.0	9.8	9.0
1.00	51.2	52.6	50.4
2.00	94.2	93.0	93.4
3.00	133.2	134.3	131.5
4.00	176.6	172.2	171.2
5.00	216.3	215.4	213.6
6.00	257.4	257.9	253.5
6.70	289.5	285.9	281.4
7.37	320.0	312.6	309.0
--	--	--	--
--	--	--	--

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。

# COSEL

Model		LEP240F-36	
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)	
Object			
1. Graph		2. Values	

<

Model		LEP240F-36		Temperature		25℃																																																	
Item		Efficiency (by Load Current) 効率 (負荷特性)		Testing Circuitry		Figure A																																																	
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<div><div>—△—</div>Input Volt. 85V</div> <div><div>- - □ - -</div>Input Volt. 100V</div> <div><div>- · - ○ - · -</div>Input Volt. 132V</div> <table><thead><tr><th>Load Current [A]</th><th>85[V] Efficiency [%]</th><th>100[V] Efficiency [%]</th><th>132[V] Efficiency [%]</th></tr></thead><tbody><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1.00</td><td>66.5</td><td>64.7</td><td>67.5</td></tr><tr><td>2.00</td><td>74.5</td><td>75.5</td><td>75.2</td></tr><tr><td>3.00</td><td>79.8</td><td>79.2</td><td>80.9</td></tr><tr><td>4.00</td><td>80.7</td><td>82.8</td><td>83.3</td></tr><tr><td>5.00</td><td>82.6</td><td>82.9</td><td>83.7</td></tr><tr><td>6.00</td><td>83.5</td><td>83.3</td><td>84.8</td></tr><tr><td>6.70</td><td>83.0</td><td>84.0</td><td>85.3</td></tr><tr><td>7.37</td><td>82.6</td><td>84.6</td><td>85.6</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></tbody></table>				Load Current [A]	85[V] Efficiency [%]	100[V] Efficiency [%]	132[V] Efficiency [%]	0.00	—	—	—	1.00	66.5	64.7	67.5	2.00	74.5	75.5	75.2	3.00	79.8	79.2	80.9	4.00	80.7	82.8	83.3	5.00	82.6	82.9	83.7	6.00	83.5	83.3	84.8	6.70	83.0	84.0	85.3	7.37	82.6	84.6	85.6	—	—	—	—	—	—	—	—				
Load Current [A]	85[V] Efficiency [%]	100[V] Efficiency [%]	132[V] Efficiency [%]																																																				
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# COSEL

ModelLEP240F-36

ItemPower Factor (by Input Voltage)  
力率 (入力電圧特性)

Object

1. Graph

---

□

---

Load 50%

---

△

---

Load 100%

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

70

90

110

130

150

Input Voltage [V]

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。

Temperature25℃

Testing CircuitryFigure A

2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.978	0.997
80	0.975	0.996
85	0.974	0.995
90	0.971	0.993
100	0.967	0.988
110	0.963	0.986
120	0.956	0.983
132	0.950	0.979
140	0.944	0.976

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# COSEL

Model	LEP240F-36	Temperature	25°C
Item	Power Factor (by Load Current) 力率 (負荷特性)	Testing Circuitry	Figure A
Object	_____		

1. Graph

—△— Input Volt. 85V  
 ---□--- Input Volt. 100V  
 ---○--- Input Volt. 132V

Power Factor

Load Current [A]

2. Values

Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.788	0.727	0.656
1.00	0.918	0.905	0.875
2.00	0.952	0.945	0.917
3.00	0.969	0.963	0.943
4.00	0.980	0.975	0.959
5.00	0.985	0.982	0.969
6.00	0.992	0.987	0.975
6.70	0.995	0.988	0.979
7.37	0.997	0.990	0.982
--	--	--	--
--	--	--	--

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。

# COSEL

Model	LEP240F-36																																		
Item	Hold-Up Time 出力保持時間	Temperature	25℃																																
Object	+36V6.7A	Testing Circuitry	Figure A																																
1. Graph		2. Values																																	
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>75</td><td>72</td><td>29</td></tr><tr><td>80</td><td>74</td><td>31</td></tr><tr><td>85</td><td>76</td><td>32</td></tr><tr><td>90</td><td>78</td><td>34</td></tr><tr><td>100</td><td>80</td><td>36</td></tr><tr><td>110</td><td>82</td><td>38</td></tr><tr><td>120</td><td>84</td><td>40</td></tr><tr><td>132</td><td>86</td><td>41</td></tr><tr><td>140</td><td>87</td><td>42</td></tr></tbody></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	72	29	80	74	31	85	76	32	90	78	34	100	80	36	110	82	38	120	84	40	132	86	41	140	87	42		
Input Voltage [V]	Hold-Up Time [mS]																																		
	Load 50%	Load 100%																																	
75	72	29																																	
80	74	31																																	
85	76	32																																	
90	78	34																																	
100	80	36																																	
110	82	38																																	
120	84	40																																	
132	86	41																																	
140	87	42																																	
<p>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.</p> <p>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。</p>																																			

# COSEL

Model		LEP240F-36		Temperature25℃ Testing CircuitryFigure A																																																		
Item		Instantaneous Interruption Compensation 瞬時停電保障																																																				
Object		+36V6.7A																																																				
1. Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div> <div>Instantaneous Compensation Time [mS]</div> <div>Load Current [A]</div>		2. Values																																																		
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1.00</td><td>239</td><td>254</td><td>265</td></tr><tr><td>2.00</td><td>114</td><td>122</td><td>139</td></tr><tr><td>3.00</td><td>70</td><td>78</td><td>89</td></tr><tr><td>4.00</td><td>46</td><td>52</td><td>64</td></tr><tr><td>5.00</td><td>39</td><td>40</td><td>46</td></tr><tr><td>6.00</td><td>36</td><td>40</td><td>43</td></tr><tr><td>6.70</td><td>31</td><td>35</td><td>40</td></tr><tr><td>7.37</td><td>27</td><td>31</td><td>36</td></tr><tr><td>--</td><td>—</td><td>—</td><td>—</td></tr><tr><td>--</td><td>—</td><td>—</td><td>—</td></tr></table>		Load Current [A]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	—	—	—	1.00	239	254	265	2.00	114	122	139	3.00	70	78	89	4.00	46	52	64	5.00	39	40	46	6.00	36	40	43	6.70	31	35	40	7.37	27	31	36	--	—	—	—	--	—	—	—
Load Current [A]	Time [mS]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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# COSEL

Model		LEP240F-36		Temperature		25℃	
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A	
Object		+36V6.7A					
1. Graph				2. Values			

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Output Voltage [V]

Load Current [A]

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。

Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	36.292	36.293	36.293
1.00	36.289	36.289	36.290
2.00	36.286	36.286	36.286
3.00	36.285	36.285	36.286
4.00	36.285	36.285	36.285
5.00	36.285	36.285	36.284
6.00	36.284	36.284	36.283
6.70	36.282	36.282	36.282
7.37	36.281	36.281	36.281
--	—	—	—

# COSEL

Model		LEP240F-36	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	
Object		+36V6.7A	

1. Graph

—△— Input Volt. 85V

- -○- - Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

Ripple Voltage [mV]

0

2

4

6

8

Load Current [A]

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  
スイッチング周期

Ripple [mVp-p]

T2

T1

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

Temperature	25°C
Testing Circuitry	Figure A

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	10	10
1.00	40	40
2.00	40	40
3.00	40	40
4.00	40	40
5.00	40	40
6.00	40	40
6.70	40	40
7.37	40	40
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# COSEL

Model	LEP240F-36	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A
Object	+36V6.7A		

1. Graph

—△— Input Volt. 85V

---○--- Input Volt. 132V

Ripple-Noise [mV]

Load Current [A]

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  
スイッチング周期

Ripple-Noise [mVp-p]

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	70	70
1.00	70	70
2.00	85	85
3.00	85	85
4.00	85	85
5.00	85	85
6.00	90	90
6.70	95	95
7.37	105	105
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# COSEL

Model		LEP240F-36	
Item		Overcurrent Protection 過電流保護	
Object		+36V6.7A	

1. Graph

Input Volt. 85V

Input Volt. 100V

Input Volt. 132V

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 22V to 0V.  
22V~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]
36.0	15.38	15.38	15.35
34.2	15.39	15.39	15.38
32.4	15.42	15.45	15.45
28.8	15.54	15.56	15.60
25.2	15.67	15.68	15.74
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BC-0856

# COSEL

Model LEP240F-36

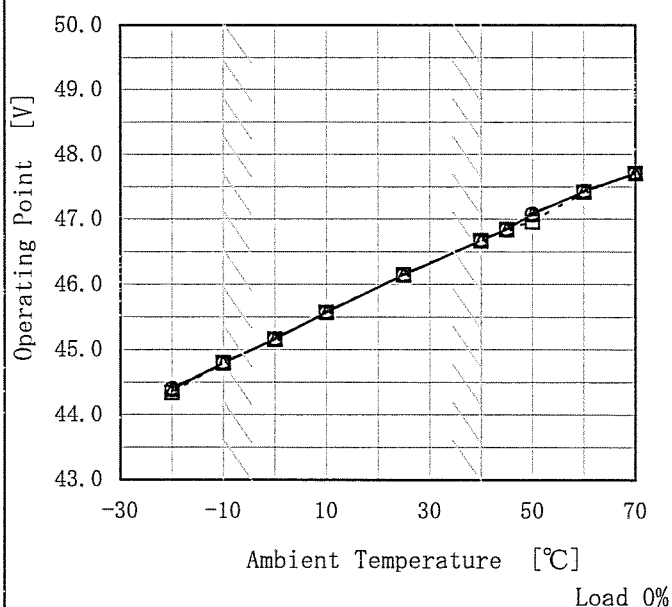
Item Overvoltage Protection  
過電圧保護

Object +36V6.7A

Testing Circuitry Figure A

## 1. Graph

—△— Input Volt. 85V  
 ---□--- Input Volt. 100V  
 ---○--- Input Volt. 132V



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

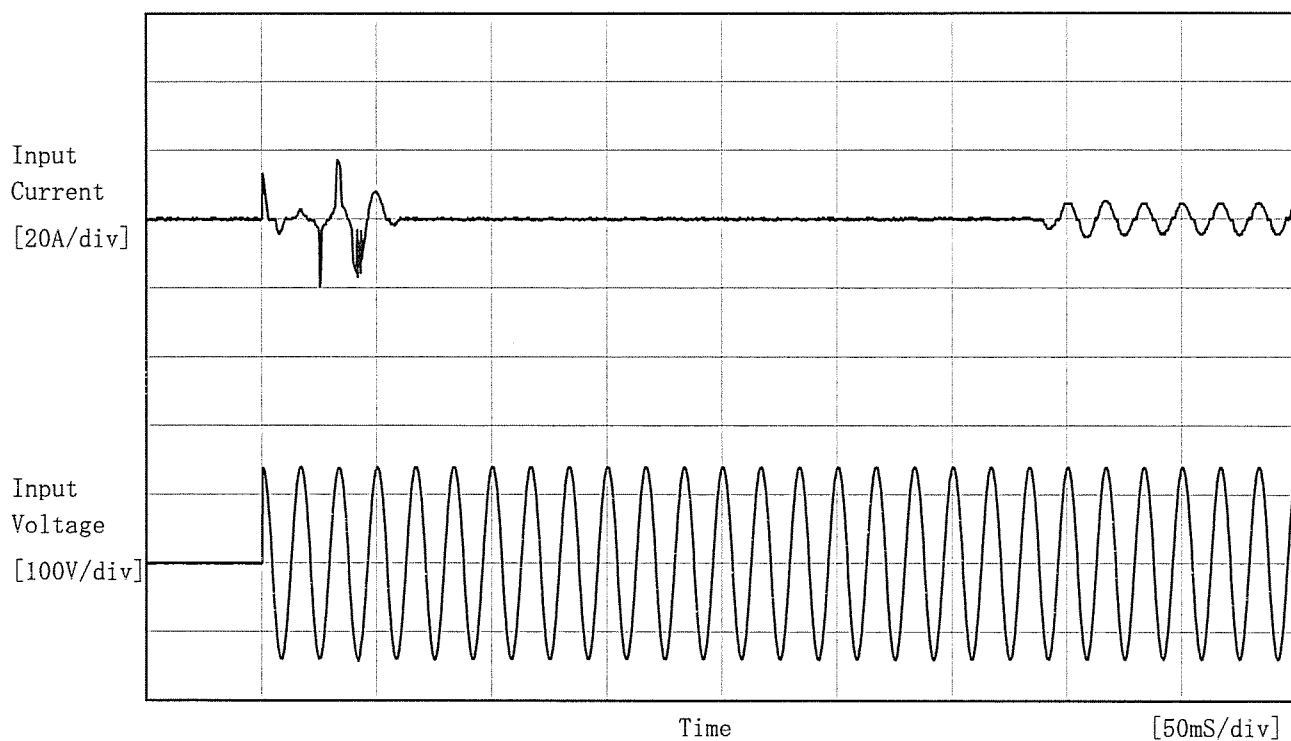
(注) 斜線は定格周囲温度範囲を示す。

## 2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	44.39	44.34	44.40
-10	44.80	44.80	44.80
0	45.16	45.16	45.16
10	45.57	45.57	45.57
25	46.15	46.15	46.15
40	46.67	46.67	46.67
45	46.84	46.84	46.84
50	47.08	46.96	47.08
60	47.43	47.42	47.43
70	47.71	47.71	47.71
--	--	--	--

**COSEL**

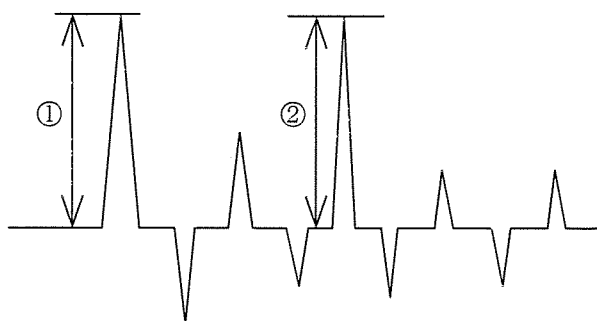
Model	LEP240F-36	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V  
Frequency 60 Hz  
Load 100 %  
Inrush Current

① 13.4 [A]

② 19.6 [A]




# COSEL

Model	LEP240F-36	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response 動的負荷変動	
Object	+36V6.7A	

Input Volt. 100 V  
Cycle 1000 ms

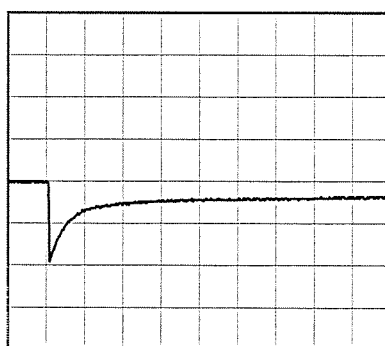
Load Current



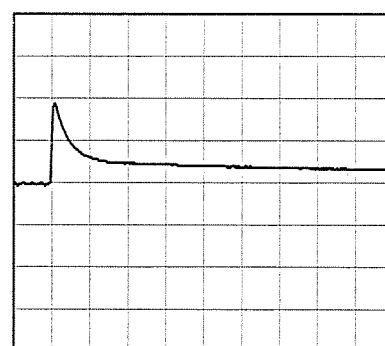
Min. Load (0A)  $\longleftrightarrow$

Load 100% (6.7A)

100 mV/div



10 ms/div

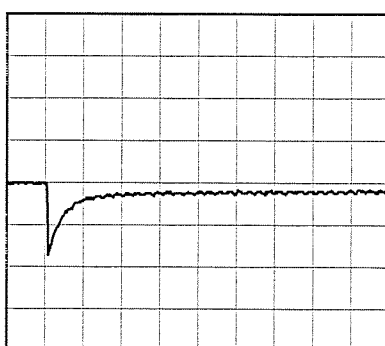


10 ms/div

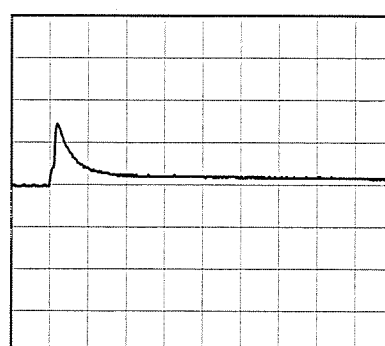
Min. Load (0A)  $\longleftrightarrow$

Load 50% (3.35A)

100 mV/div



10 ms/div



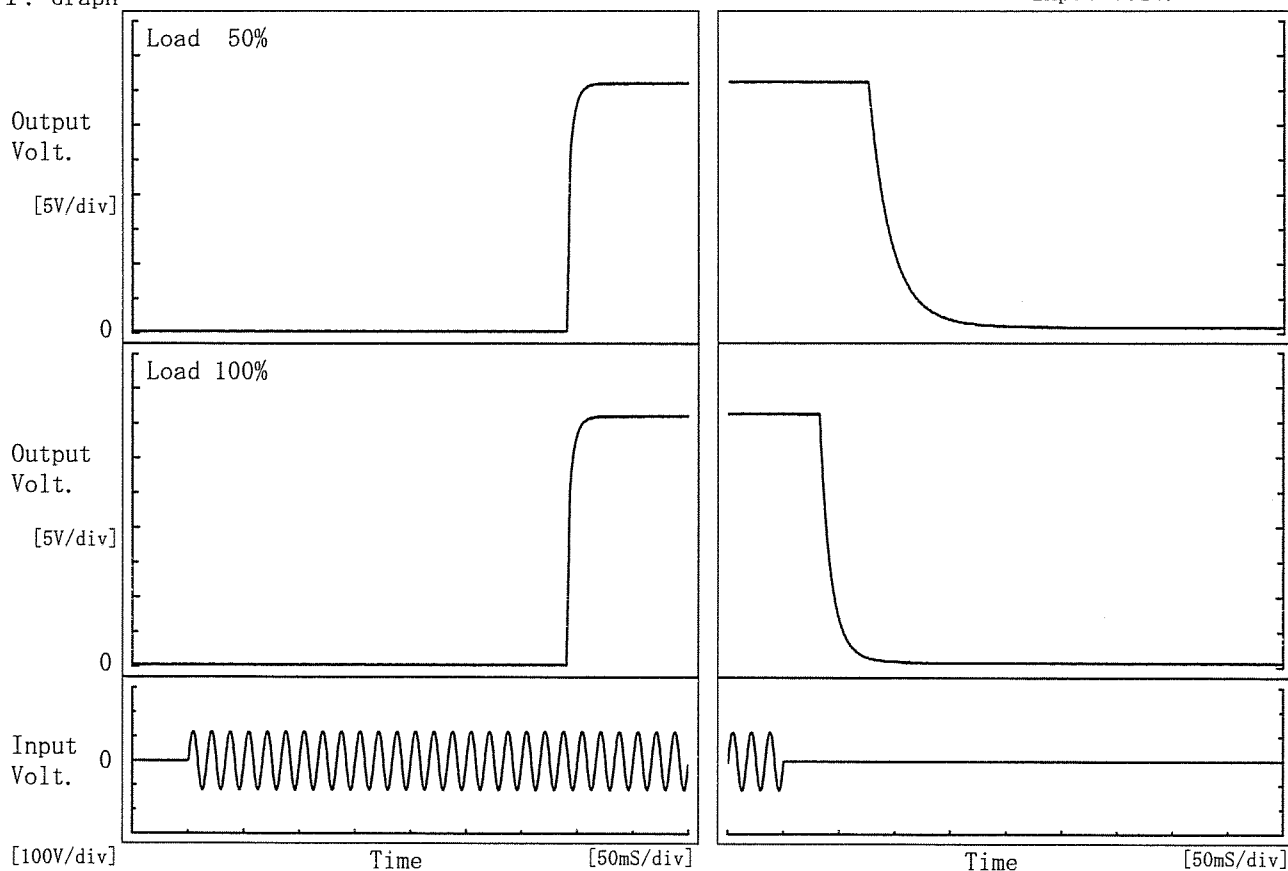
10 ms/div

# COSEL

Model	LEP240F-36	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+36V6.7A		

## 1. Graph

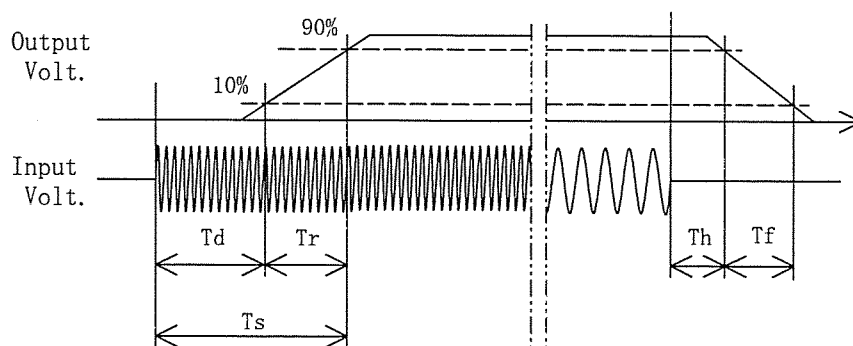
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	341.0	8.0	349.0	77.8	49.8
100 %	340.8	8.3	349.0	33.5	24.3



BC-0856

# COSEL

Model

LEP240F-36

Item

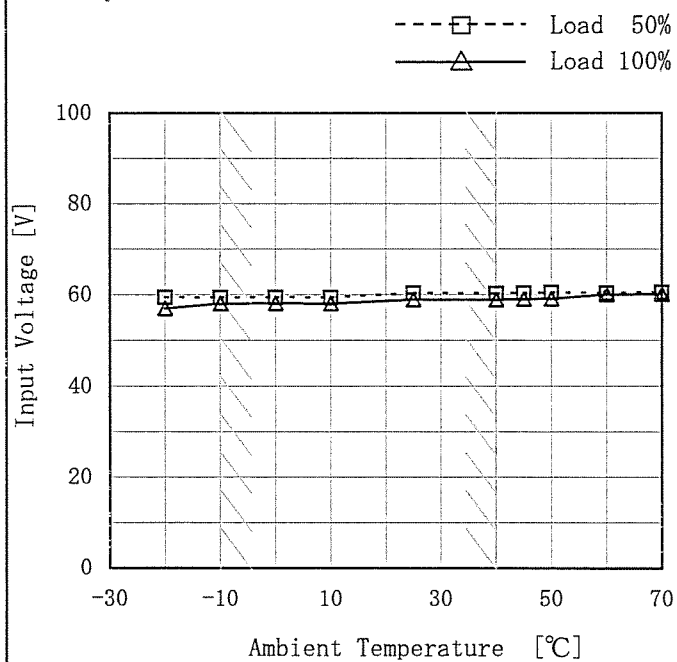
Minimum Input Voltage for Regulated Output Voltage  
最低レギュレーション電圧

Object

+36V6.7A

Testing Circuitry Figure A

## 1. Graph



## 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	60	58
-10	60	59
0	60	59
10	60	59
25	61	59
40	61	59
45	61	60
50	61	60
60	61	61
70	61	61
—	—	—

# COSEL

		Testing Circuitry     Figure A																																						
Model	LEP240F-36																																							
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object	+36V6.7A																																							
1. Graph		2. Values																																						
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>Input Volt.    100V</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>65</td><td>80</td></tr><tr><td>-10</td><td>55</td><td>60</td></tr><tr><td>0</td><td>50</td><td>55</td></tr><tr><td>10</td><td>40</td><td>45</td></tr><tr><td>25</td><td>40</td><td>40</td></tr><tr><td>40</td><td>35</td><td>40</td></tr><tr><td>45</td><td>35</td><td>40</td></tr><tr><td>50</td><td>35</td><td>40</td></tr><tr><td>60</td><td>35</td><td>40</td></tr><tr><td>70</td><td>30</td><td>35</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>	Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	65	80	-10	55	60	0	50	55	10	40	45	25	40	40	40	35	40	45	35	40	50	35	40	60	35	40	70	30	35	—	—	—
Ambient Temperature [°C]	Ripple Voltage [mV]																																							
	Load 50%	Load 100%																																						
-20	65	80																																						
-10	55	60																																						
0	50	55																																						
10	40	45																																						
25	40	40																																						
40	35	40																																						
45	35	40																																						
50	35	40																																						
60	35	40																																						
70	30	35																																						
—	—	—																																						
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	LEP240F-36		
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃
Object	+36V6.7A	Testing Circuitry	Figure A
1. Graph		2. Values	
<div><div><div>Output Voltage [V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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		Testing Circuitry    Figure A
Model	LEP240F-36	
Item	Output Voltage Accuracy 定電圧精度	
Object	+36V6.7A	

### 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 ~ 40°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 6.7A

\* Output Voltage Accuracy =  $\pm (\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

\* 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 ~ 40°C

入力電圧 : 85 ~ 132V

負荷電流 : 0 ~ 6.7A

\* 定電圧精度(変動値) =  $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

\* 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	25	132	0	36.314	±20	±0.1
Minimum Voltage	-10	100	6.7	36.275		

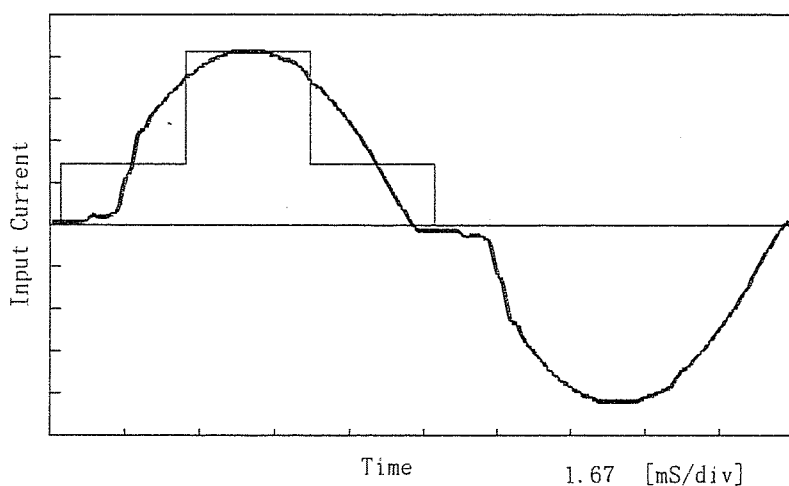
COSEL

Model	LEP240F-36	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

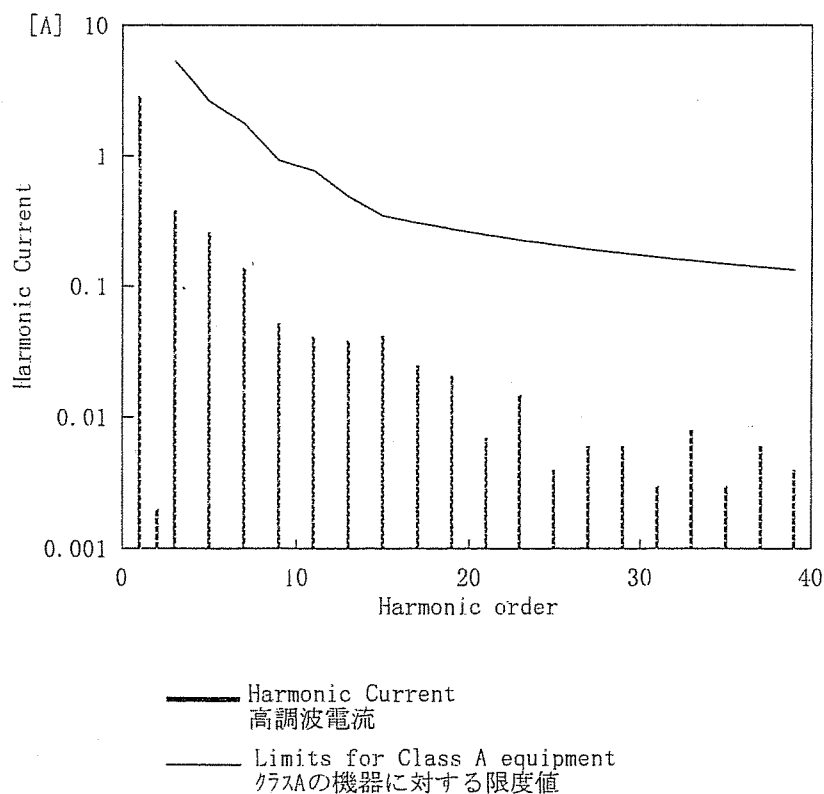
## 1. Input Current Waveform

— 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



## 2. Harmonic Current



Conditions	Values
Input Voltage [V]	99.2
Input Current [A]	2.942
Active Power [W]	287.4
Apparent Power [VA]	291.9
Frequency [Hz]	60
Power Factor	0.985
Output Power [W]	240

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	2.89900
2	—	0.00200
3	5.33266	0.38300
4	—	0.00100
5	2.64315	0.25900
6	—	0.00100
7	1.78528	0.13800
8	—	0.00100
9	0.92742	0.05200
10	—	0.00100
11	0.76512	0.04100
12	—	0.00100
13	0.48690	0.03900
14	—	0.00100
15	0.34778	0.04200
16	—	0.00000
17	0.30687	0.02500
18	—	0.00100
19	0.27456	0.02100
20	—	0.00100
21	0.24842	0.00700
22	—	0.00000
23	0.22681	0.01500
24	—	0.00100
25	0.20867	0.00400
26	—	0.00100
27	0.19321	0.00600
28	—	0.00100
29	0.17989	0.00600
30	—	0.00100
31	0.16828	0.00300
32	—	0.00100
33	0.15808	0.00800
34	—	0.00000
35	0.14905	0.00300
36	—	0.00000
37	0.14099	0.00600
38	—	0.00100
39	0.13376	0.00400
40	—	0.00000

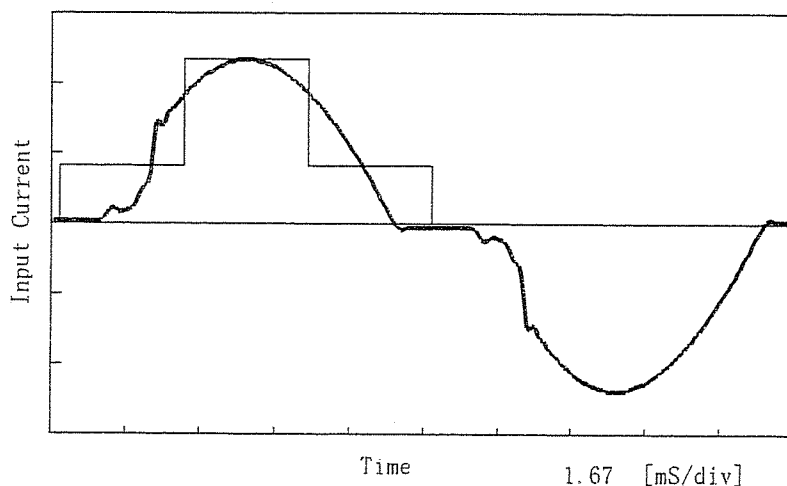
**COSEL**

Model	LEP240F-36	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

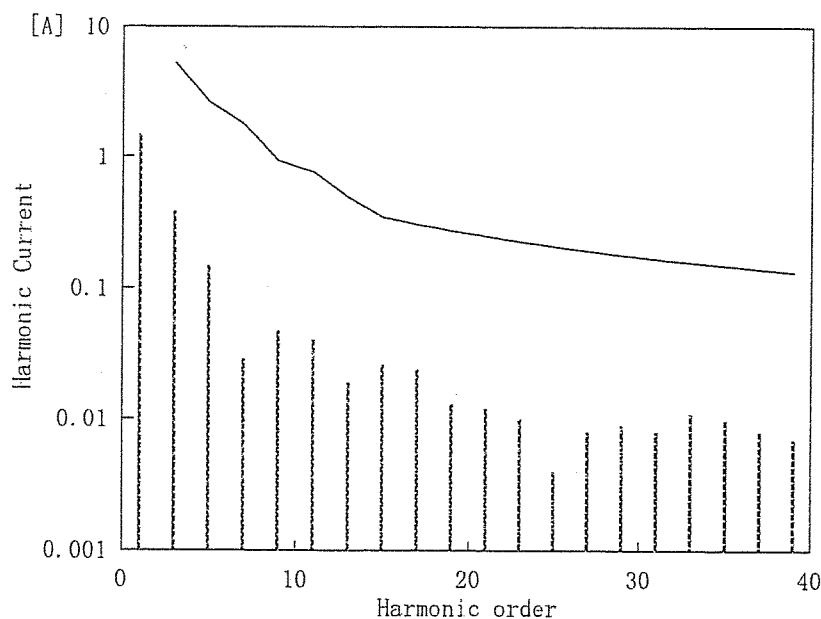
## 1. Input Current Waveform

— 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



## 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]	99.8
Input Current [A]	1.545
Active Power [W]	148.4
Apparent Power [VA]	154.3
Frequency [Hz]	60
Power Factor	0.962
Output Power [W]	120

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.48700
2	—	0.00100
3	5.30060	0.38100
4	—	0.00000
5	2.62725	0.14800
6	—	0.00000
7	1.77455	0.02900
8	—	0.00000
9	0.92184	0.04700
10	—	0.00000
11	0.76052	0.04000
12	—	0.00000
13	0.48397	0.01900
14	—	0.00000
15	0.34569	0.02600
16	—	0.00000
17	0.30502	0.02400
18	—	0.00000
19	0.27291	0.01300
20	—	0.00000
21	0.24692	0.01200
22	—	0.00000
23	0.22545	0.01000
24	—	0.00000
25	0.20741	0.00400
26	—	0.00000
27	0.19205	0.00800
28	—	0.00000
29	0.17881	0.00900
30	—	0.00000
31	0.16727	0.00800
32	—	0.00000
33	0.15713	0.01100
34	—	0.00000
35	0.14815	0.01000
36	—	0.00000
37	0.14015	0.00800
38	—	0.00000
39	0.13296	0.00700
40	—	0.00000

**COSEL**

Model	LEP240F-36		
Item	Leakage Current 漏洩電流	Temperature	25℃
Object		Testing Circuitry	Figure B

## 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.

交流入力の高相について測定し、その大きい方を漏洩電流測定値とする。

**COSEL**

Model	LEP240F-36	Temperature 25°C Testing Circuitry Figure C
Item	Line Noise Tolerance 入力雑音耐量	
Object	+36V6.7A	

## 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		No protection failure should occur	DC-like Regulation of Output Voltage
		POLARITY	保護回路の誤動作がない	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	LEP240F-36	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

## 1. Graph

Remarks

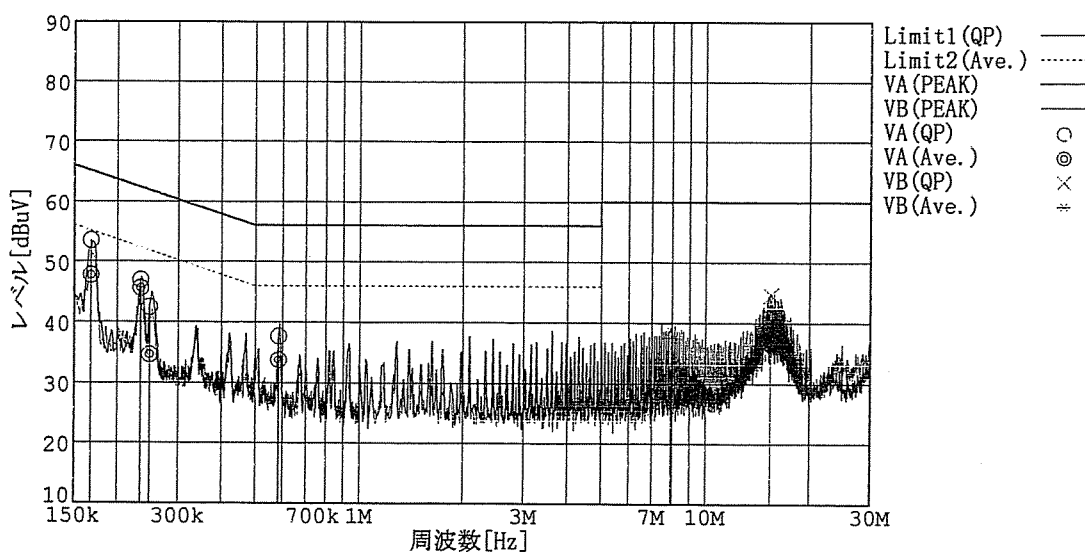
Input Volt. 100V ( VCCI Class B )

120V ( FCC Class B )

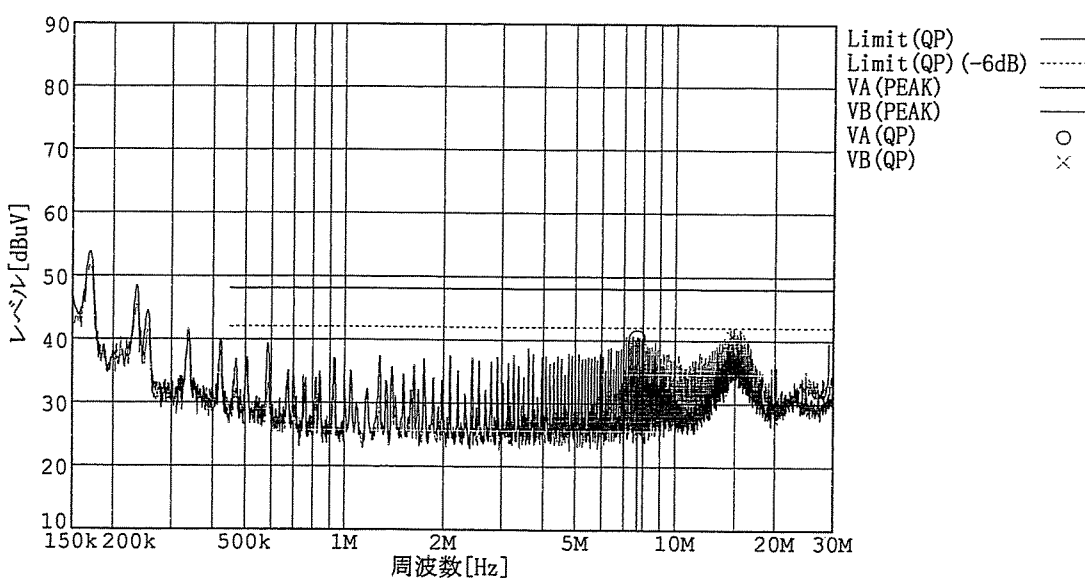
Load 100%

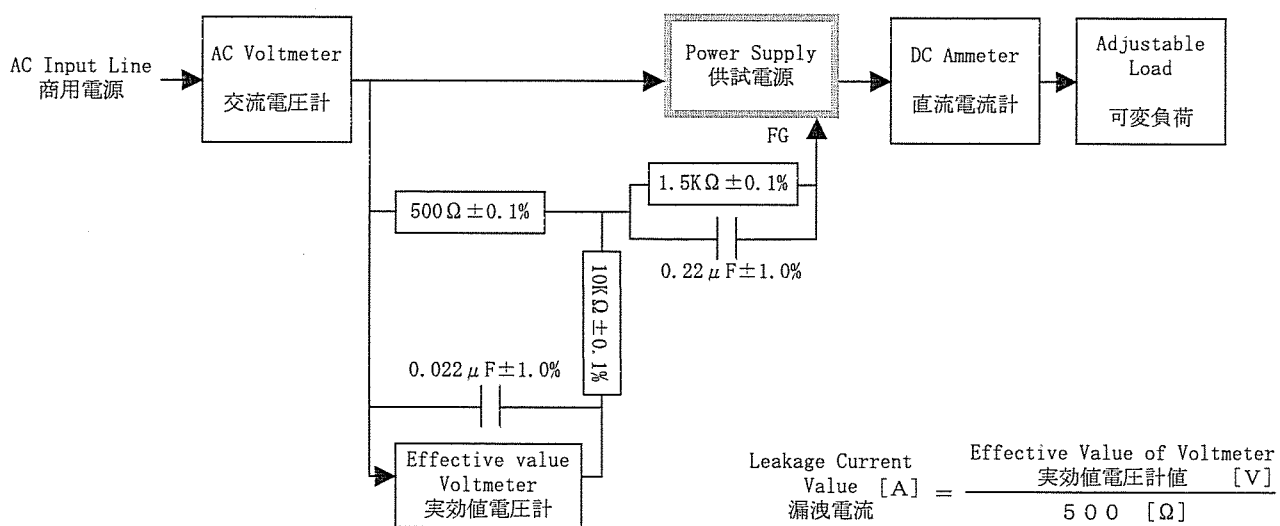
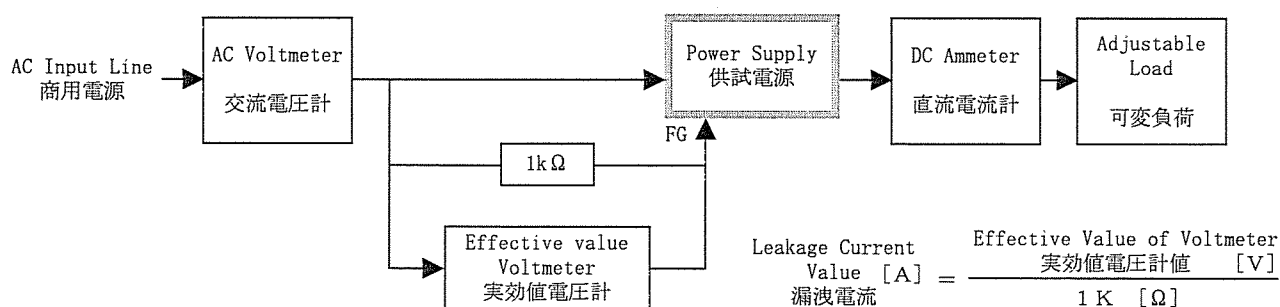
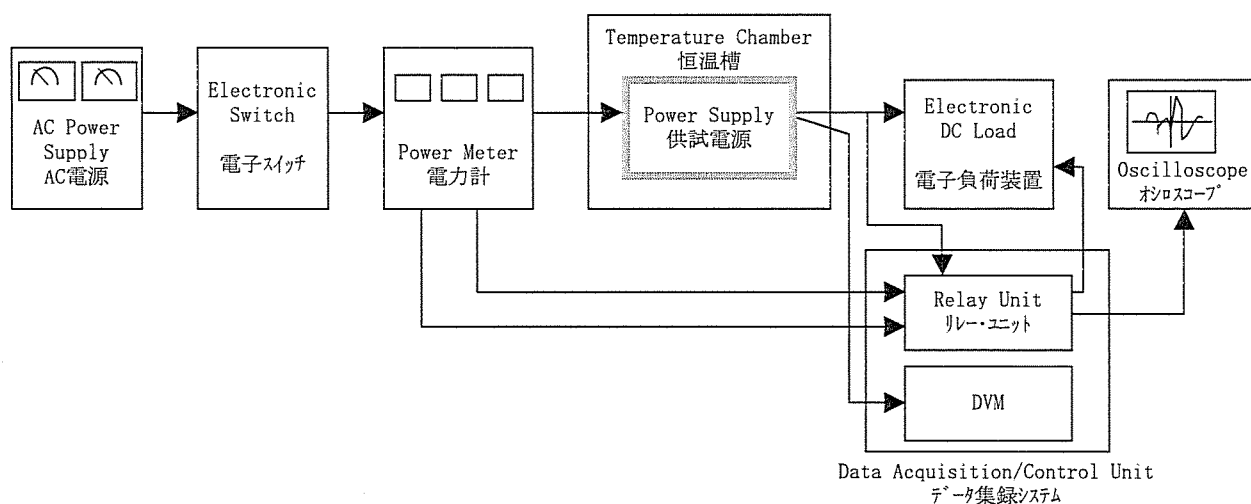
規格1: [VCCI] Class B(QP)

規格2: [VCCI] Class B(平均値)



規格: [FCC Part15] Class B





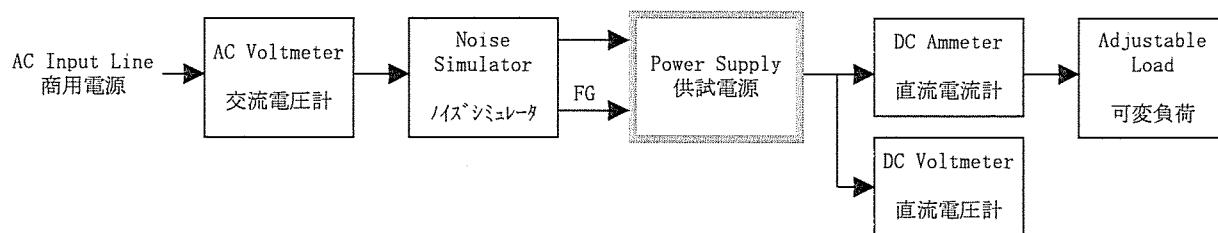


Figure C

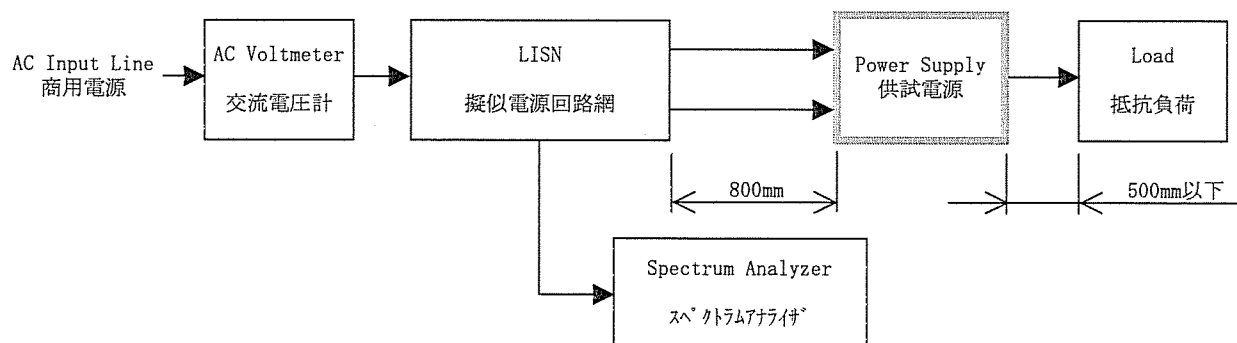


Figure D

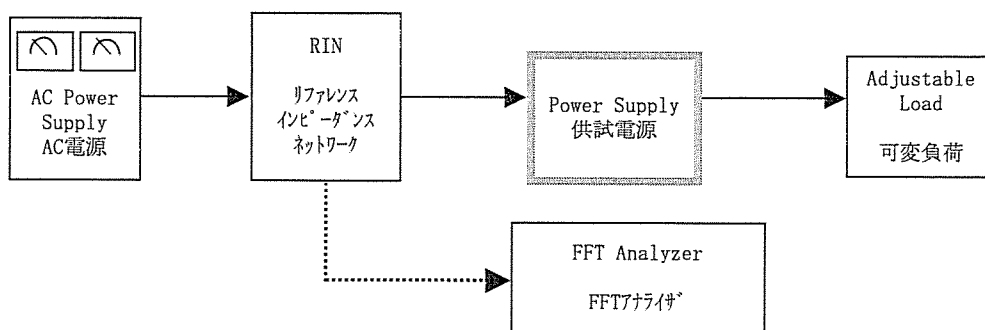


Figure E