




TEST DATA OF LEP240F-48

(100V INPUT)

Regulated DC Power Supply
Apr. 3. 2003

Approved by : 
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コーセル株式会社
COSEL CO.,LTD.

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Model	LEP240F-48																																
Item	Line Regulation 静の入力変動	Temperature	25℃																														
Object	+48V5A	Testing Circuitry	Figure A																														
1. Graph		2. Values																															
<div><div>---□---</div><div>Load 50%</div></div> <div><div>—△—</div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] (Load 50%)</th><th>Output Voltage [V] (Load 100%)</th></tr></thead><tbody><tr><td>75</td><td>48.410</td><td>48.407</td></tr><tr><td>80</td><td>48.410</td><td>48.407</td></tr><tr><td>85</td><td>48.411</td><td>48.406</td></tr><tr><td>90</td><td>48.411</td><td>48.406</td></tr><tr><td>100</td><td>48.411</td><td>48.405</td></tr><tr><td>110</td><td>48.411</td><td>48.404</td></tr><tr><td>120</td><td>48.411</td><td>48.404</td></tr><tr><td>132</td><td>48.411</td><td>48.404</td></tr><tr><td>140</td><td>48.411</td><td>48.404</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] (Load 50%)	Output Voltage [V] (Load 100%)	75	48.410	48.407	80	48.410	48.407	85	48.411	48.406	90	48.411	48.406	100	48.411	48.405	110	48.411	48.404	120	48.411	48.404	132	48.411	48.404	140	48.411	48.404		
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<div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>-·-○-·-</div><div>Input Volt. 132V</div></div></div> <div><div><div>Input Power [W]</div><div>500</div><div>400</div><div>300</div><div>200</div><div>100</div><div>0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>Load Current [A]</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>8.1</td><td>9.0</td><td>8.1</td></tr><tr><td>0.8</td><td>52.3</td><td>53.6</td><td>51.6</td></tr><tr><td>1.6</td><td>96.1</td><td>95.0</td><td>95.1</td></tr><tr><td>2.4</td><td>138.6</td><td>138.9</td><td>136.1</td></tr><tr><td>3.2</td><td>184.1</td><td>180.3</td><td>179.1</td></tr><tr><td>4.0</td><td>226.0</td><td>225.6</td><td>223.1</td></tr><tr><td>4.8</td><td>272.1</td><td>270.3</td><td>265.5</td></tr><tr><td>5.0</td><td>283.8</td><td>281.0</td><td>276.3</td></tr><tr><td>5.5</td><td>314.0</td><td>308.1</td><td>303.9</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]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	8.1	9.0	8.1	0.8	52.3	53.6	51.6	1.6	96.1	95.0	95.1	2.4	138.6	138.9	136.1	3.2	184.1	180.3	179.1	4.0	226.0	225.6	223.1	4.8	272.1	270.3	265.5	5.0	283.8	281.0	276.3	5.5	314.0	308.1	303.9	--	--	--	--	--	--	--	--
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<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div> <div>Hold-Up Time [mS]</div> <div>Input Voltage [V]</div>		<table><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><tr><td>75</td><td>74</td><td>30</td></tr><tr><td>80</td><td>77</td><td>32</td></tr><tr><td>85</td><td>79</td><td>34</td></tr><tr><td>90</td><td>81</td><td>36</td></tr><tr><td>100</td><td>84</td><td>38</td></tr><tr><td>110</td><td>87</td><td>40</td></tr><tr><td>120</td><td>89</td><td>42</td></tr><tr><td>132</td><td>91</td><td>44</td></tr><tr><td>140</td><td>92</td><td>45</td></tr></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	74	30	80	77	32	85	79	34	90	81	36	100	84	38	110	87	40	120	89	42	132	91	44	140	92	45
Input Voltage [V]	Hold-Up Time [mS]																																		
	Load 50%	Load 100%																																	
75	74	30																																	
80	77	32																																	
85	79	34																																	
90	81	36																																	
100	84	38																																	
110	87	40																																	
120	89	42																																	
132	91	44																																	
140	92	45																																	
<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>																																			

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COSEL

Model	LEP240F-48																																																					
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature	25℃																																																			
Object	+48V5A	Testing Circuitry	Figure A																																																			
1. Graph		2. Values																																																				
<div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>---○---</div><div>Input Volt. 132V</div></div></div> <div><div><div>Instantaneous Compensation Time [mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0246</div><div>Load Current [A]</div></div></div> <div><div>Note: Slanted line shows the range of the rated load current.</div><div>(注) 斜線は定格負荷電流範囲を示す。</div></div>		<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>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.8</td><td>230</td><td>239</td><td>256</td></tr><tr><td>1.6</td><td>113</td><td>122</td><td>131</td></tr><tr><td>2.4</td><td>63</td><td>72</td><td>89</td></tr><tr><td>3.2</td><td>40</td><td>47</td><td>64</td></tr><tr><td>4.0</td><td>39</td><td>43</td><td>47</td></tr><tr><td>4.8</td><td>35</td><td>40</td><td>44</td></tr><tr><td>5.0</td><td>32</td><td>38</td><td>43</td></tr><tr><td>5.5</td><td>28</td><td>31</td><td>38</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]	0.0	—	—	—	0.8	230	239	256	1.6	113	122	131	2.4	63	72	89	3.2	40	47	64	4.0	39	43	47	4.8	35	40	44	5.0	32	38	43	5.5	28	31	38	--	—	—	—	--	—	—	—
Load Current [A]	Time [mS]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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1.6	113	122	131																																																			
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5.0	32	38	43																																																			
5.5	28	31	38																																																			
--	—	—	—																																																			
--	—	—	—																																																			

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COSEL

Model	LEP240F-48																																								
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Temperature	25℃																																						
Object	+48V5A	Testing Circuitry	Figure A																																						
1. Graph		2. Values																																							
<div><div>—△— Input Volt. 85V - -○- - Input Volt. 132V</div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div> <div><p>Ripple Voltage is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p><p>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。</p><div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div></div><div><p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.0</td><td>20</td><td>20</td></tr><tr><td>0.8</td><td>50</td><td>50</td></tr><tr><td>1.6</td><td>50</td><td>50</td></tr><tr><td>2.4</td><td>50</td><td>50</td></tr><tr><td>3.2</td><td>50</td><td>50</td></tr><tr><td>4.0</td><td>60</td><td>60</td></tr><tr><td>4.8</td><td>60</td><td>60</td></tr><tr><td>5.0</td><td>60</td><td>60</td></tr><tr><td>5.5</td><td>60</td><td>60</td></tr><tr><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	20	20	0.8	50	50	1.6	50	50	2.4	50	50	3.2	50	50	4.0	60	60	4.8	60	60	5.0	60	60	5.5	60	60	--	--	--	--	--	--
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
0.0	20	20																																							
0.8	50	50																																							
1.6	50	50																																							
2.4	50	50																																							
3.2	50	50																																							
4.0	60	60																																							
4.8	60	60																																							
5.0	60	60																																							
5.5	60	60																																							
--	--	--																																							
--	--	--																																							

COSEL

Model	LEP240F-48																																								
Item	Ripple-Noise リップルノイズ	Temperature	25℃																																						
Object	+48V5A	Testing Circuitry	Figure A																																						
1. Graph		2. Values																																							
<div><div><div>—△— Input Volt. 85V</div><div>-○- Input Volt. 132V</div></div><div>Ripple-Noise [mV]</div><div>Load Current [A]</div></div> <p>Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>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。</p> <div><div><div>Ripple Noise[mVp-p]</div></div><div>Fig. Complex Ripple Noise Wave Form 図 リップルノイズ波形</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.0</td><td>140</td><td>140</td></tr><tr><td>0.8</td><td>90</td><td>90</td></tr><tr><td>1.6</td><td>100</td><td>100</td></tr><tr><td>2.4</td><td>110</td><td>110</td></tr><tr><td>3.2</td><td>110</td><td>110</td></tr><tr><td>4.0</td><td>120</td><td>120</td></tr><tr><td>4.8</td><td>130</td><td>130</td></tr><tr><td>5.0</td><td>130</td><td>130</td></tr><tr><td>5.5</td><td>130</td><td>135</td></tr><tr><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td></tr></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	140	140	0.8	90	90	1.6	100	100	2.4	110	110	3.2	110	110	4.0	120	120	4.8	130	130	5.0	130	130	5.5	130	135	--	--	--	--	--	--
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
0.0	140	140																																							
0.8	90	90																																							
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5.5	130	135																																							
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COSEL

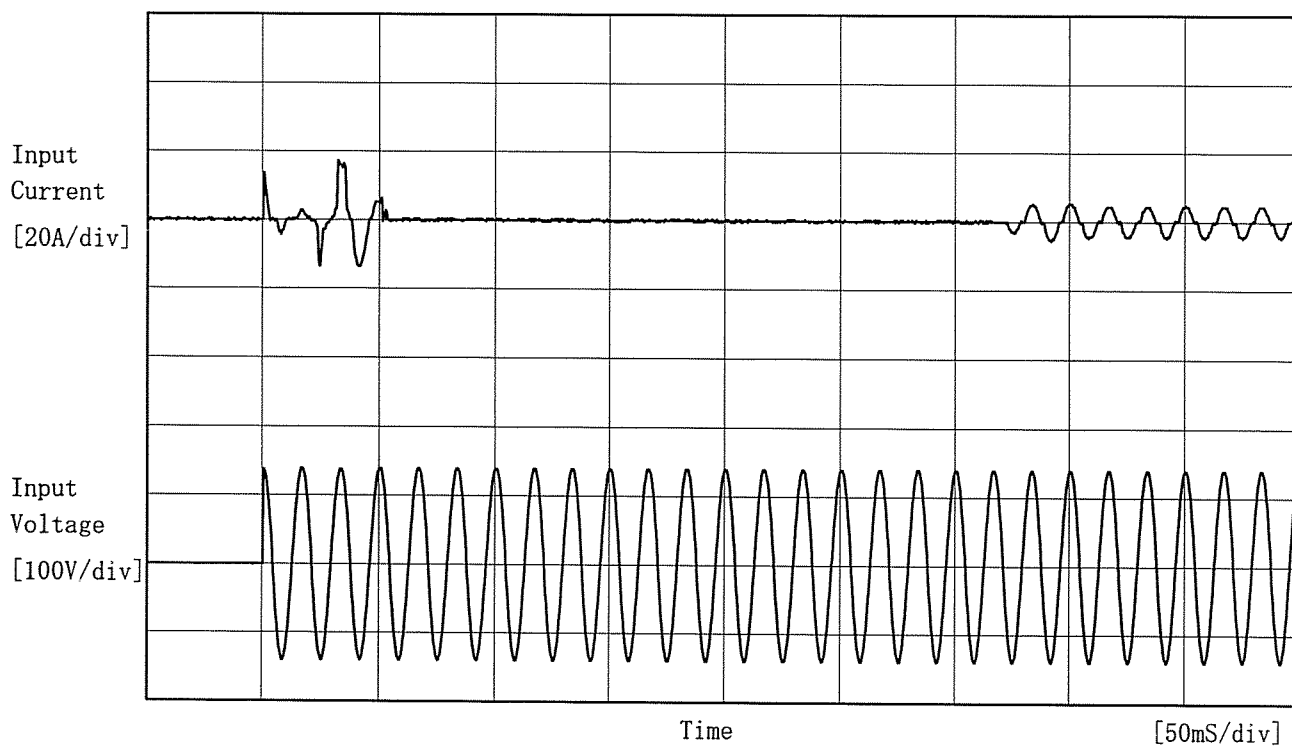
Model	LEP240F-48		
Item	Overcurrent Protection 過電流保護	Temperature	25°C
Object	+48V5A	Testing Circuitry	Figure A
1. Graph		2. Values	

(注) 斜線は定格周囲温度範囲を示す。

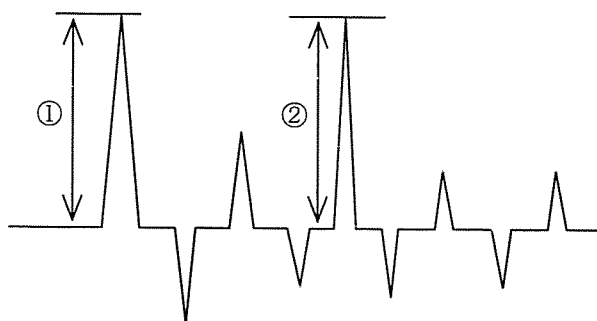
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	59.27	59.27	59.27
-10	59.99	59.93	59.93
0	60.51	60.46	60.46
10	61.04	61.04	61.04
25	61.86	61.86	61.86
40	62.67	62.67	62.67
45	62.91	62.91	62.91
50	63.20	63.20	63.20
60	63.73	63.73	63.73
70	64.26	64.26	64.26
---	—	—	—

COSEL

Model	LEP240F-48	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



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

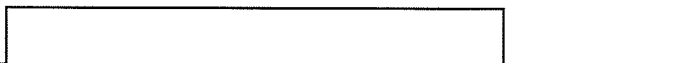




Model	LEP240F-48	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response 動的負荷変動	
Object	+48V5A	

Input Volt. 100 V
Cycle 1000 ms

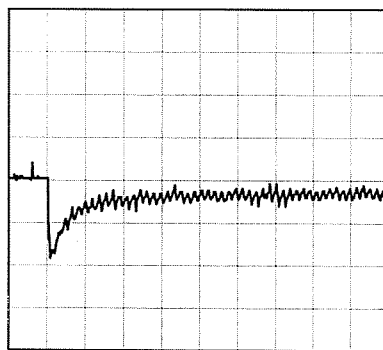
Load Current



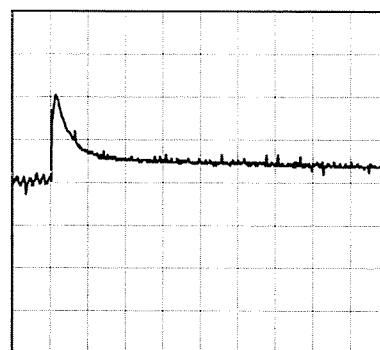
Min. Load (0A) ←→

Load 100% (5A)

100 mV/div



10 ms/div

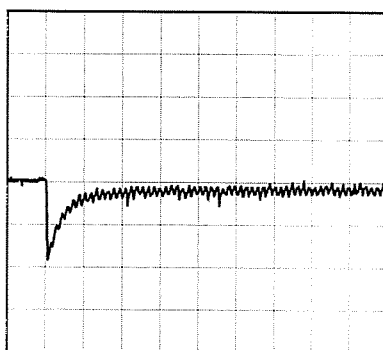


10 ms/div

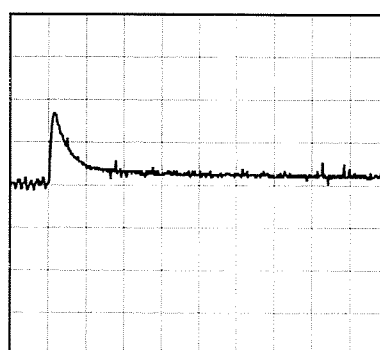
Min. Load (0A) ←→

Load 50% (2.5A)

100 mV/div



10 ms/div



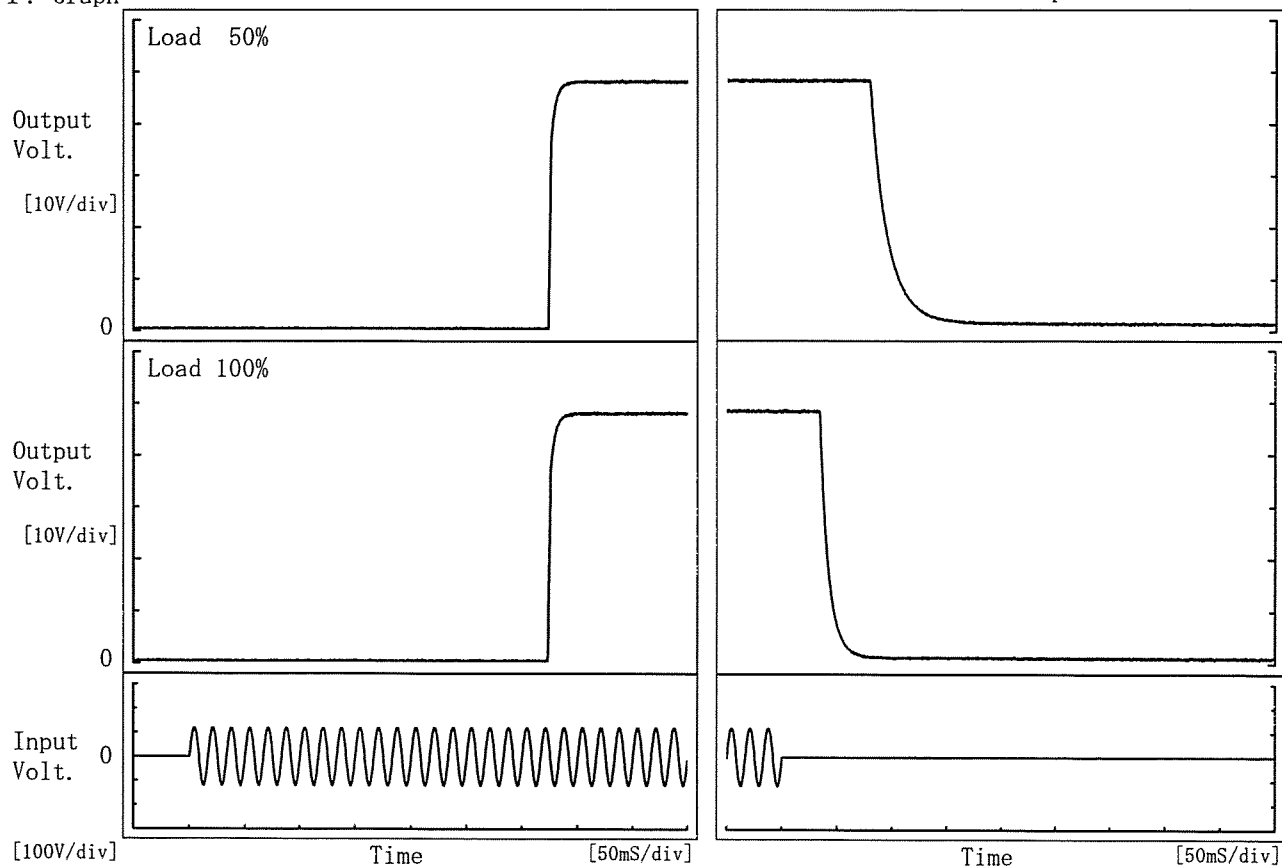
10 ms/div

COSEL

Model	LEP240F-48	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+48V5A		

1. Graph

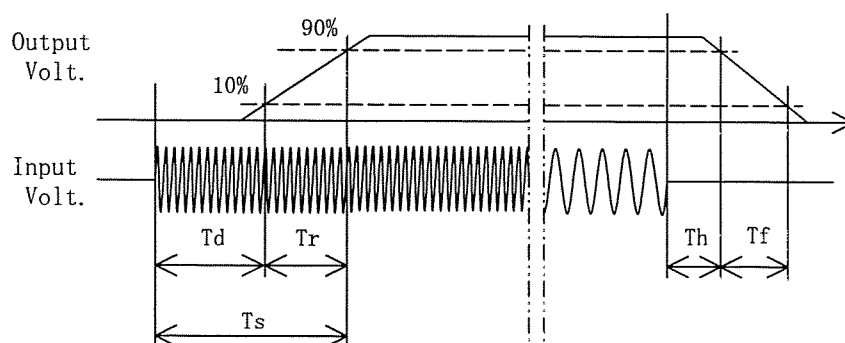
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	323.8	6.0	329.8	80.8	38.5
100 %	323.3	6.3	329.6	35.3	18.8



Testing Circuitry Figure A

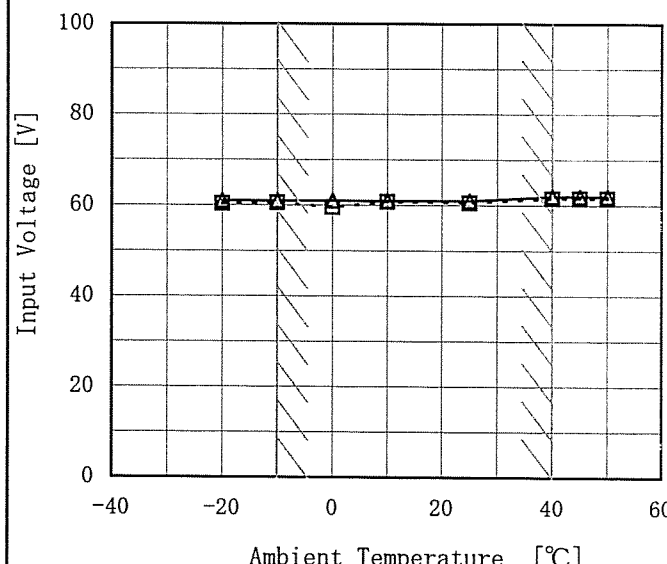
2. Values

Load 100%

(注) 斜線は定格周囲温度範囲を示す。

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COSEL

		Testing Circuitry Figure A																																						
Model	LEP240F-48																																							
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object	+48V5A																																							
1. Graph <div style="text-align: right; margin-top: 10px;"> <div>---□---</div> Load 50% <div>—△—</div> Load 100% </div>  <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注) 斜線は定格周囲温度範囲を示す。</p>		2. Values <table border="1" style="margin-top: 10px; width: 100%;"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>-20</td><td>61</td><td>61</td></tr> <tr><td>-10</td><td>61</td><td>61</td></tr> <tr><td>0</td><td>60</td><td>61</td></tr> <tr><td>10</td><td>61</td><td>61</td></tr> <tr><td>25</td><td>61</td><td>61</td></tr> <tr><td>40</td><td>62</td><td>62</td></tr> <tr><td>45</td><td>62</td><td>62</td></tr> <tr><td>50</td><td>62</td><td>62</td></tr> <tr><td>--</td><td>—</td><td>—</td></tr> <tr><td>--</td><td>—</td><td>—</td></tr> <tr><td>--</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	61	61	-10	61	61	0	60	61	10	61	61	25	61	61	40	62	62	45	62	62	50	62	62	--	—	—	--	—	—	--	—	—
Ambient Temperature [°C]	Input Voltage [V]																																							
	Load 50%	Load 100%																																						
-20	61	61																																						
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0	60	61																																						
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25	61	61																																						
40	62	62																																						
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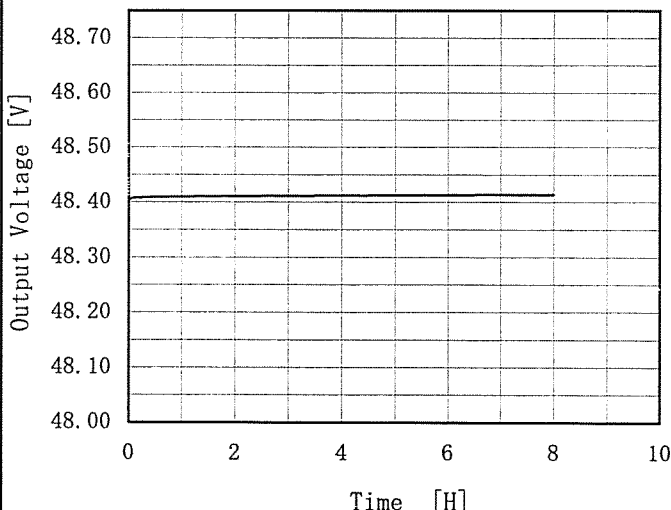
COSEL

Model	LEP240F-48																																								
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	Testing Circuitry Figure A																																							
Object	+48V5A																																								
1. Graph		2. Values																																							
<div><div>---□--- Load 50%</div><div>—△— Load 100%</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>180</td><td>200</td></tr><tr><td>-10</td><td>120</td><td>160</td></tr><tr><td>0</td><td>100</td><td>110</td></tr><tr><td>10</td><td>80</td><td>90</td></tr><tr><td>25</td><td>50</td><td>60</td></tr><tr><td>40</td><td>40</td><td>45</td></tr><tr><td>45</td><td>40</td><td>45</td></tr><tr><td>50</td><td>40</td><td>45</td></tr><tr><td>60</td><td>35</td><td>40</td></tr><tr><td>70</td><td>35</td><td>40</td></tr><tr><td>--</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	180	200	-10	120	160	0	100	110	10	80	90	25	50	60	40	40	45	45	40	45	50	40	45	60	35	40	70	35	40	--	—	—
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
	Load 50%	Load 100%																																							
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-10	120	160																																							
0	100	110																																							
10	80	90																																							
25	50	60																																							
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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。																																									

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COSEL

Model	LEP240F-48																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	+48V5A	Testing Circuitry	Figure A																						
1. Graph		2. Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>48.399</td></tr><tr><td>0.5</td><td>48.409</td></tr><tr><td>1.0</td><td>48.410</td></tr><tr><td>2.0</td><td>48.412</td></tr><tr><td>3.0</td><td>48.412</td></tr><tr><td>4.0</td><td>48.412</td></tr><tr><td>5.0</td><td>48.413</td></tr><tr><td>6.0</td><td>48.414</td></tr><tr><td>7.0</td><td>48.414</td></tr><tr><td>8.0</td><td>48.414</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	48.399	0.5	48.409	1.0	48.410	2.0	48.412	3.0	48.412	4.0	48.412	5.0	48.413	6.0	48.414	7.0	48.414	8.0	48.414
Time since start [H]	Output Voltage [V]																								
0.0	48.399																								
0.5	48.409																								
1.0	48.410																								
2.0	48.412																								
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4.0	48.412																								
5.0	48.413																								
6.0	48.414																								
7.0	48.414																								
8.0	48.414																								

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Model		LEP240F-48	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+48V5A	

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 ~ 5A

* 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 ~ 5A

* 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	40	132	0	48.463	±50	±0.1
Minimum Voltage	-10	132	5	48.364		

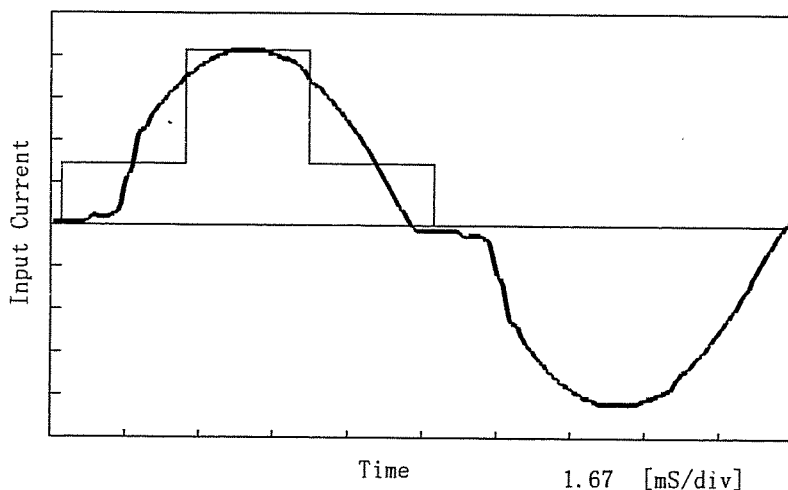
COSEL

Model	LEP240F-48	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

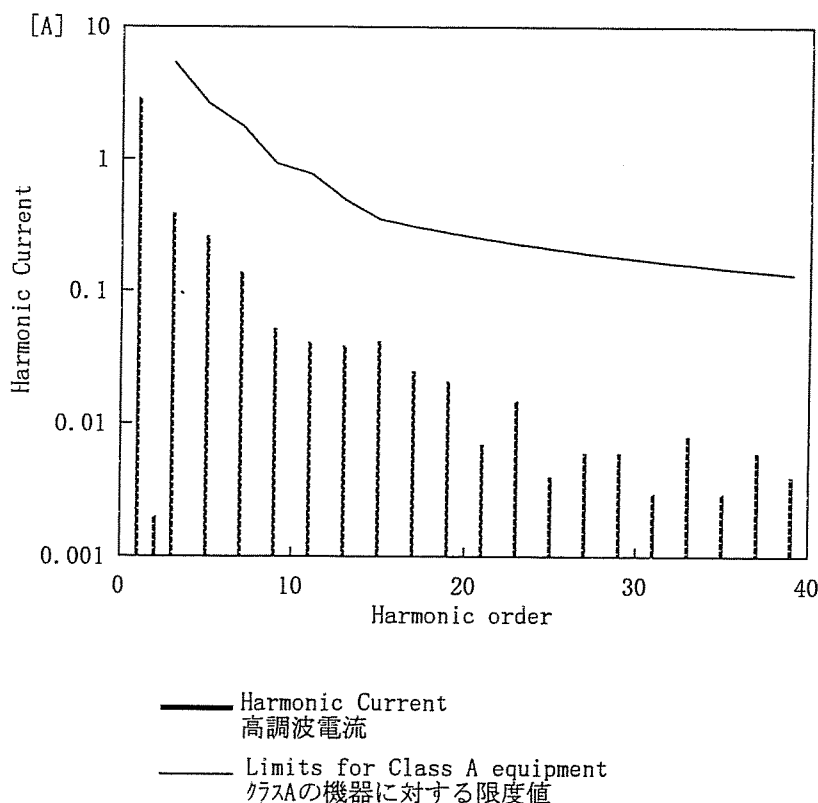
1. Input Current Waveform

— 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

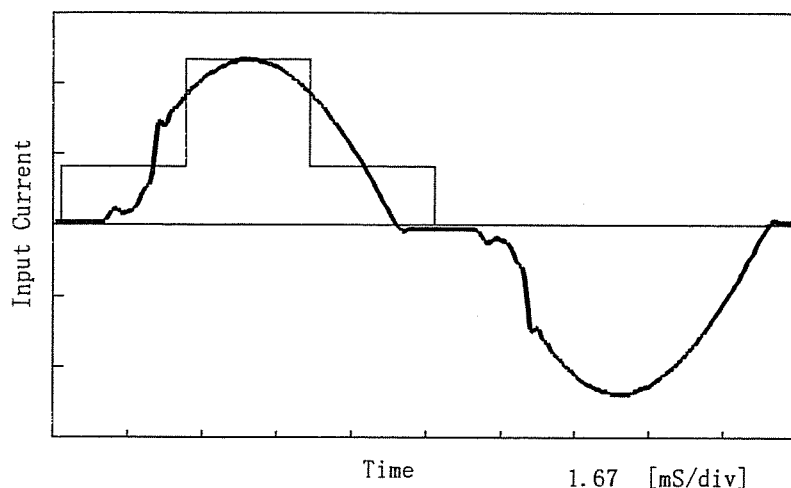
COSEL

Model	LEP240F-48	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

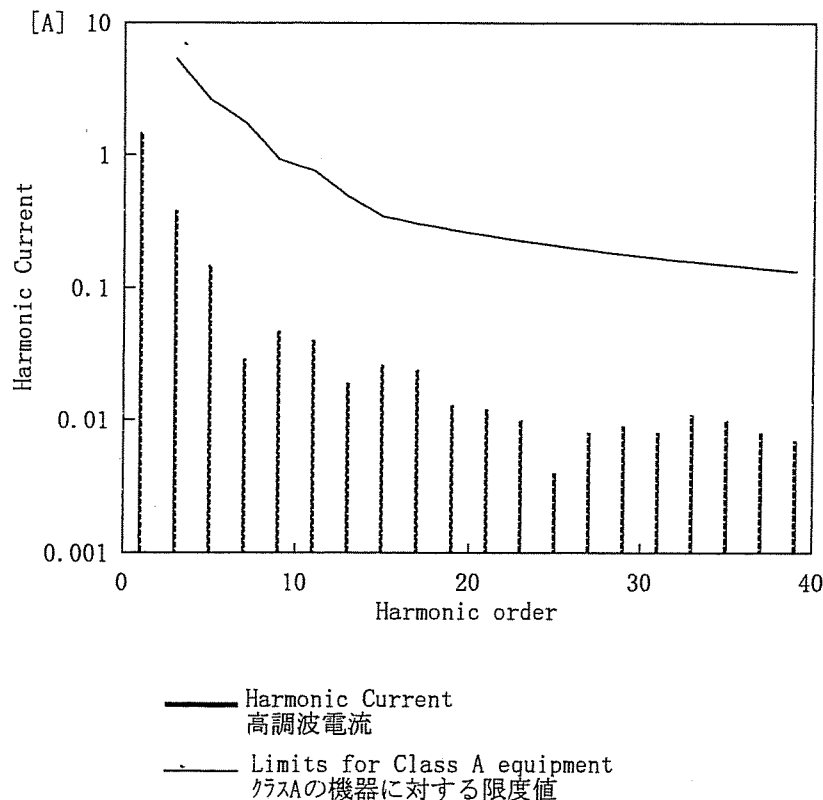
1. Input Current Waveform

— 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]	99.8
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-48		
Item	Leakage Current 漏洩電流	Temperature	25°C
Object		Testing Circuitry	Figure B

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 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. 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.

交流入力の一相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model	LEP240F-48	Temperature	25°C
Item	Line Noise Tolerance 入力雑音耐量	Testing Circuitry	Figure C
Object	+48V5A		

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-48	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

Remarks

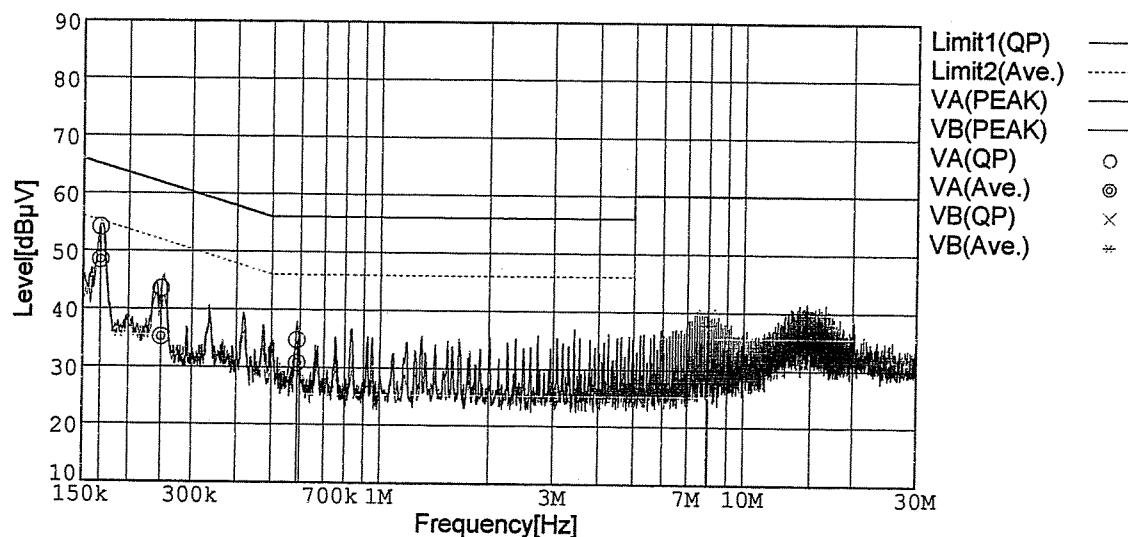
Input Volt. 100V (VCCI Class B)

120V (FCC Class B)

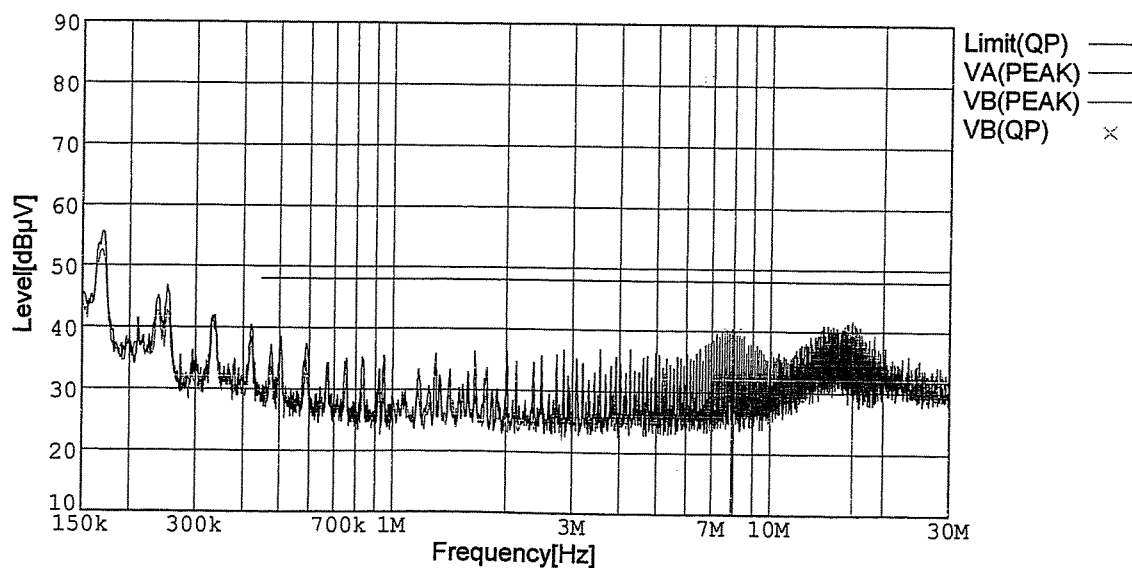
Load 100%

Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit: [FCC Part15] Class B



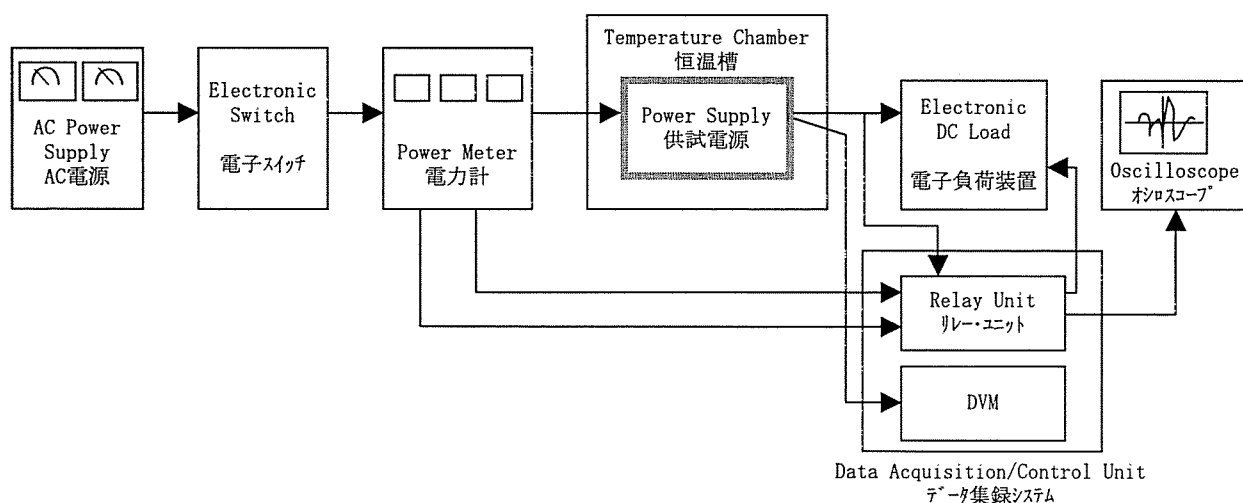


Figure A

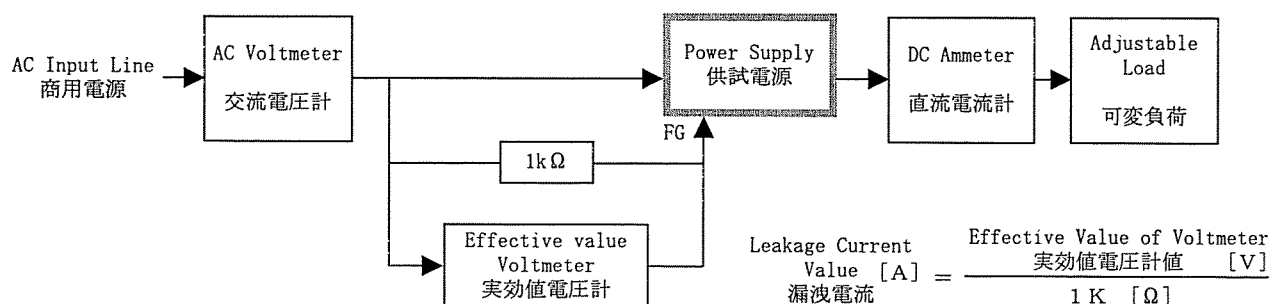


Figure B (DEN-AN)

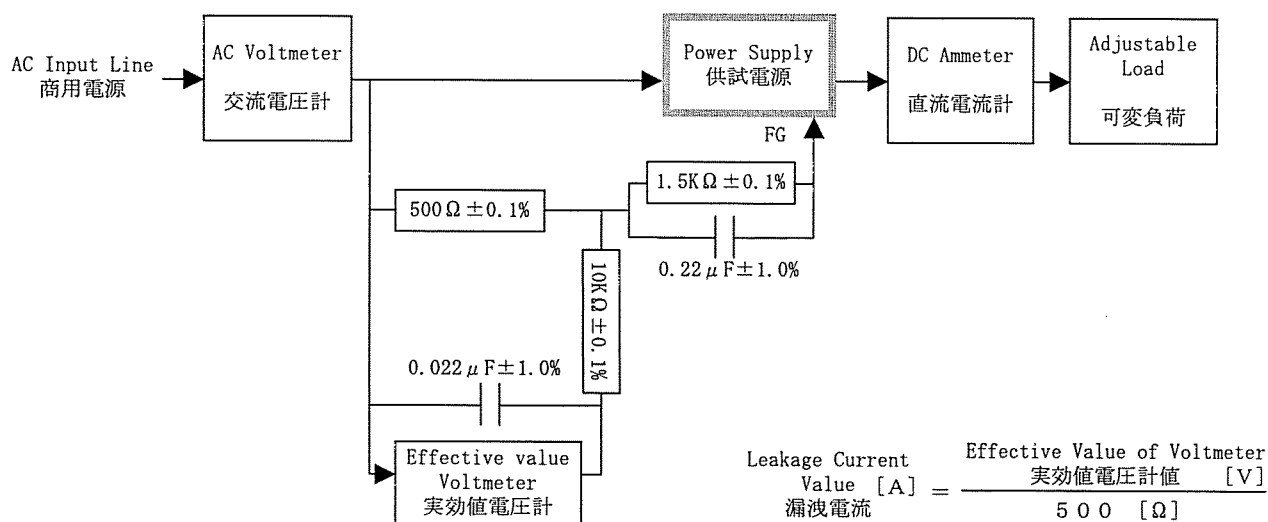


Figure B (IEC60950)

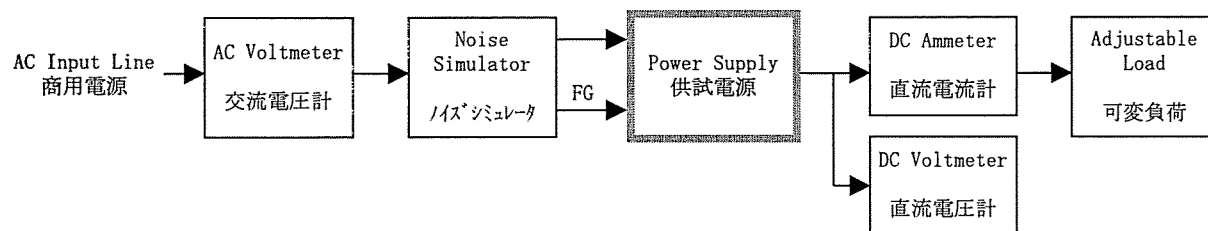


Figure C

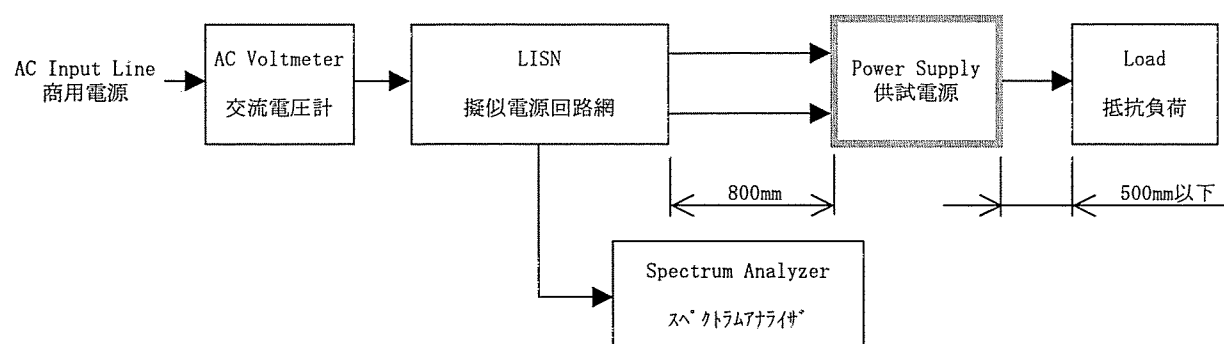


Figure D

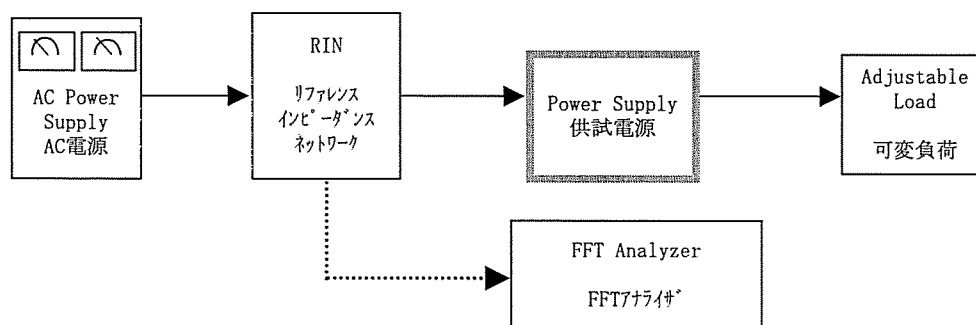


Figure E