



TEST DATA OF LEP240F-48

(200V INPUT)

Regulated DC Power Supply
Apr. 3. 2003

Approved by : 
M. MIYAMAE Design Manager

Prepared by : 
T. MIZUHARA Design Engineer

コーセル株式会社
COSEL CO.,LTD.

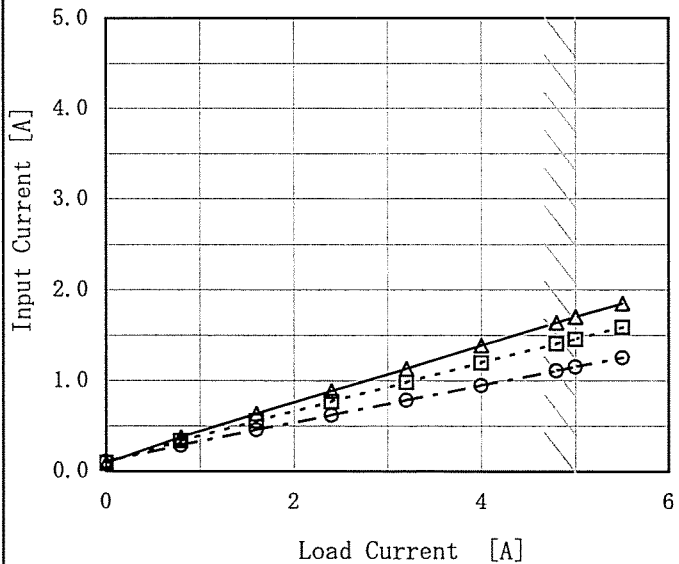
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Model		LEP240F-48	Temperature25℃ Testing CircuitryFigure A																																
Item		Line Regulation 静の入力変動																																	
Object		+48V5A																																	
1. Graph		<div><div><div>---□---</div><div>Load 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">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>150</td><td>48.411</td><td>48.406</td></tr><tr><td>160</td><td>48.412</td><td>48.405</td></tr><tr><td>170</td><td>48.412</td><td>48.405</td></tr><tr><td>180</td><td>48.412</td><td>48.404</td></tr><tr><td>200</td><td>48.412</td><td>48.404</td></tr><tr><td>220</td><td>48.412</td><td>48.404</td></tr><tr><td>240</td><td>48.413</td><td>48.404</td></tr><tr><td>264</td><td>48.412</td><td>48.404</td></tr><tr><td>280</td><td>48.413</td><td>48.404</td></tr></tbody></table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	48.411	48.406	160	48.412	48.405	170	48.412	48.405	180	48.412	48.404	200	48.412	48.404	220	48.412	48.404	240	48.413	48.404	264	48.412	48.404	280	48.413	48.404	2. Values
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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。																																			

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<div><div>—△— Input Volt. 170V</div><div>---□--- Input Volt. 200V</div><div>---○--- Input Volt. 264V</div></div> <table><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr></thead><tbody><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.8</td><td>69.8</td><td>69.8</td><td>69.1</td></tr><tr><td>1.6</td><td>79.3</td><td>79.6</td><td>79.6</td></tr><tr><td>2.4</td><td>83.2</td><td>83.7</td><td>83.7</td></tr><tr><td>3.2</td><td>85.6</td><td>85.7</td><td>85.9</td></tr><tr><td>4.0</td><td>86.3</td><td>86.6</td><td>87.1</td></tr><tr><td>4.8</td><td>86.4</td><td>87.3</td><td>87.8</td></tr><tr><td>5.0</td><td>86.8</td><td>87.4</td><td>88.0</td></tr><tr><td>5.5</td><td>87.0</td><td>87.8</td><td>88.2</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]	Efficiency [%]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	—	—	—	0.8	69.8	69.8	69.1	1.6	79.3	79.6	79.6	2.4	83.2	83.7	83.7	3.2	85.6	85.7	85.9	4.0	86.3	86.6	87.1	4.8	86.4	87.3	87.8	5.0	86.8	87.4	88.0	5.5	87.0	87.8	88.2	--	—	—	—	--	—	—	—				
Load Current [A]	Efficiency [%]																																																									
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2.4	83.2	83.7	83.7																																																							
3.2	85.6	85.7	85.9																																																							
4.0	86.3	86.6	87.1																																																							
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(注) 斜線は定格負荷電流範囲を示す。																																																										

COSEL

Model		LEP240F-48	
Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)	
Object			
1. Graph		2. Values	

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

140

180

220

260

300

Input Voltage [V]

□

Load 50%

△

Load 100%

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

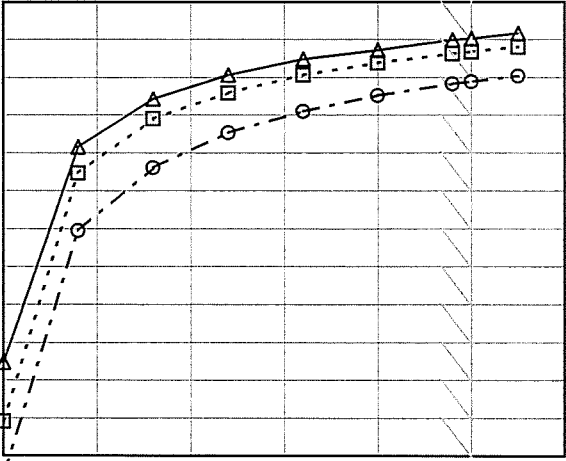
(注) 斜線は定格入力電圧範囲を示す。

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
150	0.918	0.962
160	0.914	0.955
170	0.906	0.950
180	0.896	0.944
200	0.882	0.935
220	0.867	0.923
240	0.851	0.910
264	0.830	0.894
280	0.779	0.869

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BC-0879

COSEL

Model		LEP240F-48		Temperature25℃ Testing CircuitryFigure A																																																				
Item		Power Factor (by Load Current) 力率（負荷特性）																																																						
Object		_____																																																						
1. Graph				2. Values																																																				
<div><div><div>—△—</div><div>Input Volt. 170V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 264V</div></div></div> <div><div><div>Power Factor</div><div>1.0</div><div>0.9</div><div>0.8</div><div>0.7</div><div>0.6</div><div>0.5</div><div>0.4</div></div><div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><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">Power Factor</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>0.523</td><td>0.446</td><td>0.374</td></tr><tr><td>0.8</td><td>0.808</td><td>0.774</td><td>0.698</td></tr><tr><td>1.6</td><td>0.871</td><td>0.845</td><td>0.781</td></tr><tr><td>2.4</td><td>0.903</td><td>0.879</td><td>0.827</td></tr><tr><td>3.2</td><td>0.924</td><td>0.903</td><td>0.855</td></tr><tr><td>4.0</td><td>0.936</td><td>0.919</td><td>0.876</td></tr><tr><td>4.8</td><td>0.950</td><td>0.932</td><td>0.892</td></tr><tr><td>5.0</td><td>0.952</td><td>0.934</td><td>0.895</td></tr><tr><td>5.5</td><td>0.959</td><td>0.940</td><td>0.902</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]	Power Factor			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	0.523	0.446	0.374	0.8	0.808	0.774	0.698	1.6	0.871	0.845	0.781	2.4	0.903	0.879	0.827	3.2	0.924	0.903	0.855	4.0	0.936	0.919	0.876	4.8	0.950	0.932	0.892	5.0	0.952	0.934	0.895	5.5	0.959	0.940	0.902	---	---	---	---	---	---	---	---
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COSEL

Model	LEP240F-48																																
Item	Hold-Up Time 出力保持時間	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>Hold-Up Time [mS] (Load 50%)</th><th>Hold-Up Time [mS] (Load 100%)</th></tr></thead><tbody><tr><td>150</td><td>93</td><td>45</td></tr><tr><td>160</td><td>95</td><td>46</td></tr><tr><td>170</td><td>95</td><td>47</td></tr><tr><td>180</td><td>96</td><td>47</td></tr><tr><td>200</td><td>97</td><td>48</td></tr><tr><td>220</td><td>99</td><td>49</td></tr><tr><td>240</td><td>99</td><td>50</td></tr><tr><td>264</td><td>101</td><td>50</td></tr><tr><td>280</td><td>101</td><td>51</td></tr></tbody></table>		Input Voltage [V]	Hold-Up Time [mS] (Load 50%)	Hold-Up Time [mS] (Load 100%)	150	93	45	160	95	46	170	95	47	180	96	47	200	97	48	220	99	49	240	99	50	264	101	50	280	101	51		
Input Voltage [V]	Hold-Up Time [mS] (Load 50%)	Hold-Up Time [mS] (Load 100%)																															
150	93	45																															
160	95	46																															
170	95	47																															
180	96	47																															
200	97	48																															
220	99	49																															
240	99	50																															
264	101	50																															
280	101	51																															
<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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BC-0879

BC-0879

COSEL

Model		LEP240F-48		Temperature25℃ Testing CircuitryFigure A																																														
Item		Load Regulation 静的負荷変動																																																
Object		+48V5A																																																
1. Graph		—△— Input Volt. 170V ---□--- Input Volt. 200V ---○--- Input Volt. 264V		2. Values																																														
<div><div>Output Voltage [V]</div><div><div>Load Current [A]</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>48.428</td><td>48.428</td><td>48.428</td></tr><tr><td>0.8</td><td>48.421</td><td>48.421</td><td>48.420</td></tr><tr><td>1.6</td><td>48.419</td><td>48.419</td><td>48.418</td></tr><tr><td>2.4</td><td>48.416</td><td>48.416</td><td>48.415</td></tr><tr><td>3.2</td><td>48.412</td><td>48.412</td><td>48.411</td></tr><tr><td>4.0</td><td>48.410</td><td>48.410</td><td>48.409</td></tr><tr><td>4.8</td><td>48.408</td><td>48.408</td><td>48.407</td></tr><tr><td>5.0</td><td>48.408</td><td>48.407</td><td>48.407</td></tr><tr><td>5.5</td><td>48.406</td><td>48.406</td><td>48.406</td></tr><tr><td>--</td><td>—</td><td>—</td><td>—</td></tr></table>			Load Current [A]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	48.428	48.428	48.428	0.8	48.421	48.421	48.420	1.6	48.419	48.419	48.418	2.4	48.416	48.416	48.415	3.2	48.412	48.412	48.411	4.0	48.410	48.410	48.409	4.8	48.408	48.408	48.407	5.0	48.408	48.407	48.407	5.5	48.406	48.406	48.406	--	—	—
Load Current [A]	Output Voltage [V]																																																	
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0.0	48.428	48.428	48.428																																															
0.8	48.421	48.421	48.420																																															
1.6	48.419	48.419	48.418																																															
2.4	48.416	48.416	48.415																																															
3.2	48.412	48.412	48.411																																															
4.0	48.410	48.410	48.409																																															
4.8	48.408	48.408	48.407																																															
5.0	48.408	48.407	48.407																																															
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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。																																																		

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BC-0879

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. 170V - -○- - Input Volt. 264V</div><div>Ripple Voltage [mV]</div><div>Load Current [A]</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。</p><p>(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>Fig. Complex Ripple Wave Form</div><div>図 リップル波形詳細図</div></div> <tr><td colspan="2"></td><td colspan="2"><table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [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></td></tr>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [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. 170 [V]	Input Volt. 264 [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	--	--	--	--	--	--
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [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. 170 [V]	Input Volt. 264 [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	--	--	--	--	--	--		
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5.5	60	60																																									
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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>—△— Input Volt. 170V -·-○-·- Input Volt. 264V</div><div>Ripple-Noise [mV]</div><div>Load Current [A]</div></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>Ripple Noise[mVp-p]</div></div><div><div>Fig. Complex Ripple Noise Wave Form</div><div>図 リップルノイズ波形</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [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>135</td><td>135</td></tr><tr><td>5.5</td><td>140</td><td>140</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. 170 [V]	Input Volt. 264 [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	135	135	5.5	140	140	--	--	--	--	--	--
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 170 [V]	Input Volt. 264 [V]																																							
0.0	140	140																																							
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BC-0879

COSEL

Model		LEP240F-48	
Item		Overcurrent Protection 過電流保護	
Object		+48V5A	

1. Graph

Input Volt. 170V

Input Volt. 200V

Input Volt. 264V

Output Voltage [V]

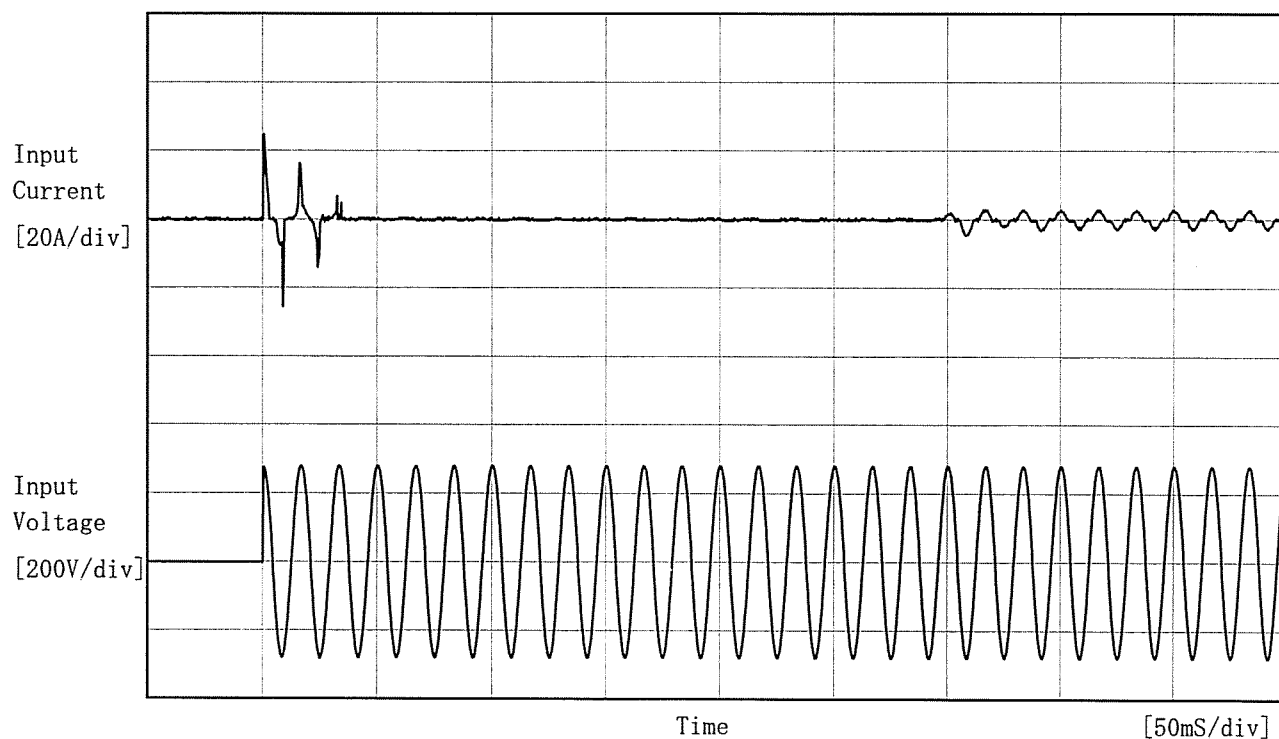
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

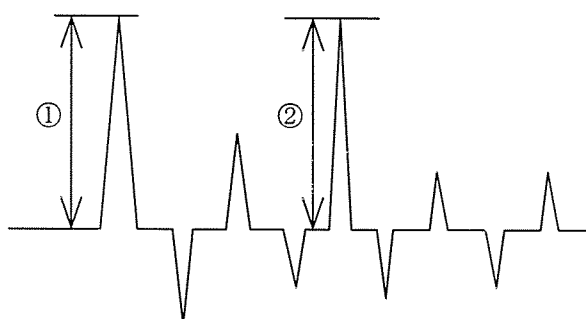
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	59.27	59.27	59.27
-10	59.93	59.98	59.98
0	60.45	60.40	60.51
10	61.04	61.04	61.04
25	61.86	61.86	61.86
40	62.67	62.67	62.67
45	62.91	62.91	62.91
50	63.20	63.20	63.20
60	63.73	63.73	63.73
70	64.26	64.25	64.25
—	—	—	—

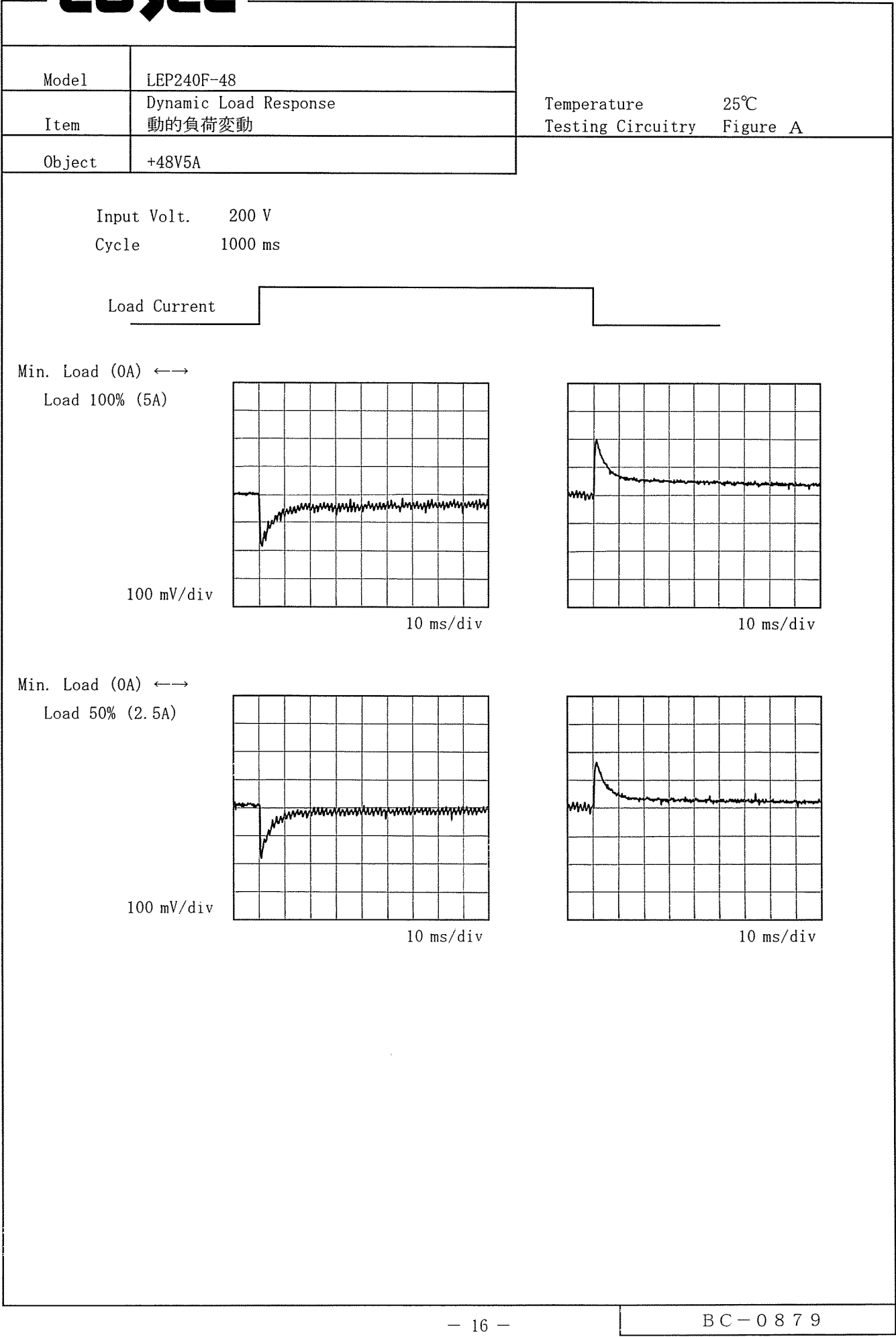
COSEL

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



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



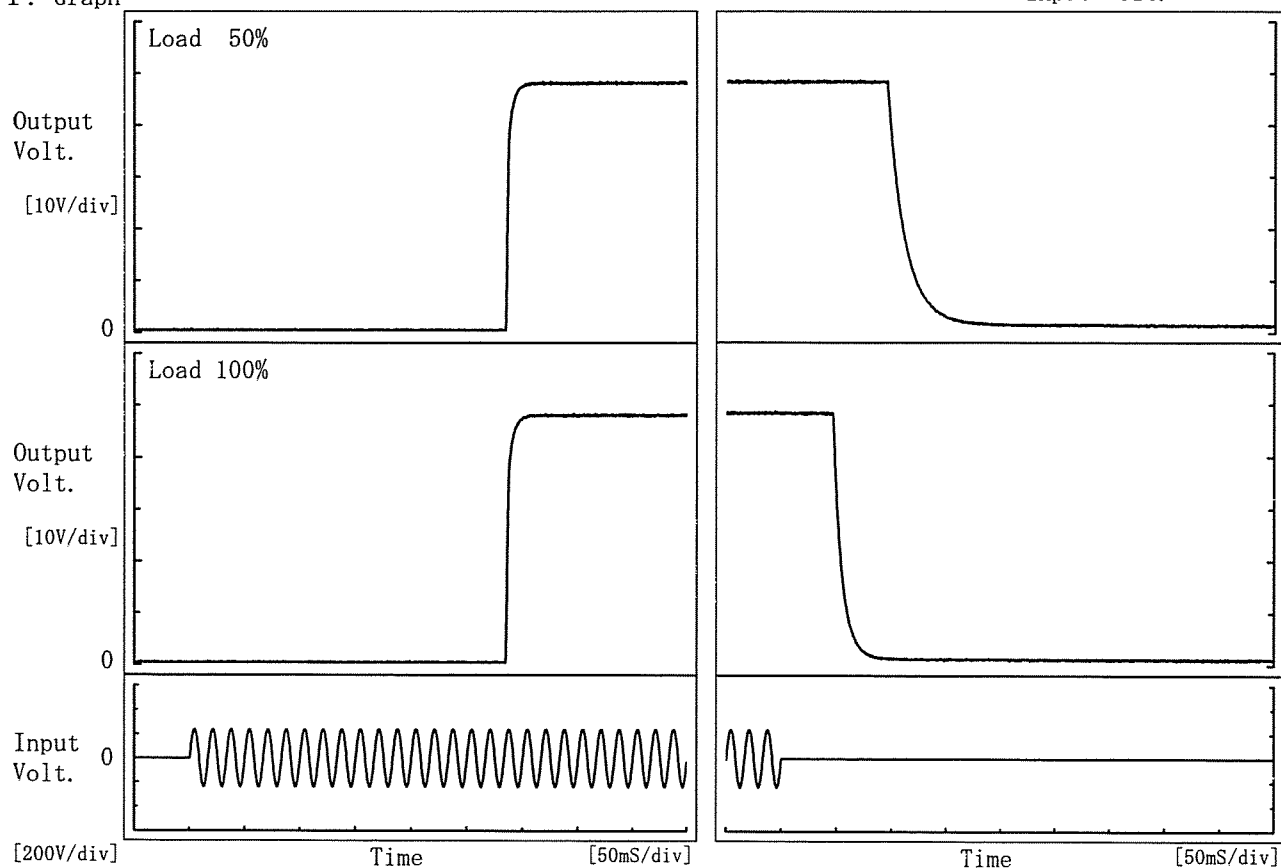


COSEL

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

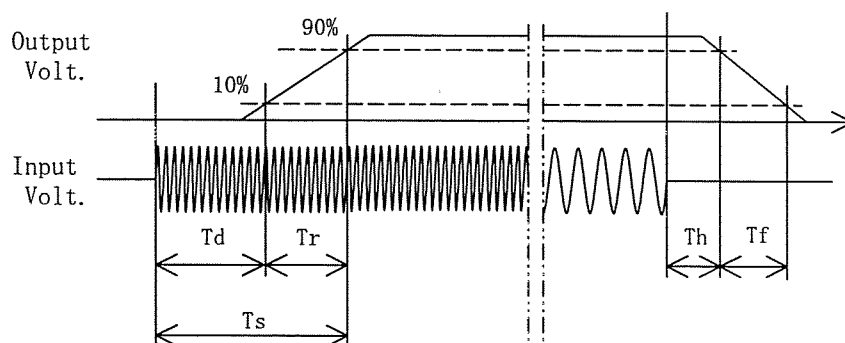
Input Volt. 170 V



2. Values

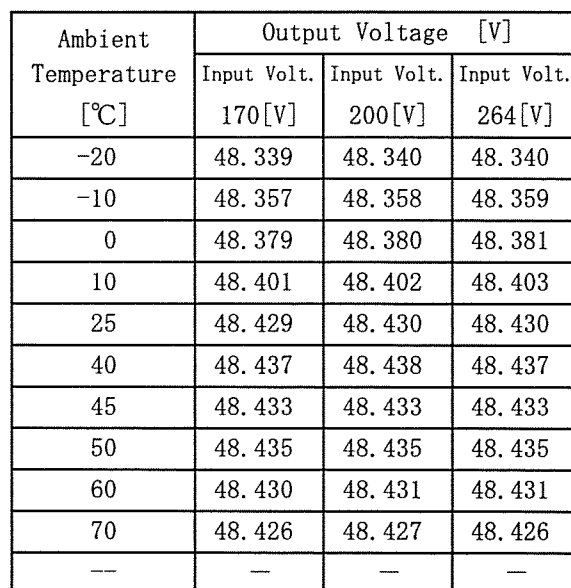
[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	285.3	6.3	291.6	97.0	38.3
100 %	285.3	6.3	291.6	47.8	18.8



Testing Circuitry Figure A

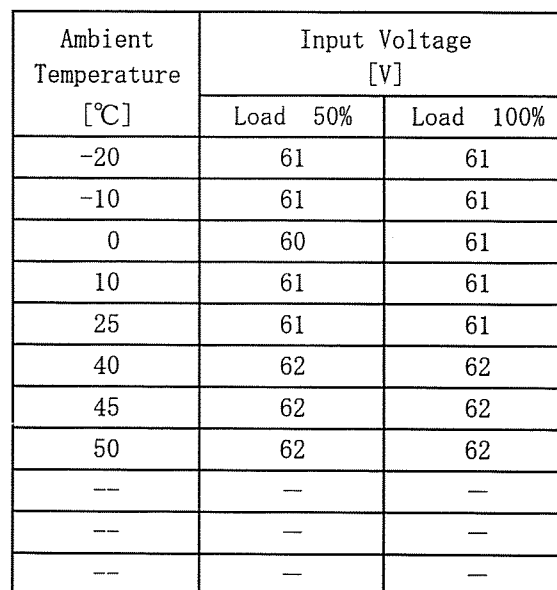
2. Values



(注) 斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

2. Values



(注) 斜線は定格周囲温度範囲を示す。

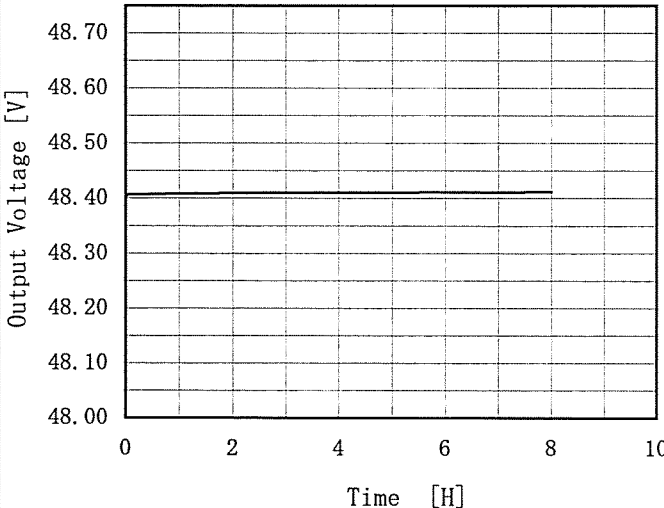
COSEL

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 style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 200V</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>170</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>40</td><td>45</td></tr><tr><td>70</td><td>40</td><td>45</td></tr><tr><td>--</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	170	200	-10	120	160	0	100	110	10	80	90	25	50	60	40	40	45	45	40	45	50	40	45	60	40	45	70	40	45	--	—	—
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
	Load 50%	Load 100%																																							
-20	170	200																																							
-10	120	160																																							
0	100	110																																							
10	80	90																																							
25	50	60																																							
40	40	45																																							
45	40	45																																							
50	40	45																																							
60	40	45																																							
70	40	45																																							
--	—	—																																							
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。																																									

— 20 —

BC-0879

COSEL

Model	LEP240F-48																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
		Testing Circuitry	Figure A																						
Object	+48V5A																								
1. Graph		2. Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 200V</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>48.400</td></tr><tr><td>0.5</td><td>48.408</td></tr><tr><td>1.0</td><td>48.408</td></tr><tr><td>2.0</td><td>48.410</td></tr><tr><td>3.0</td><td>48.410</td></tr><tr><td>4.0</td><td>48.411</td></tr><tr><td>5.0</td><td>48.411</td></tr><tr><td>6.0</td><td>48.411</td></tr><tr><td>7.0</td><td>48.411</td></tr><tr><td>8.0</td><td>48.412</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	48.400	0.5	48.408	1.0	48.408	2.0	48.410	3.0	48.410	4.0	48.411	5.0	48.411	6.0	48.411	7.0	48.411	8.0	48.412
Time since start [H]	Output Voltage [V]																								
0.0	48.400																								
0.5	48.408																								
1.0	48.408																								
2.0	48.410																								
3.0	48.410																								
4.0	48.411																								
5.0	48.411																								
6.0	48.411																								
7.0	48.411																								
8.0	48.412																								

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 : 170 ~ 264V

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 : 170 ~ 264V

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	264	0	48.463	±49	±0.1
Minimum Voltage	-10	200	5	48.366		

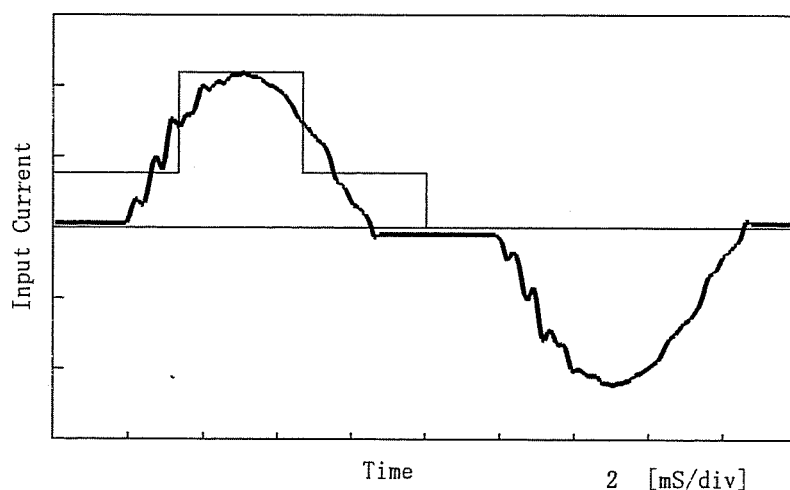
COSEL

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

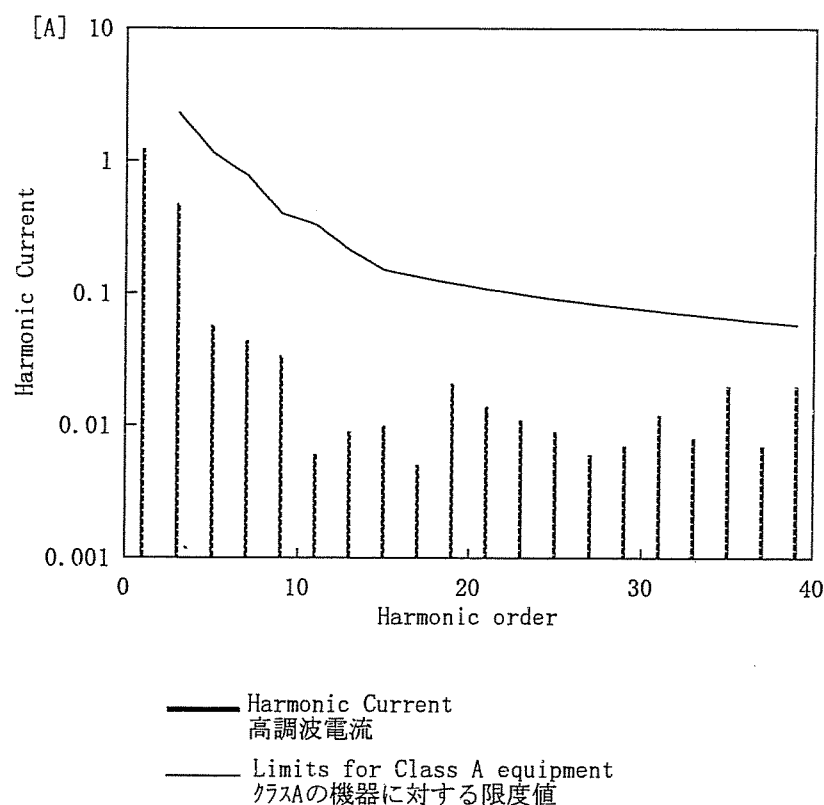
1. Input Current Waveform

— 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]	230.6
Input Current [A]	1.308
Active Power [W]	278.9
Apparent Power [VA]	301.7
Frequency [Hz]	50
Power Factor	0.924
Output Power [W]	240

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.21600
2	—	0.00100
3	2.29402	0.47100
4	—	0.00000
5	1.13703	0.05700
6	—	0.00000
7	0.76800	0.04400
8	—	0.00000
9	0.39896	0.03400
10	—	0.00000
11	0.32914	0.00600
12	—	0.00000
13	0.20945	0.00900
14	—	0.00000
15	0.14961	0.01000
16	—	0.00000
17	0.13201	0.00500
18	—	0.00000
19	0.11811	0.02100
20	—	0.00000
21	0.10686	0.01400
22	—	0.00000
23	0.09757	0.01100
24	—	0.00000
25	0.08977	0.00900
26	—	0.00000
27	0.08312	0.00600
28	—	0.00000
29	0.07738	0.00700
30	—	0.00000
31	0.07239	0.01200
32	—	0.00000
33	0.06800	0.00800
34	—	0.00000
35	0.06412	0.02000
36	—	0.00000
37	0.06065	0.00700
38	—	0.00000
39	0.05754	0.02000
40	—	0.00000

COSEL

Model LEP240F-48

Item Harmonic Current

Object 高調波電流

Temperature 25°C

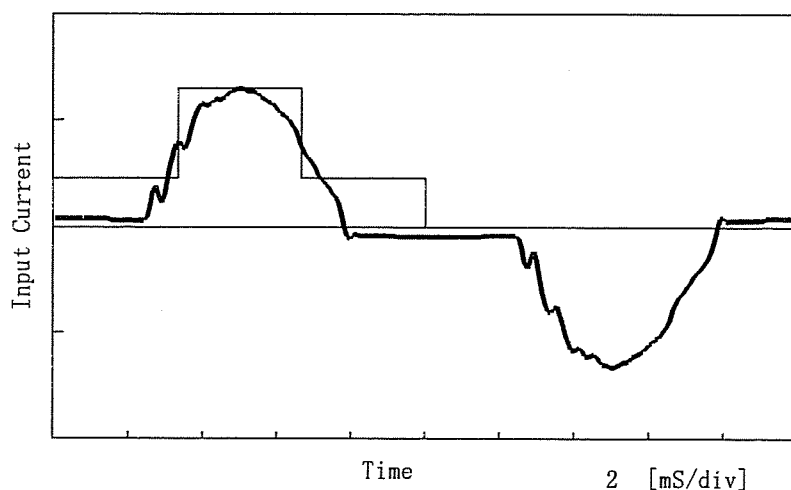
Testing Circuitry

Figure E

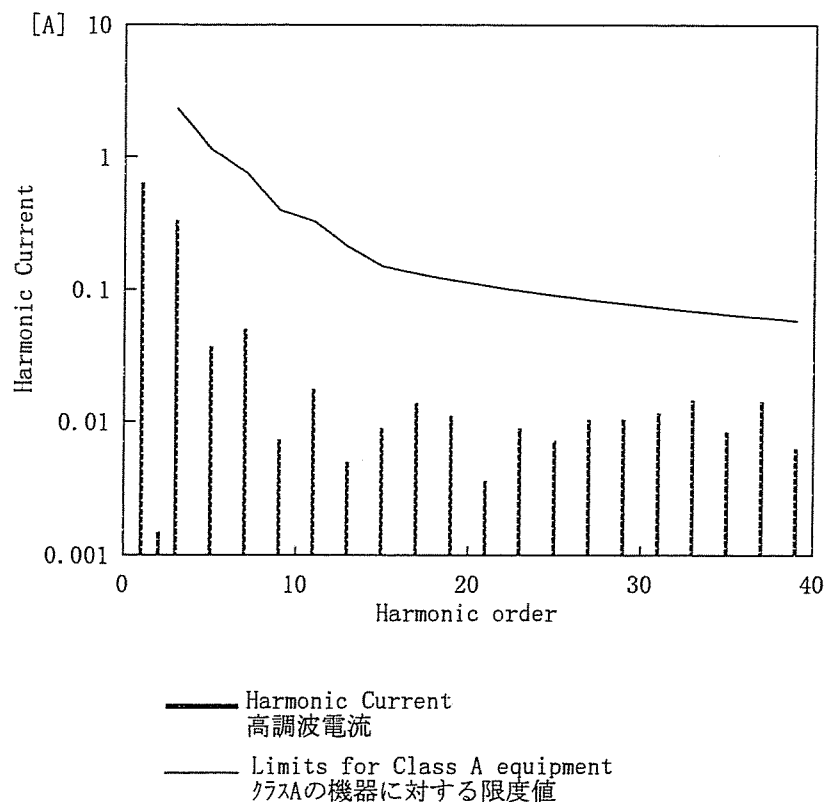
1. Input Current Waveform

— 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]	230.9
Input Current [A]	0.724
Active Power [W]	145.8
Apparent Power [VA]	167.3
Frequency [Hz]	50
Power Factor	0.871
Output Power [W]	120

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.63850
2	—	0.00150
3	2.29104	0.33250
4	—	0.00010
5	1.13556	0.03700
6	—	0.00030
7	0.76700	0.05020
8	—	0.00030
9	0.39844	0.00730
10	—	0.00030
11	0.32871	0.01760
12	—	0.00000
13	0.20918	0.00500
14	—	0.00030
15	0.14942	0.00900
16	—	0.00010
17	0.13184	0.01390
18	—	0.00000
19	0.11796	0.01110
20	—	0.00010
21	0.10673	0.00360
22	—	0.00030
23	0.09744	0.00900
24	—	0.00040
25	0.08965	0.00720
26	—	0.00010
27	0.08301	0.01040
28	—	0.00010
29	0.07728	0.01040
30	—	0.00040
31	0.07230	0.01160
32	—	0.00000
33	0.06792	0.01460
34	—	0.00010
35	0.06404	0.00840
36	—	0.00010
37	0.06057	0.01430
38	—	0.00000
39	0.05747	0.00630
40	—	0.00030

COSEL

		Temperature 25℃ Testing Circuitry Figure B
Model	LEP240F-48	
Item	Leakage Current 漏洩電流	
Object		

1. Results

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

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.31	0.43	0.51

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

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

1. Conditions

- Input Voltage : 200 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
		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

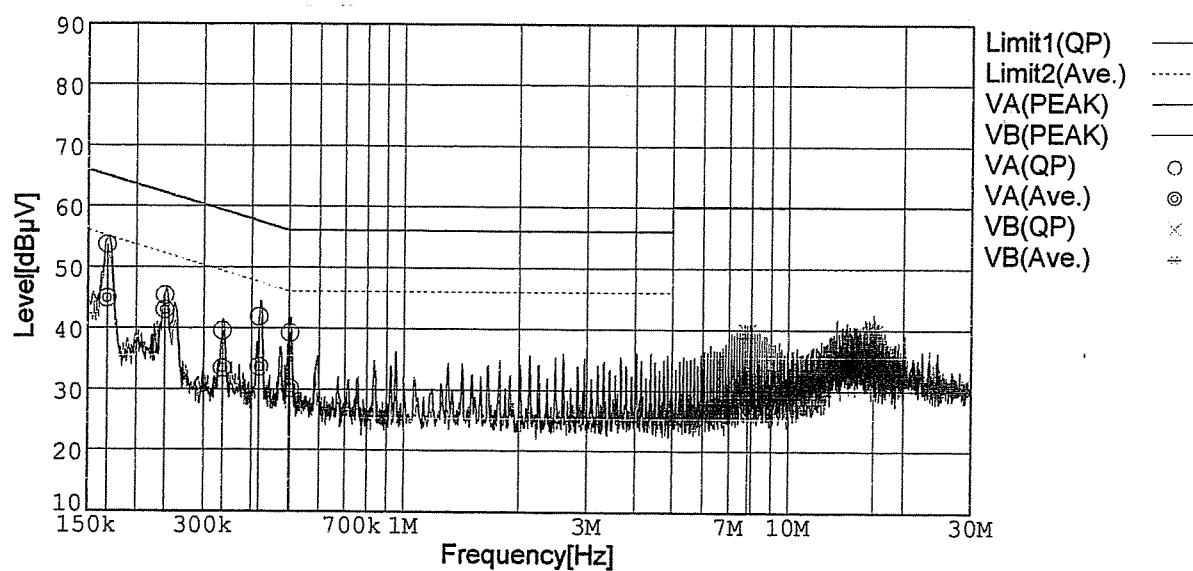
Remarks

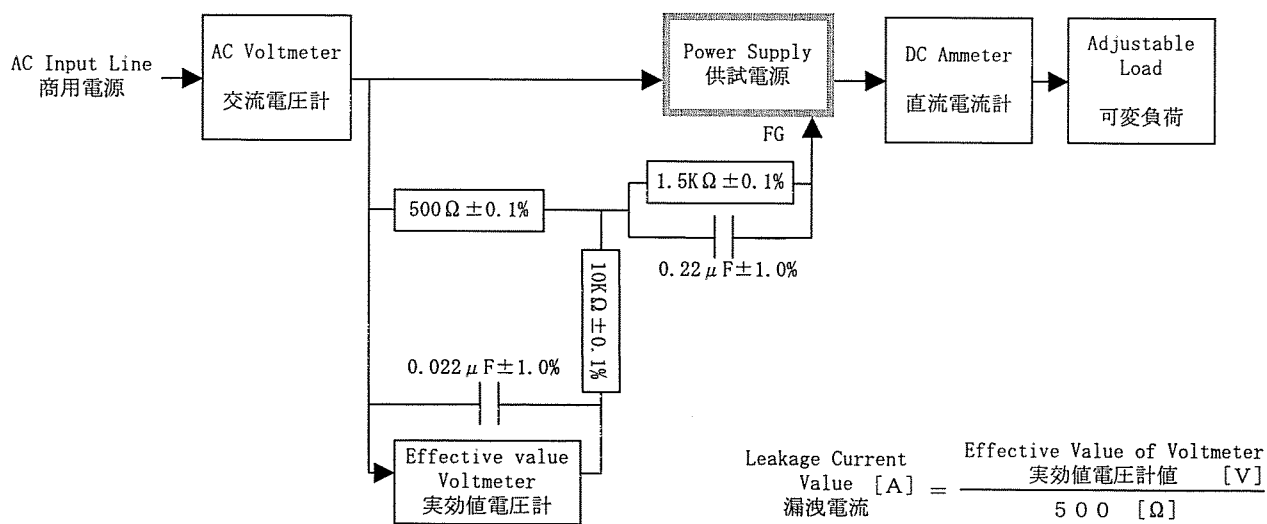
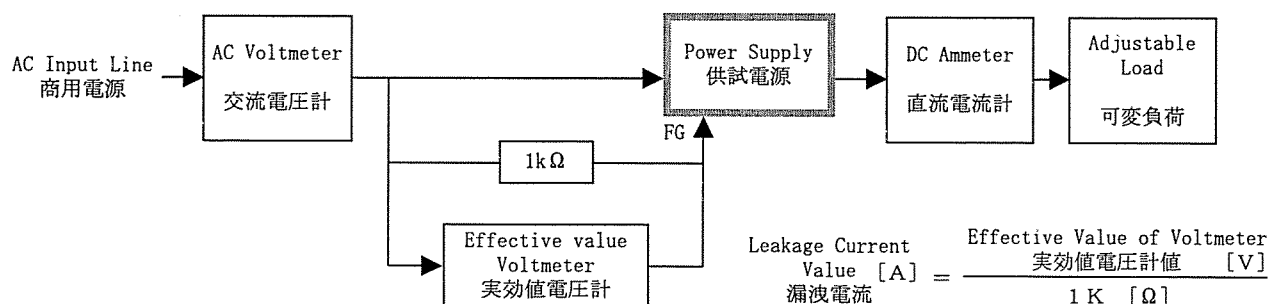
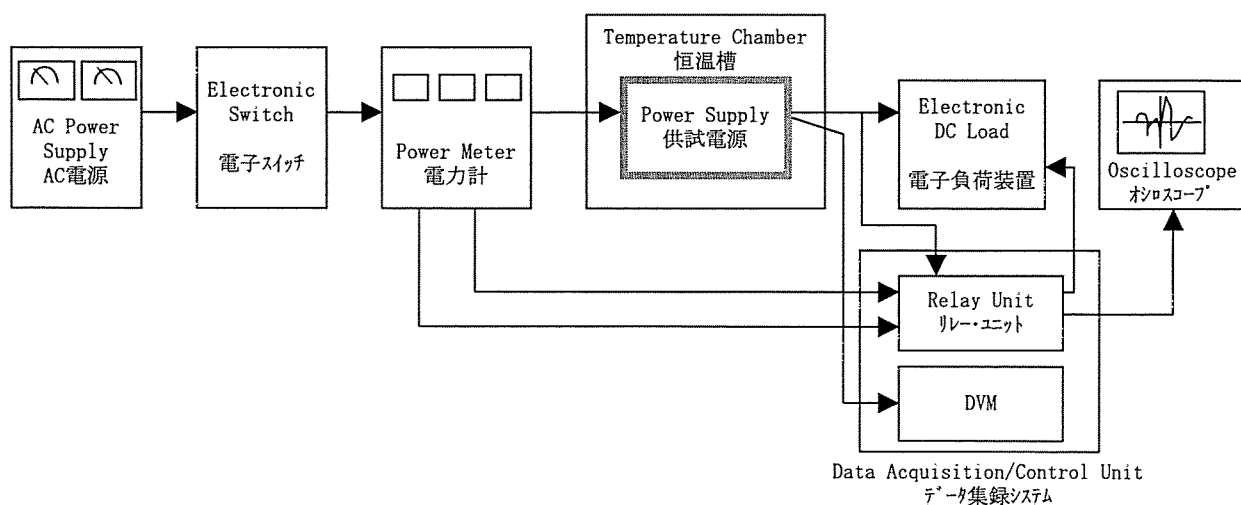
Input Volt. 230V (CISPR Pub22 Class B)

Load 100%

Limit1:[CISPR Pub22] Class B(QP)

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





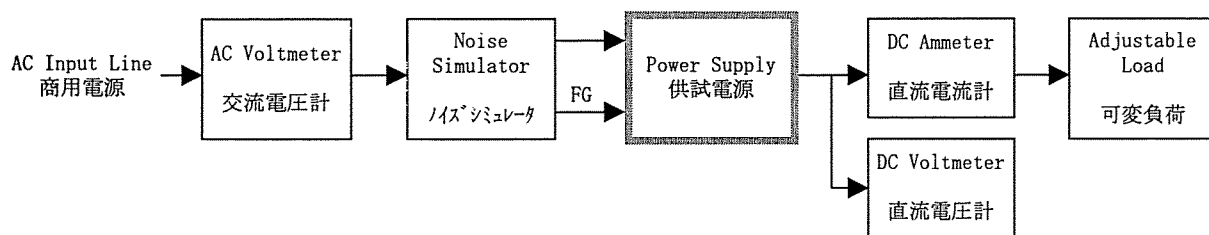


Figure C

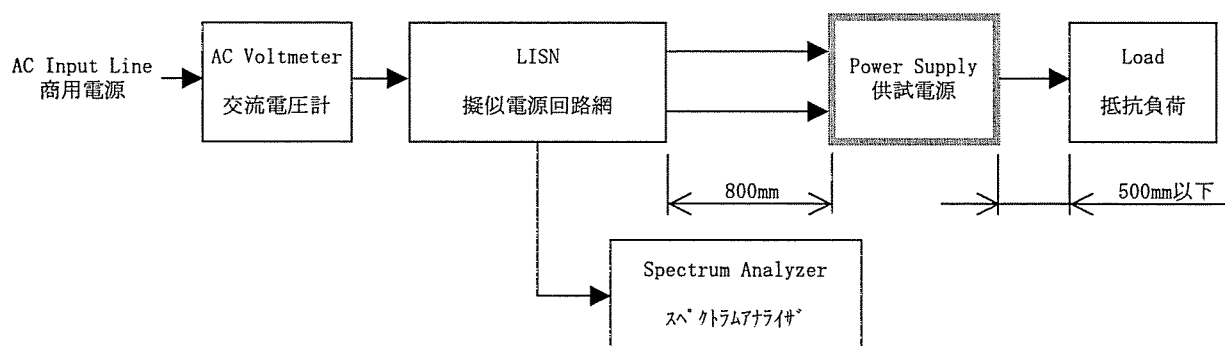


Figure D

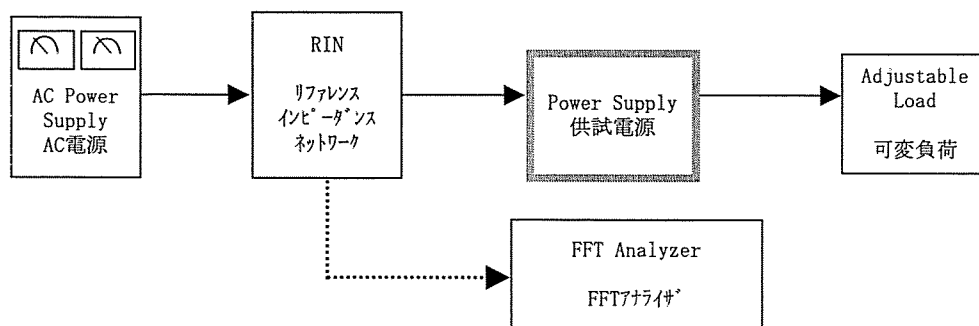


Figure E