



# TEST DATA OF LEB100F-0524

(100V INPUT)

Regulated DC Power Supply

Mar. 16, 2000

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Design Manager

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Design Engineer

**コーセル株式会社**  
**COSEL CO., LTD.**

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Model		LEB100F-0524		Temperature		25℃																																	
Item		Line Regulation 静的入力変動		Testing Circuitry		Figure A																																	
Object		V1: +5.0V5A																																					
1. Graph				2. Values																																			
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>Output Voltage</div><div>[V]</div><div><div><div>5.100</div><div>5.080</div><div>5.060</div><div>5.040</div><div>5.020</div><div>5.000</div><div>4.980</div><div>4.960</div></div><div><div>70</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div><div>Input Voltage</div><div>[V]</div></div></div>				<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>5.047</td><td>5.036</td></tr><tr><td>80</td><td>5.047</td><td>5.037</td></tr><tr><td>85</td><td>5.047</td><td>5.037</td></tr><tr><td>90</td><td>5.047</td><td>5.037</td></tr><tr><td>100</td><td>5.047</td><td>5.037</td></tr><tr><td>110</td><td>5.047</td><td>5.037</td></tr><tr><td>120</td><td>5.047</td><td>5.037</td></tr><tr><td>132</td><td>5.047</td><td>5.037</td></tr><tr><td>140</td><td>5.047</td><td>5.037</td></tr></table>				Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	5.047	5.036	80	5.047	5.037	85	5.047	5.037	90	5.047	5.037	100	5.047	5.037	110	5.047	5.037	120	5.047	5.037	132	5.047	5.037	140	5.047	5.037
Input Voltage [V]	Output Voltage [V]																																						
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132	5.047	5.037																																					
140	5.047	5.037																																					
Object		V2: +24.0V4A																																					
1. Graph				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。																																							

# COSEL

Model		LEB100F-0524	
Item		Input Current (by Load Power) 入力電流 (負荷特性)	
Output		_____	

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Input Current [A]

2

1.5

1

0.5

0

0

20

40

60

80

100

120

Load Power [W]

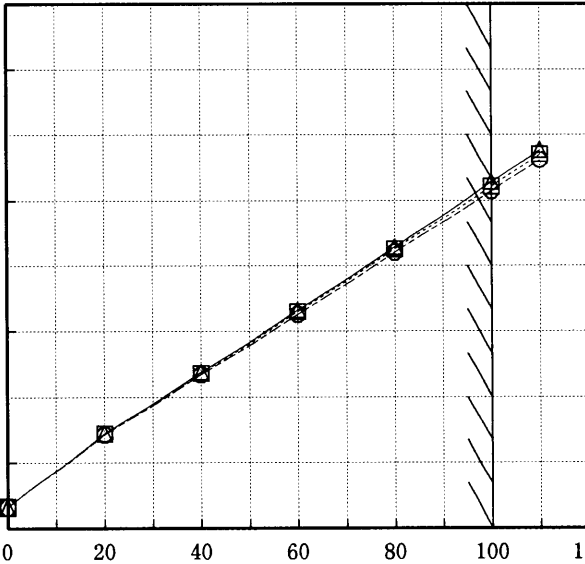
Note: Slanted line shows the range of the rated load power.

(注)斜線は定格出力電力範囲を示す。

2. Values

Load Power [W]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.112	0.098	0.083
20	0.446	0.383	0.299
40	0.719	0.613	0.472
60	0.994	0.844	0.643
80	1.274	1.079	0.820
100	1.560	1.318	0.996
110	1.706	1.442	1.087
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

# COSEL

Model		LEB100F-0524		Temperature		25℃																																																								
Item		Input Power (by Load Power) 入力電力（負荷特性）		Testing Circuitry		Figure A																																																								
Output		_____																																																												
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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> <div><div><div><div>Input Power [W]</div><div>200</div><div>150</div><div>100</div><div>50</div><div>0</div></div><div><div>0</div><div>20</div><div>40</div><div>60</div><div>80</div><div>100</div><div>120</div></div><div><div>Load Power [W]</div></div></div></div> <div>Note: Slanted line shows the range of the rated load power.</div> <div>(注)斜線は定格出力電力範囲を示す。</div>				<table><tr><th rowspan="2">Load Power [W]</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</td><td>7.74</td><td>7.67</td><td>7.75</td></tr><tr><td>20</td><td>35.80</td><td>35.70</td><td>35.42</td></tr><tr><td>40</td><td>59.20</td><td>58.90</td><td>58.30</td></tr><tr><td>60</td><td>82.90</td><td>82.30</td><td>81.30</td></tr><tr><td>80</td><td>106.90</td><td>106.10</td><td>104.90</td></tr><tr><td>100</td><td>131.90</td><td>130.20</td><td>128.60</td></tr><tr><td>110</td><td>144.30</td><td>142.80</td><td>140.50</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Power [W]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	7.74	7.67	7.75	20	35.80	35.70	35.42	40	59.20	58.90	58.30	60	82.90	82.30	81.30	80	106.90	106.10	104.90	100	131.90	130.20	128.60	110	144.30	142.80	140.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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# COSEL

Model

LEB100F-0524

Item

Efficiency (by Input Voltage)  
効率 (入力電圧特性)

Object

1. Graph

□

Load 50%

△

Load 100%

Efficiency [%]

86

82

78

74

70

66

62

58

70

80

90

100

110

120

130

140

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。

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	70.8	75.7
80	71.0	76.3
85	71.2	76.7
90	71.4	77.1
100	71.6	77.8
110	71.8	78.1
120	72.1	78.4
132	72.2	78.6
140	72.3	78.7

# COSEL

Model		LEB100F-0524		Temperature		25℃																																																								
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<div><div>—△— Input Volt. 85V - - -□- - - Input Volt. 100V ·····○····· Input Volt. 132V</div><p>Efficiency [%]</p><p>Load Power [W]</p></div> <p>Note: Slanted line shows the range of the rated load power.</p> <p>(注) 斜線は定格出力電力範囲を示す。</p>				<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>20</td><td>56.5</td><td>56.5</td><td>56.9</td></tr><tr><td>40</td><td>68.2</td><td>68.5</td><td>69.4</td></tr><tr><td>60</td><td>73.2</td><td>73.7</td><td>74.7</td></tr><tr><td>80</td><td>75.7</td><td>76.2</td><td>77.1</td></tr><tr><td>100</td><td>76.7</td><td>77.8</td><td>78.6</td></tr><tr><td>110</td><td>77.0</td><td>78.0</td><td>79.1</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Power [W]	Efficiency [%]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	20	56.5	56.5	56.9	40	68.2	68.5	69.4	60	73.2	73.7	74.7	80	75.7	76.2	77.1	100	76.7	77.8	78.6	110	77.0	78.0	79.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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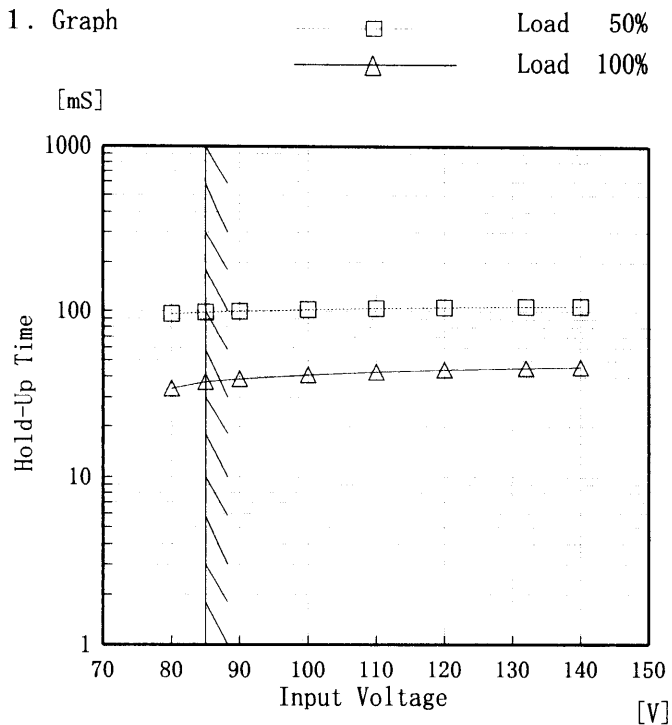
Model LEB100F-0524

Item Hold-Up Time  
出力保持時間

Object V1: +5.0V5A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注)斜線は定格入力電圧範囲を示す。

## 2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	—	—
80	96	34
85	98	37
90	100	39
100	102	41
110	104	43
120	105	44
132	107	45
140	107	46

# COSEL

Model		LEB100F-0524		Temperature		25℃	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A	
Object		V2: +24.0V 4A					
1. Graph				2. Values			

-----□-----

Load 50%

-----△-----

Load 100%

Hold-Up Time

[mS]

1000

100

10

1

70

80

90

100

110

120

130

140

150

Input Voltage

[V]

Input Voltage [V]	Load 50% [mS]	Load 100% [mS]
80	35	19
85	38	20
90	39	21
100	41	24
110	43	25
120	44	27
132	45	28
140	46	28

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格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。

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	—	—
80	35	19
85	38	20
90	39	21
100	41	24
110	43	25
120	44	27
132	45	28
140	46	28

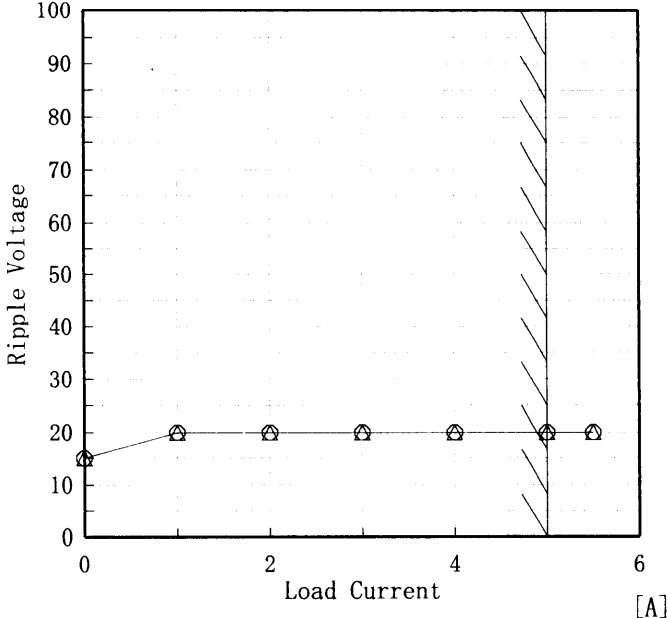
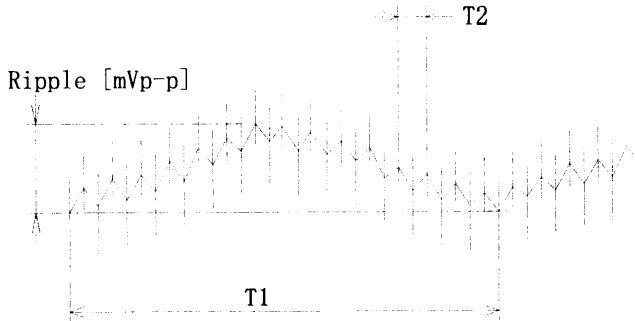
BC-3266

# COSEL

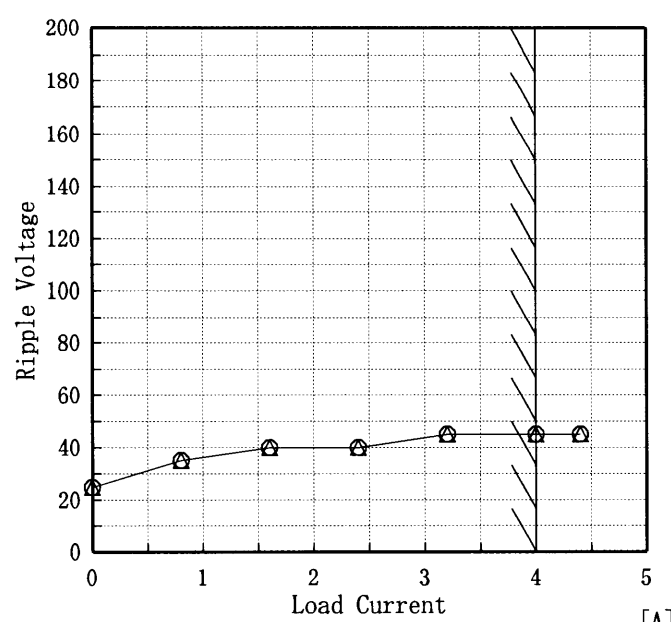
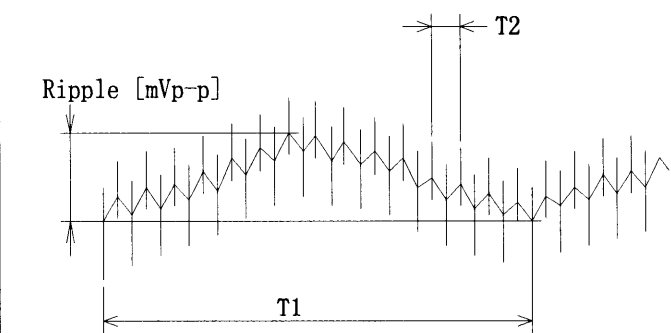
Model		LEB100F-0524		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		V2: +24.0V4A																																																								
1. Graph				2. Values																																																						
<div><div><div>△</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>Input Volt. 132 V</div></div></div> <div><div>[mS]</div><div>Instantaneous Compensation Time</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>Load Current</div><div>[A]</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>56</td><td>64</td><td>73</td></tr><tr><td>1.6</td><td>42</td><td>47</td><td>55</td></tr><tr><td>2.4</td><td>31</td><td>37</td><td>42</td></tr><tr><td>3.2</td><td>22</td><td>28</td><td>32</td></tr><tr><td>4.0</td><td>16</td><td>21</td><td>26</td></tr><tr><td>4.4</td><td>14</td><td>19</td><td>23</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</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	56	64	73	1.6	42	47	55	2.4	31	37	42	3.2	22	28	32	4.0	16	21	26	4.4	14	19	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Time [mS]																																																									
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
0.0	—	—	—																																																							
0.8	56	64	73																																																							
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4.0	16	21	26																																																							
4.4	14	19	23																																																							
—	—	—	—																																																							
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—	—	—	—																																																							
—	—	—	—																																																							
<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note:Slanted line shows the range of the rated load current.</p> <p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																										

BC-3266

# COSEL

Model	LEB100F-0524																																								
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Temperature	25℃																																						
		Testing Circuitry	Figure A																																						
Object	V1: +5.0V5A																																								
1. Graph		2.Values																																							
<div><div>——△—— Input Volt. 85V</div><div>-----○----- Input Volt. 132V</div><div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Output Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.0</td><td>15</td><td>15</td></tr><tr><td>1.0</td><td>20</td><td>20</td></tr><tr><td>2.0</td><td>20</td><td>20</td></tr><tr><td>3.0</td><td>20</td><td>20</td></tr><tr><td>4.0</td><td>20</td><td>20</td></tr><tr><td>5.0</td><td>20</td><td>20</td></tr><tr><td>5.5</td><td>20</td><td>20</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><tr><td>—</td><td>—</td><td>—</td></tr></table>		Load Current [A]	Ripple Output Voltage [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	15	15	1.0	20	20	2.0	20	20	3.0	20	20	4.0	20	20	5.0	20	20	5.5	20	20	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple Output Voltage [mV]																																								
	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
0.0	15	15																																							
1.0	20	20																																							
2.0	20	20																																							
3.0	20	20																																							
4.0	20	20																																							
5.0	20	20																																							
5.5	20	20																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							
<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><p>Fig. Complex Ripple Wave Form</p><p>図 リップル波形詳細図</p></div>																																									

# COSEL

Model		LEB100F-0524		Temperature 25℃	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)		Testing Circuitry Figure A	
Object		V2: +24.0V 4A			
1. Graph					
[mV]		—△— Input Volt. 85V		2. Values	
		- - -○- - - Input Volt. 132V			
					
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					
					
Fig. Complex Ripple Wave Form					
図 リップル波形詳細図					



# COSEL

Model		LEB100F-0524		Temperature		25℃																																					
Item		Ripple-Noise   リップルノイズ		Testing Circuitry		Figure A																																					
Object		V1: +5.0V5A																																									
1. Graph				2. Values																																							
<div><div>△ Input Volt. 85V</div><div>○ Input Volt. 132V</div><table border="1"><caption>Ripple-Noise Data</caption><thead><tr><th>Load Current [A]</th><th>Input Volt. 85 [V] [mV]</th><th>Input Volt. 132 [V] [mV]</th></tr></thead><tbody><tr><td>0.0</td><td>40</td><td>40</td></tr><tr><td>1.0</td><td>50</td><td>50</td></tr><tr><td>2.0</td><td>50</td><td>50</td></tr><tr><td>3.0</td><td>50</td><td>50</td></tr><tr><td>4.0</td><td>60</td><td>60</td></tr><tr><td>5.0</td><td>65</td><td>65</td></tr><tr><td>5.5</td><td>65</td><td>65</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><tr><td>—</td><td>—</td><td>—</td></tr></tbody></table></div>				Load Current [A]	Input Volt. 85 [V] [mV]	Input Volt. 132 [V] [mV]	0.0	40	40	1.0	50	50	2.0	50	50	3.0	50	50	4.0	60	60	5.0	65	65	5.5	65	65	—	—	—	—	—	—	—	—	—	—	—	—				
Load Current [A]	Input Volt. 85 [V] [mV]	Input Volt. 132 [V] [mV]																																									
0.0	40	40																																									
1.0	50	50																																									
2.0	50	50																																									
3.0	50	50																																									
4.0	60	60																																									
5.0	65	65																																									
5.5	65	65																																									
—	—	—																																									
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<p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップルノイズは、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>																																											
<p>Fig. Complex Ripple Wave Form</p> <p>図   リップル波形詳細図</p>																																											

BC-3266

**COSEL**

Model		LEB100F-0524	
Item		Overcurrent Protection 過電流保護	
Object		V1: +5.0V5A	
1. Graph		Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V	
[V]			
8.0			
6.0			
4.0			
2.0			
0.0			
0		8 [A]	
2			
4			
6			
8			
Output Voltage			
Note: Slanted line shows the range of the rated load current.			

Temperature		25℃		
Testing Circuitry		Figure A		
2. Values				
Output Voltage [V]		Load Current [A]		
		Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
5.00		6.77	6.90	7.04
4.75		6.66	6.79	6.91
4.50		6.50	6.62	6.74
4.00		6.25	6.34	6.44
3.50		5.93	6.02	6.10
3.00		5.62	5.70	5.77
2.50		5.27	5.33	5.40
2.00		4.89	4.94	5.00
1.50		4.50	4.55	4.59
1.00		4.01	4.05	4.10
0.50		3.53	3.57	3.62
0.00		4.64	4.72	4.82

Object		V2: +24.0V4A	
1. Graph		Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V	
[V]			
40.0			
30.0			
20.0			
10.0			
0.0			
0		10 [A]	
2			
4			
6			
8			
10			
Output Voltage			
Note: Slanted line shows the range of the rated load current.			
Intermittent operation occurs when the output voltage is from 16.8V to 0V.			

2. Values				
Output Voltage [V]		Load Current [A]		
		Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
24.00		8.50	8.51	8.51
22.80		8.52	8.53	8.54
21.60		8.55	8.57	8.57
19.20		8.61	8.60	8.58
16.80		8.67	8.67	8.67
14.40		—	—	—
12.00		—	—	—
9.60		—	—	—
7.20		—	—	—
4.80		—	—	—
2.40		—	—	—
0.00		—	—	—

# COSEL

Model		LEB100F-0524	
Item		Overvoltage Protection 過電圧保護	
Object		V2: +24.0V4A	

1. Graph

—△—

Input Volt. 85 V

---□---

Input Volt. 100 V

---○---

Input Volt. 132 V

Operating Point [V]

34.0

33.0

32.0

31.0

30.0

29.0

28.0

27.0

—30

10

50

90

Ambient Temperature [°C]

Load 0%

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

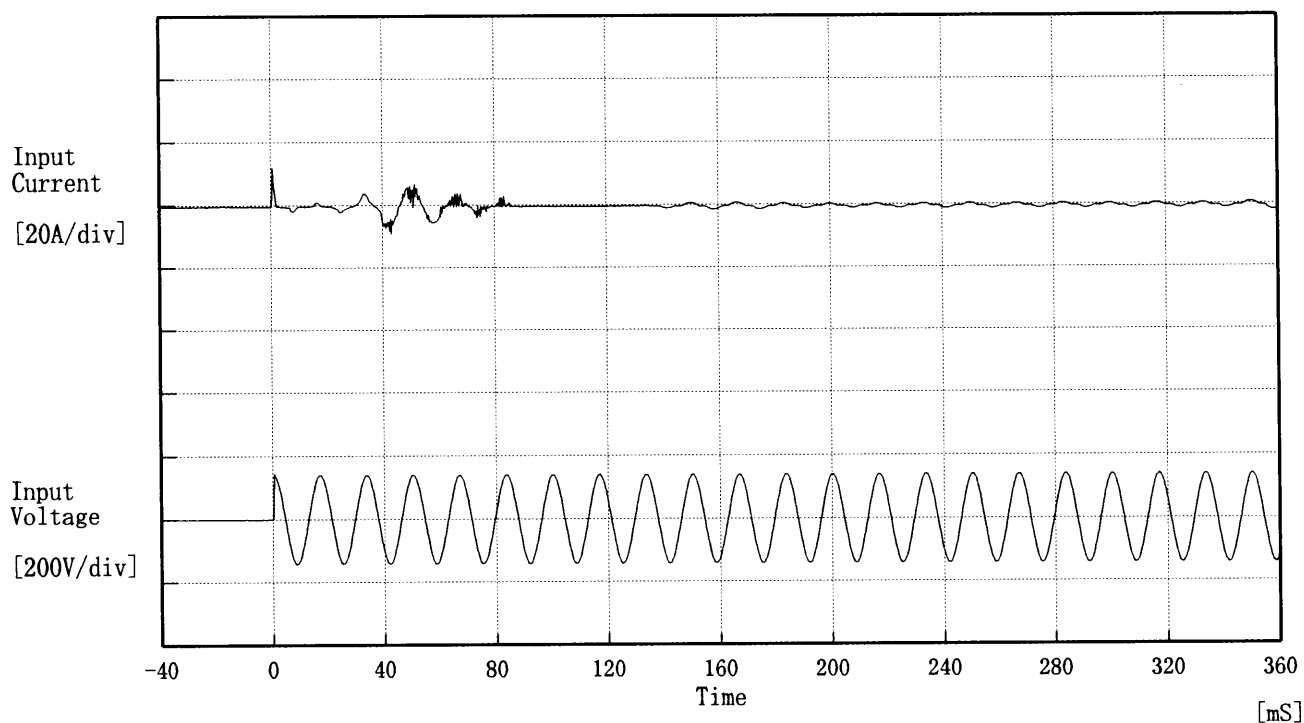
(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	29.7	29.7	29.7
-10	29.9	29.9	29.9
0	30.1	30.1	30.1
10	30.3	30.3	30.3
20	30.5	30.5	30.5
25	30.6	30.6	30.6
30	30.7	30.7	30.7
40	30.9	30.9	30.9
50	31.2	31.2	31.2
70	31.6	31.6	31.6
—	—	—	—

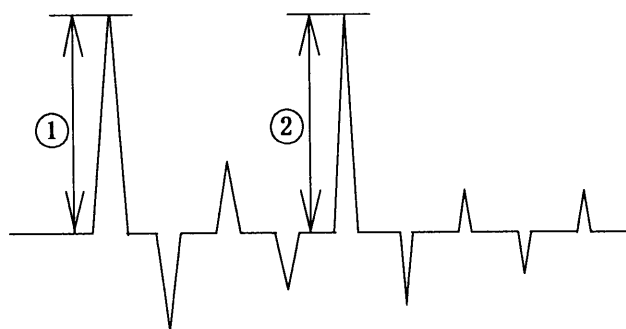
**COSEL**

Model	LEB100F-0524	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 11.62 [A]  
② 9.28 [A]



# COSEL

Model	LEB100F-0524	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	V1: +5.0V5A	

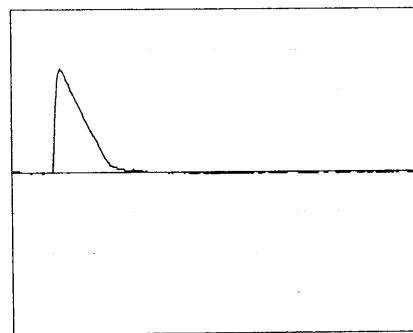
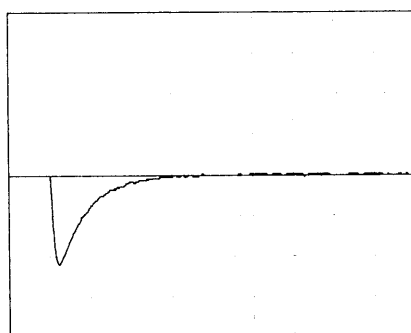
Input Volt. 100 V

Cycle 1000 mS

Load Current

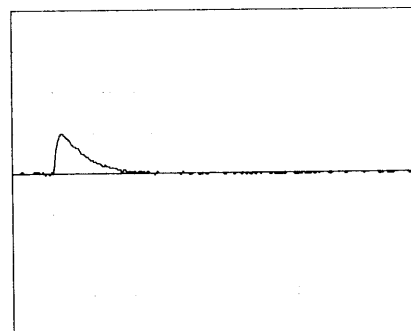
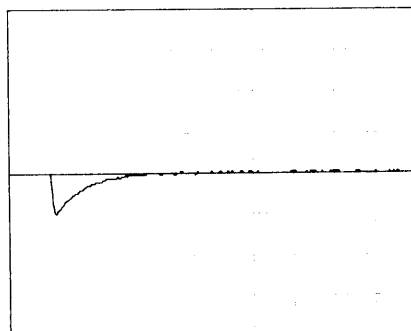
Min. Load ↔

Load 100 %



Min. Load ↔

Load 50 %



100 mV/div

10 ms/div

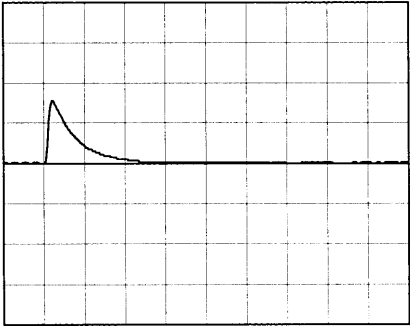
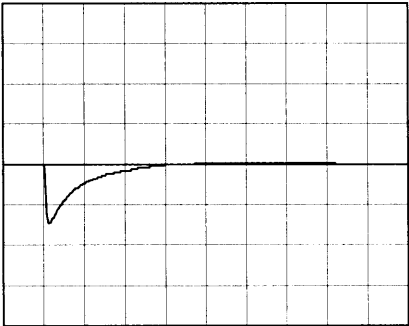


Model		LEB100F-0524	Temperature 25°C Testing Circuitry Figure A	
Item		Dynamic Load Responce 動的負荷変動		
Object		V2: +24.0V4A		

Input Volt. 100 V  
Cycle 1000 mS

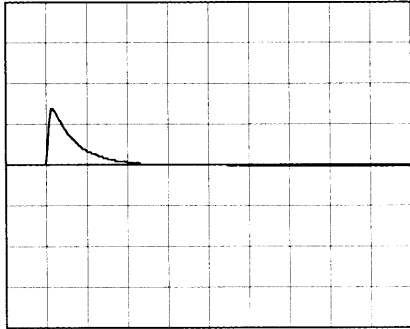
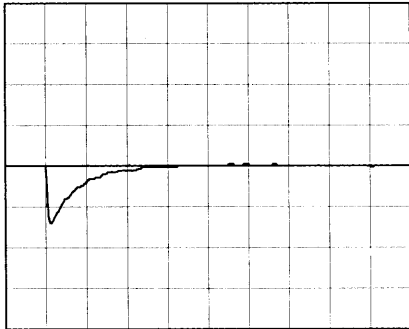


Min. Load ↔  
Load 100 %

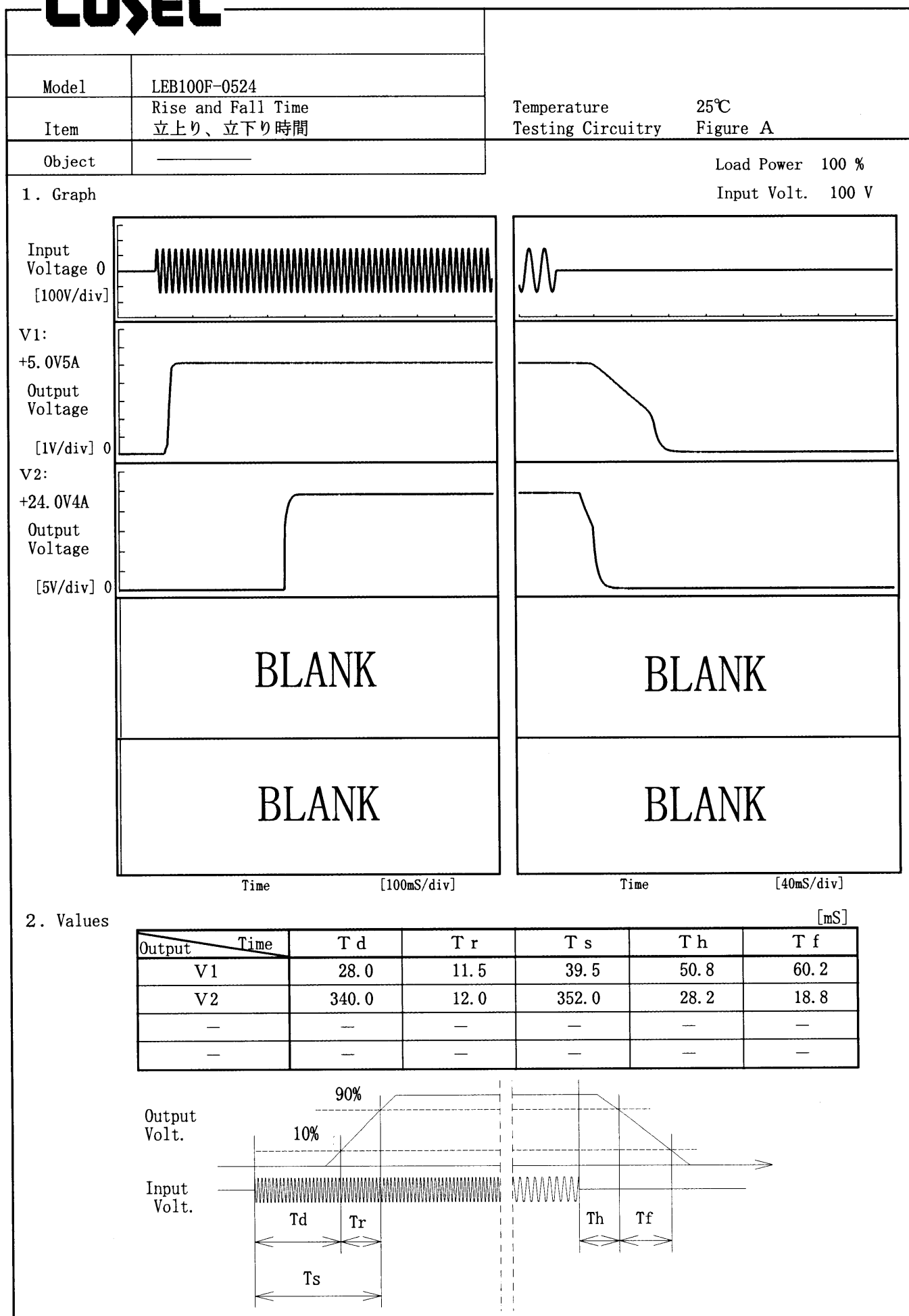


Min. Load ↔  
Load 50 %

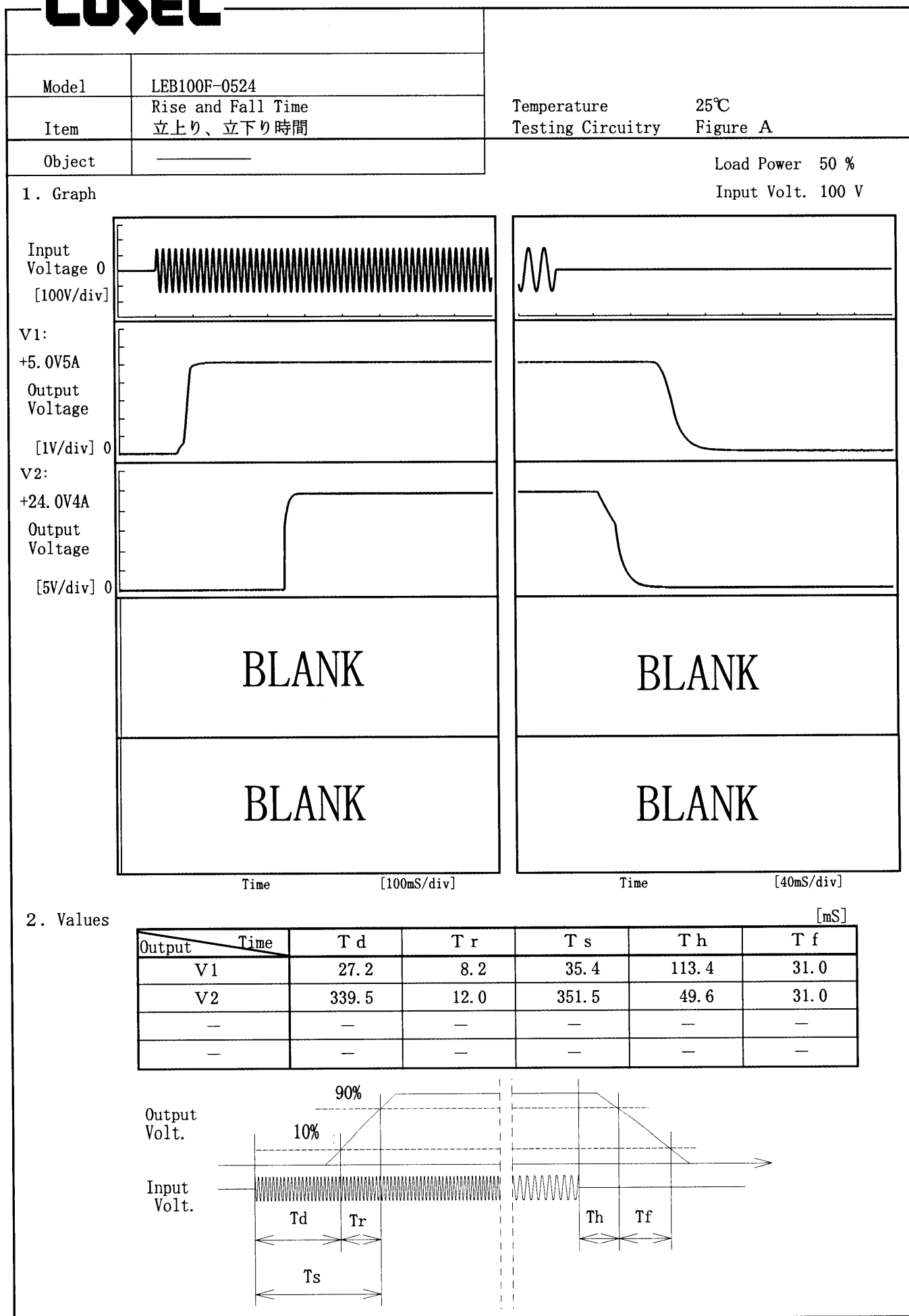
100 mV/div



10 ms/div

**COSEL**



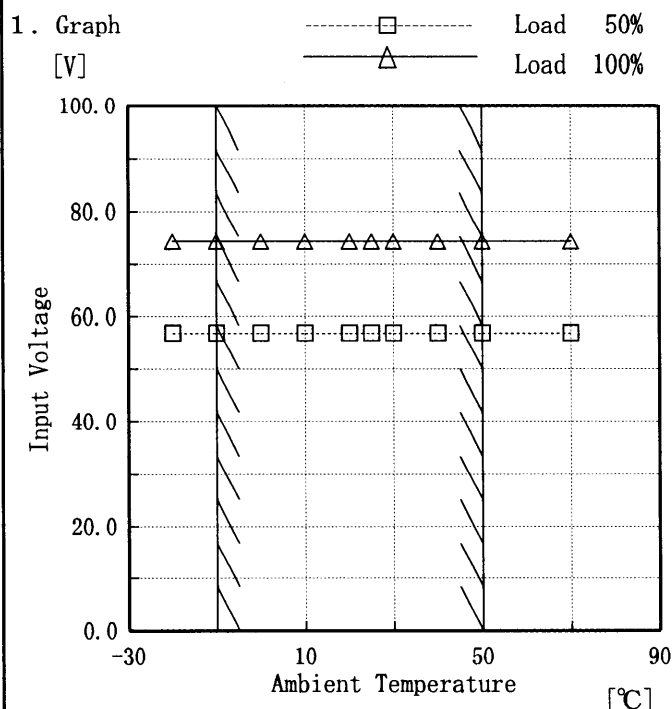
**COSEL**

# COSEL

Model		LEB100F-0524																																																				
Item		Ambient Temperature Drift 周囲温度変動																																																				
Object		V1: +5.0V5A																																																				
1. Graph		2. Values																																																				
<div><div>—△— Input Volt. 85V</div><div>---□--- Input Volt. 100V</div><div>---○--- Input Volt. 132V</div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>5.024</td><td>5.024</td><td>5.024</td></tr><tr><td>-10</td><td>5.027</td><td>5.027</td><td>5.027</td></tr><tr><td>0</td><td>5.029</td><td>5.029</td><td>5.029</td></tr><tr><td>10</td><td>5.031</td><td>5.031</td><td>5.032</td></tr><tr><td>20</td><td>5.034</td><td>5.034</td><td>5.034</td></tr><tr><td>25</td><td>5.036</td><td>5.036</td><td>5.036</td></tr><tr><td>30</td><td>5.037</td><td>5.038</td><td>5.038</td></tr><tr><td>40</td><td>5.038</td><td>5.038</td><td>5.038</td></tr><tr><td>50</td><td>5.037</td><td>5.038</td><td>5.038</td></tr><tr><td>70</td><td>5.034</td><td>5.034</td><td>5.034</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	5.024	5.024	5.024	-10	5.027	5.027	5.027	0	5.029	5.029	5.029	10	5.031	5.031	5.032	20	5.034	5.034	5.034	25	5.036	5.036	5.036	30	5.037	5.038	5.038	40	5.038	5.038	5.038	50	5.037	5.038	5.038	70	5.034	5.034	5.034	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
-20	5.024	5.024	5.024																																																			
-10	5.027	5.027	5.027																																																			
0	5.029	5.029	5.029																																																			
10	5.031	5.031	5.032																																																			
20	5.034	5.034	5.034																																																			
25	5.036	5.036	5.036																																																			
30	5.037	5.038	5.038																																																			
40	5.038	5.038	5.038																																																			
50	5.037	5.038	5.038																																																			
70	5.034	5.034	5.034																																																			
—	—	—	—																																																			
Object		V2: +24.0V4A																																																				
1. Graph		2. Values																																																				
<div><div>—△— Input Volt. 85V</div><div>---□--- Input Volt. 100V</div><div>---○--- Input Volt. 132V</div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>24.071</td><td>24.071</td><td>24.072</td></tr><tr><td>-10</td><td>24.086</td><td>24.086</td><td>24.086</td></tr><tr><td>0</td><td>24.101</td><td>24.101</td><td>24.101</td></tr><tr><td>10</td><td>24.117</td><td>24.117</td><td>24.118</td></tr><tr><td>20</td><td>24.135</td><td>24.135</td><td>24.135</td></tr><tr><td>25</td><td>24.142</td><td>24.143</td><td>24.143</td></tr><tr><td>30</td><td>24.148</td><td>24.149</td><td>24.149</td></tr><tr><td>40</td><td>24.158</td><td>24.158</td><td>24.159</td></tr><tr><td>50</td><td>24.163</td><td>24.163</td><td>24.164</td></tr><tr><td>70</td><td>24.163</td><td>24.163</td><td>24.163</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	24.071	24.071	24.072	-10	24.086	24.086	24.086	0	24.101	24.101	24.101	10	24.117	24.117	24.118	20	24.135	24.135	24.135	25	24.142	24.143	24.143	30	24.148	24.149	24.149	40	24.158	24.158	24.159	50	24.163	24.163	24.164	70	24.163	24.163	24.163	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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25	24.142	24.143	24.143																																																			
30	24.148	24.149	24.149																																																			
40	24.158	24.158	24.159																																																			
50	24.163	24.163	24.164																																																			
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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	LEB100F-0524
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1: +5.0V5A

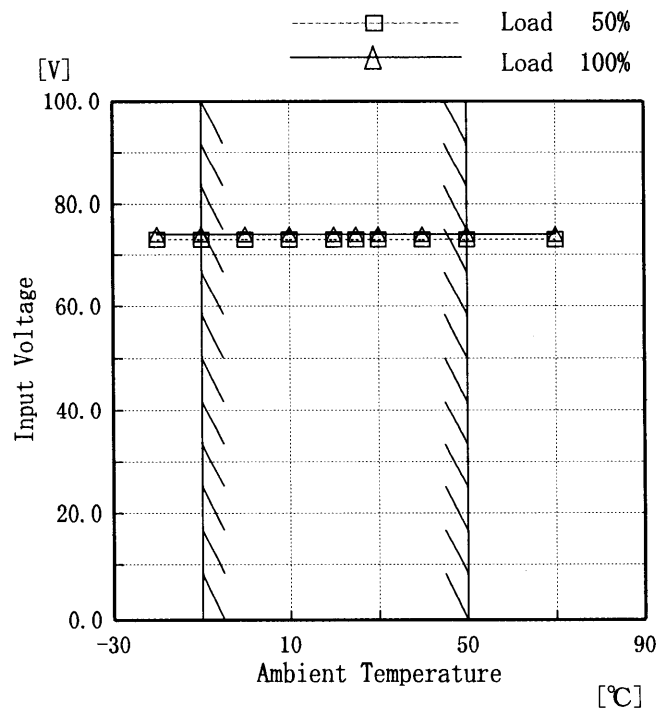


Testing Circuitry Figure A

## 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	57	74
-10	57	74
0	57	74
10	57	74
20	57	74
25	57	74
30	57	74
40	57	74
50	57	74
70	57	74
—	—	—

Object	V2: +24.0V4A
--------	--------------



## 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
70	73	74
—	—	—

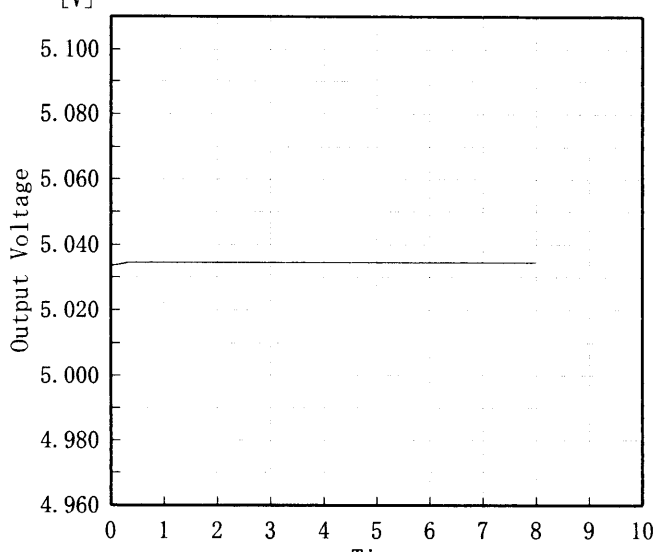
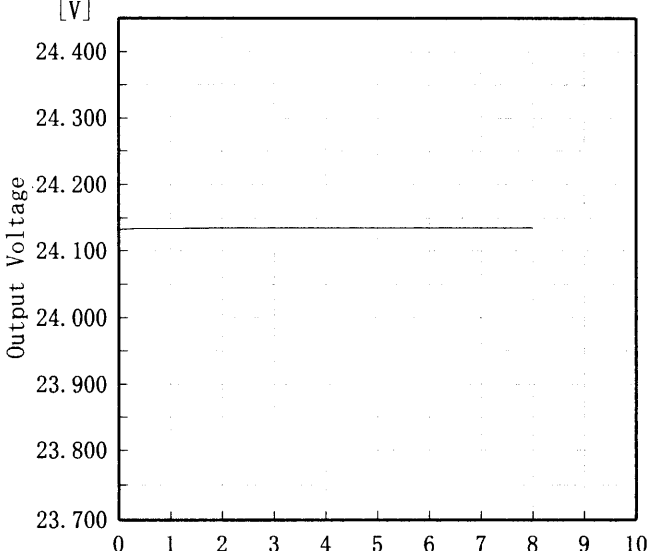
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

# COSEL

Model		LEB100F-0524		Testing Circuitry      Figure A																																							
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																									
Object		V1: +5.0V5A																																									
1. Graph		<div><div>□ Load 50%</div><div>△ Load 100%</div></div> <p>Input Volt. 100 V</p>		2. Values																																							
				<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Output Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>25</td><td>30</td></tr><tr><td>-10</td><td>25</td><td>30</td></tr><tr><td>0</td><td>20</td><td>20</td></tr><tr><td>10</td><td>20</td><td>20</td></tr><tr><td>20</td><td>20</td><td>20</td></tr><tr><td>25</td><td>20</td><td>20</td></tr><tr><td>30</td><td>15</td><td>15</td></tr><tr><td>40</td><td>15</td><td>15</td></tr><tr><td>50</td><td>15</td><td>15</td></tr><tr><td>70</td><td>15</td><td>15</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Ripple Output Voltage [mV]		Load 50%	Load 100%	-20	25	30	-10	25	30	0	20	20	10	20	20	20	20	20	25	20	20	30	15	15	40	15	15	50	15	15	70	15	15	—	—	—
Ambient Temperature [°C]	Ripple Output Voltage [mV]																																										
	Load 50%	Load 100%																																									
-20	25	30																																									
-10	25	30																																									
0	20	20																																									
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25	20	20																																									
30	15	15																																									
40	15	15																																									
50	15	15																																									
70	15	15																																									
—	—	—																																									
Object		V2: +24.0V4A																																									
1. Graph		<div><div>□ Load 50%</div><div>△ Load 100%</div></div> <p>Input Volt. 100 V</p>		2. Values																																							
				<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Output Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>90</td><td>110</td></tr><tr><td>-10</td><td>80</td><td>90</td></tr><tr><td>0</td><td>75</td><td>75</td></tr><tr><td>10</td><td>55</td><td>60</td></tr><tr><td>20</td><td>45</td><td>45</td></tr><tr><td>25</td><td>40</td><td>45</td></tr><tr><td>30</td><td>40</td><td>40</td></tr><tr><td>40</td><td>40</td><td>40</td></tr><tr><td>50</td><td>40</td><td>40</td></tr><tr><td>70</td><td>35</td><td>35</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Ripple Output Voltage [mV]		Load 50%	Load 100%	-20	90	110	-10	80	90	0	75	75	10	55	60	20	45	45	25	40	45	30	40	40	40	40	40	50	40	40	70	35	35	—	—	—
Ambient Temperature [°C]	Ripple Output Voltage [mV]																																										
	Load 50%	Load 100%																																									
-20	90	110																																									
-10	80	90																																									
0	75	75																																									
10	55	60																																									
20	45	45																																									
25	40	45																																									
30	40	40																																									
40	40	40																																									
50	40	40																																									
70	35	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

COSEL																									
Model	LEB100F-0524	Temperature 25℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	V1: +5.0V5A																								
1. Graph		2.Values																							
<div><div>[V]</div><div></div><div>Output Voltage [V]</div><div>Time [H]</div><div>Input Volt. 100V</div><div>Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.033</td></tr><tr><td>0.5</td><td>5.035</td></tr><tr><td>1.0</td><td>5.035</td></tr><tr><td>2.0</td><td>5.035</td></tr><tr><td>3.0</td><td>5.035</td></tr><tr><td>4.0</td><td>5.035</td></tr><tr><td>5.0</td><td>5.035</td></tr><tr><td>6.0</td><td>5.035</td></tr><tr><td>7.0</td><td>5.035</td></tr><tr><td>8.0</td><td>5.035</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.033	0.5	5.035	1.0	5.035	2.0	5.035	3.0	5.035	4.0	5.035	5.0	5.035	6.0	5.035	7.0	5.035	8.0	5.035
Time since start [H]	Output Voltage [V]																								
0.0	5.033																								
0.5	5.035																								
1.0	5.035																								
2.0	5.035																								
3.0	5.035																								
4.0	5.035																								
5.0	5.035																								
6.0	5.035																								
7.0	5.035																								
8.0	5.035																								
Object	V2: +24.0V4A																								
1. Graph		2.Values																							
<div><div>[V]</div><div></div><div>Output Voltage [V]</div><div>Time [H]</div><div>Input Volt. 100V</div><div>Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>24.130</td></tr><tr><td>0.5</td><td>24.134</td></tr><tr><td>1.0</td><td>24.134</td></tr><tr><td>2.0</td><td>24.135</td></tr><tr><td>3.0</td><td>24.135</td></tr><tr><td>4.0</td><td>24.135</td></tr><tr><td>5.0</td><td>24.135</td></tr><tr><td>6.0</td><td>24.135</td></tr><tr><td>7.0</td><td>24.135</td></tr><tr><td>8.0</td><td>24.135</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	24.130	0.5	24.134	1.0	24.134	2.0	24.135	3.0	24.135	4.0	24.135	5.0	24.135	6.0	24.135	7.0	24.135	8.0	24.135
Time since start [H]	Output Voltage [V]																								
0.0	24.130																								
0.5	24.134																								
1.0	24.134																								
2.0	24.135																								
3.0	24.135																								
4.0	24.135																								
5.0	24.135																								
6.0	24.135																								
7.0	24.135																								
8.0	24.135																								
		BC-3266																							

# COSEL

Model		LEB100F-0524				
Item		Output Voltage Accuracy 定電圧精度			Testing Circuitry Figure A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10~50 °C  
Input Voltage : 85~132 V  
Load Current (V1) : 0~5 A  
(V2) : 0~4 A

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

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

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 85~132 V  
負荷電流 (V1) 0~5 A  
(V2) 0~4 A

\* 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

Object	V1: +5.0V5A					
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Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	132	0	5.057	±15	±0.3
Minimum Voltage	-10	85	5	5.027		

Object	V2: +24.0V4A					
--------	--------------	--	--	--	--	--

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	85	0	24.171	±42	±0.2
Minimum Voltage	-10	85	4	24.088		

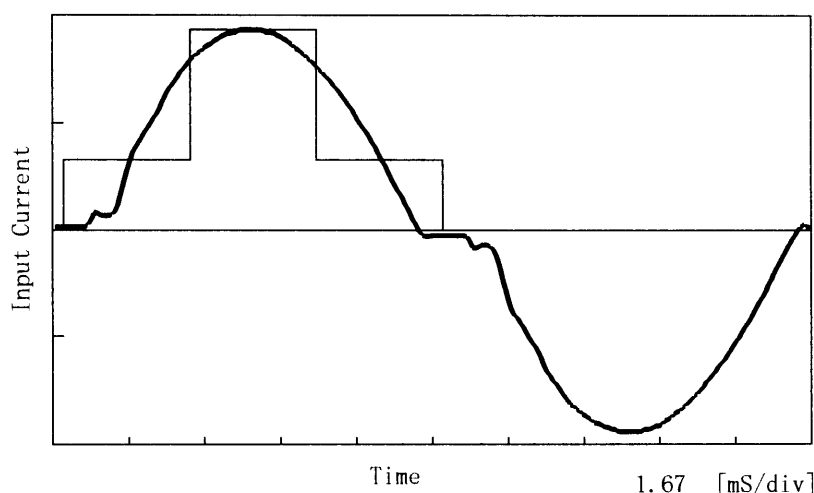
**COSEL**

Model	LEB100F-0524	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

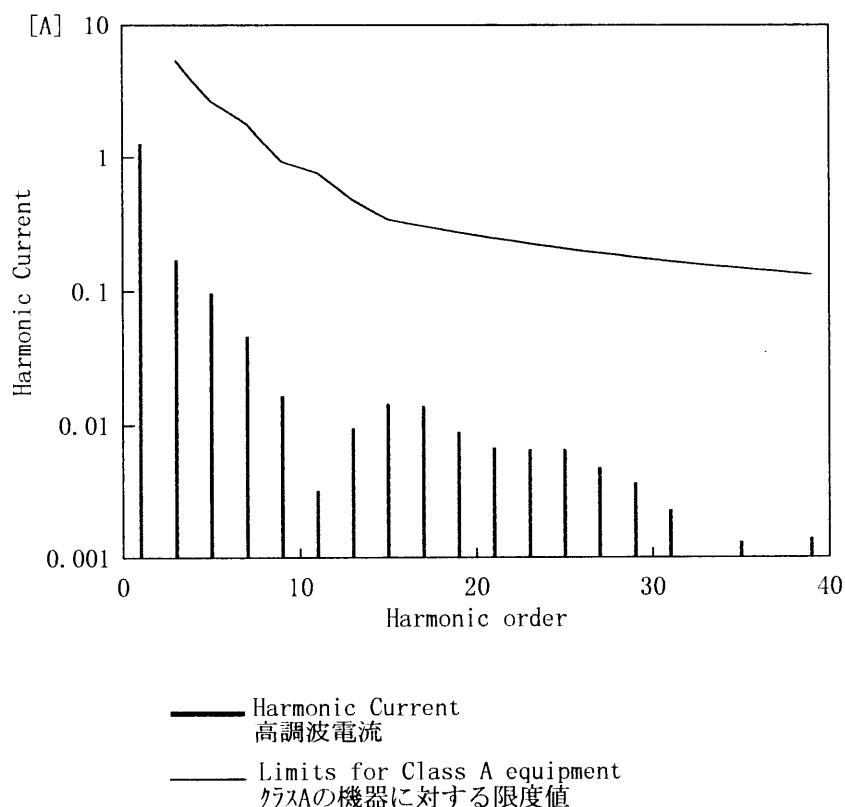
## 1. Input Current Waveform

— 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

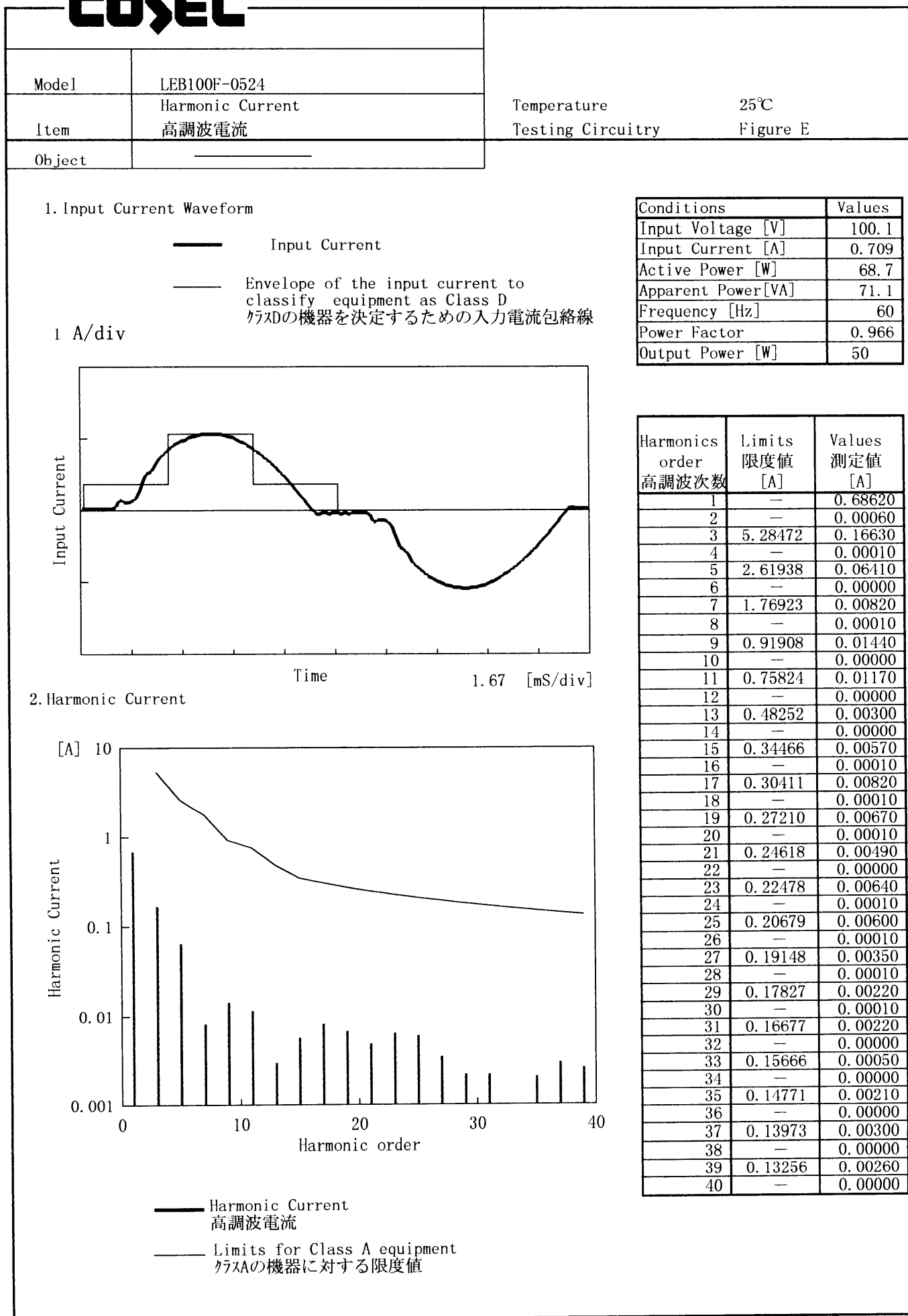


## 2. Harmonic Current



Conditions	Values
Input Voltage [V]	99.9
Input Current [A]	1.303
Active Power [W]	128.5
Apparent Power [VA]	130.1
Frequency [Hz]	60
Power Factor	0.988
Output Power [W]	100

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.28630
2	—	0.00060
3	5.29530	0.17300
4	—	0.00030
5	2.62462	0.09730
6	—	0.00010
7	1.77277	0.04660
8	—	0.00010
9	0.92092	0.01660
10	—	0.00010
11	0.75976	0.00320
12	—	0.00010
13	0.48348	0.00960
14	—	0.00010
15	0.34535	0.01450
16	—	0.00000
17	0.30472	0.01390
18	—	0.00000
19	0.27264	0.00890
20	—	0.00010
21	0.24668	0.00680
22	—	0.00010
23	0.22523	0.00660
24	—	0.00000
25	0.20721	0.00660
26	—	0.00010
27	0.19186	0.00480
28	—	0.00000
29	0.17863	0.00360
30	—	0.00000
31	0.16710	0.00230
32	—	0.00000
33	0.15698	0.00100
34	—	0.00010
35	0.14801	0.00130
36	—	0.00000
37	0.14000	0.00100
38	—	0.00000
39	0.13283	0.00140
40	—	0.00010

**COSEL**



BC-3266



**COSEL**

Model		LEB100F-0524		Temperature 25℃ Testing Circuitry Figure B
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) DENTORI	0.17	0.19	0.25
(B) IEC60950	0.17	0.20	0.25

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

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 of 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	LEB100F-0524	Temperature	25℃
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

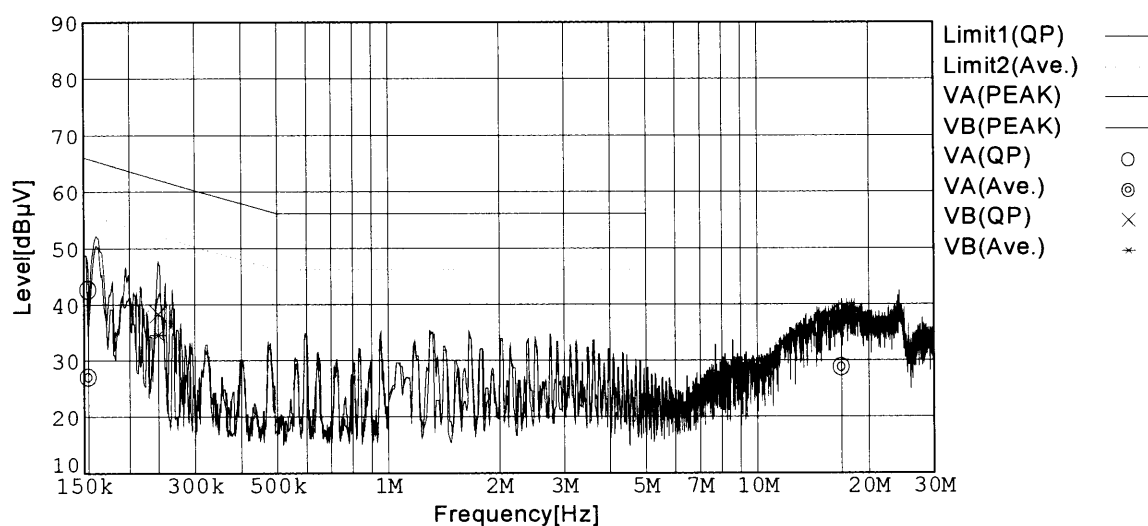
## 1. Graph

### Remarks

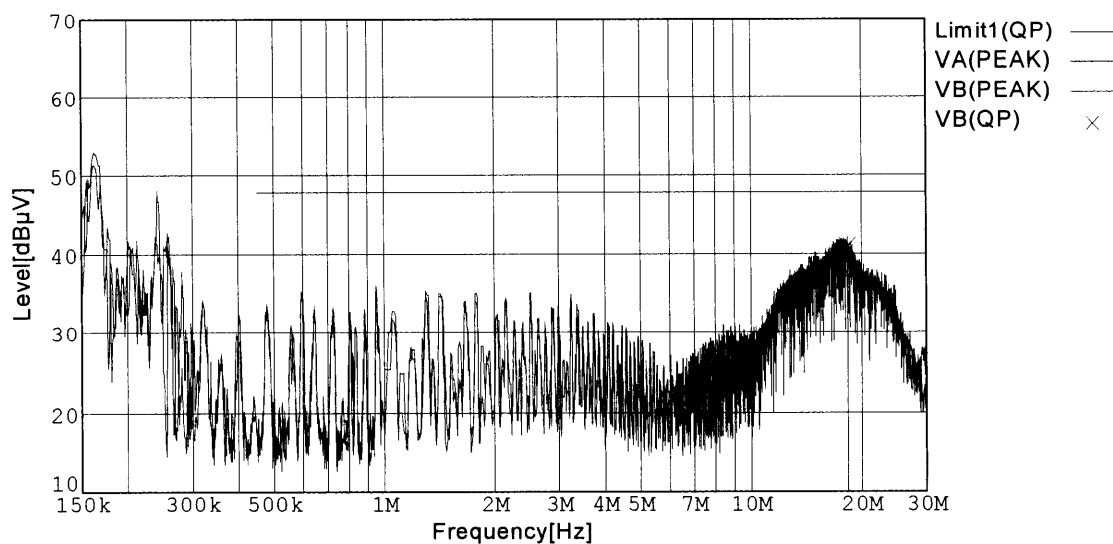
Input Volt.      100 V (VCCI Class B)  
                       120 V (FCC Class B)  
 Load              100 %

Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B



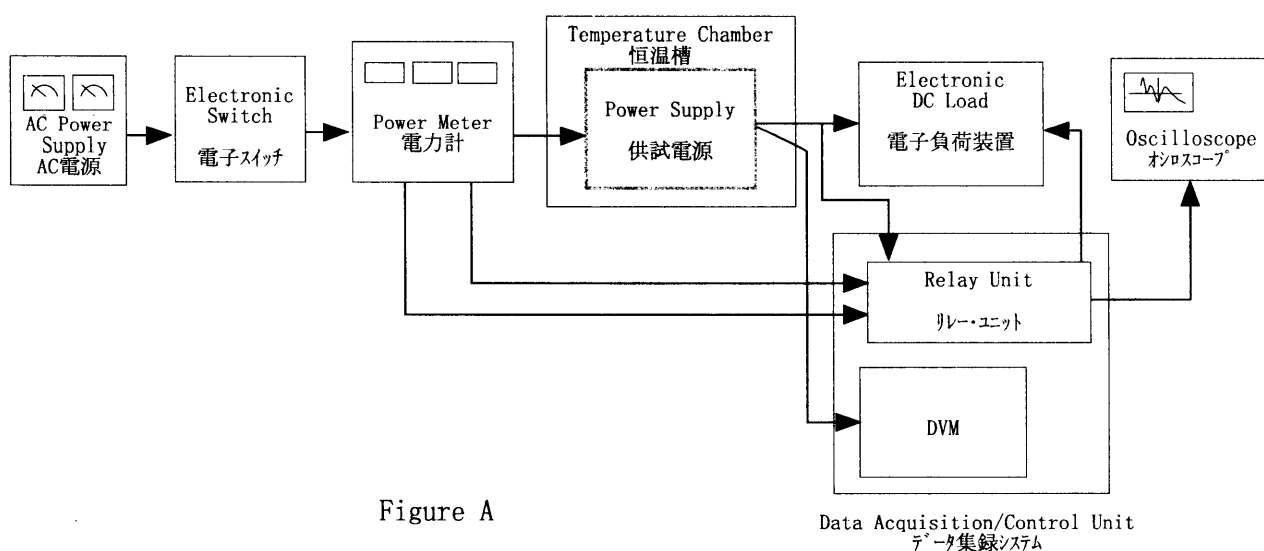


Figure A

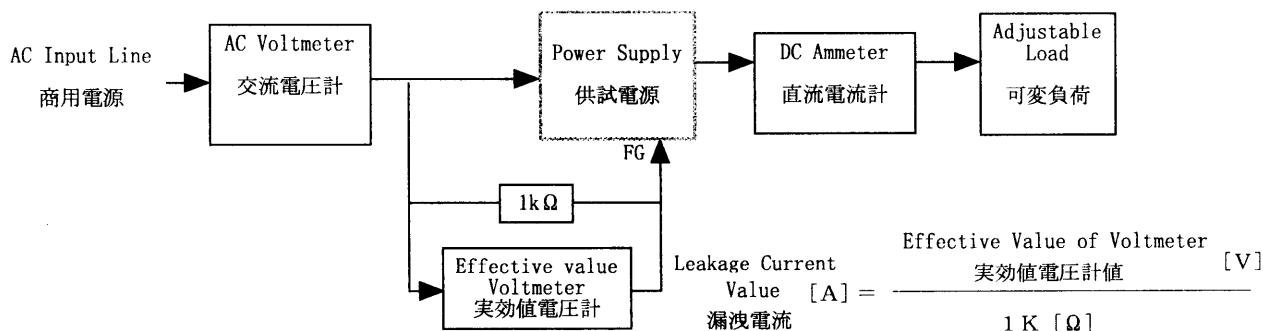


Figure B (DENTORI)

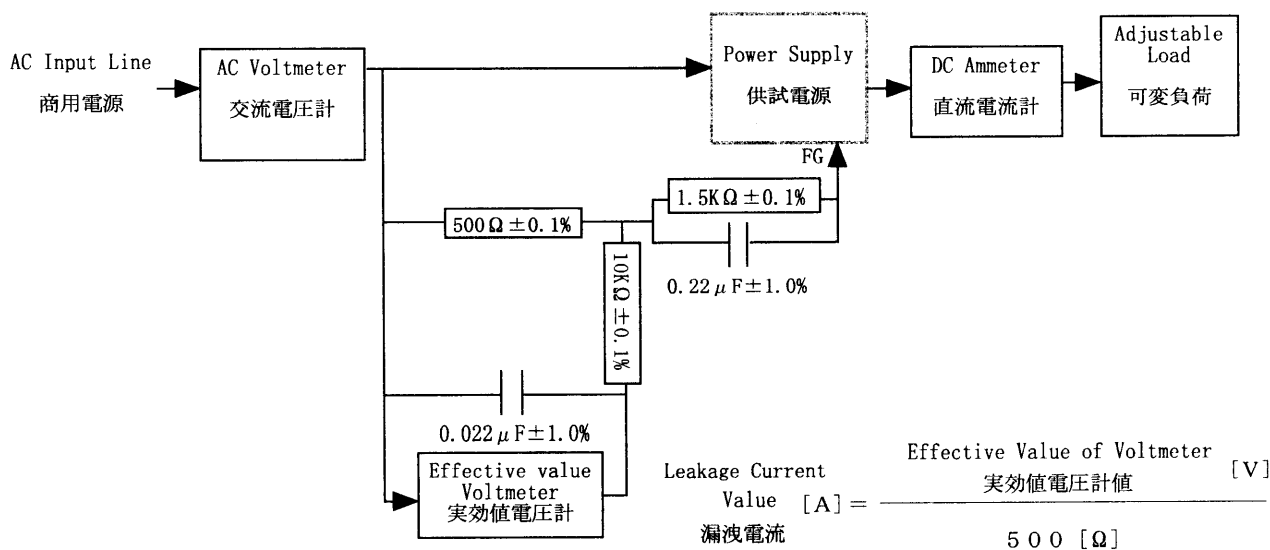


Figure B (IEC 60950)

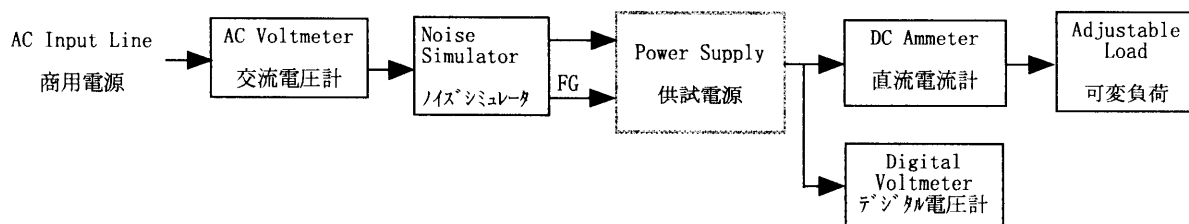


Figure C

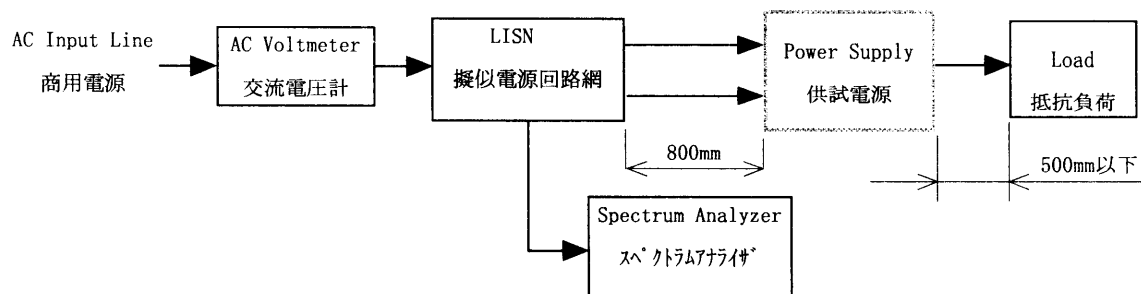


Figure D

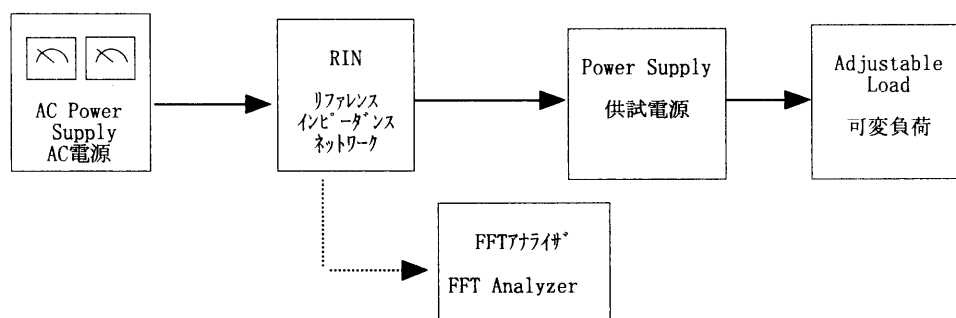


Figure E