



TEST DATA OF LEB225F-0524

(100V INPUT)

Regulated DC Power Supply

Mar. 21, 2000

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Design Manager

Prepared by : Tadayuki Koda
Design Engineer

コーセル株式会社
COSEL CO., LTD.

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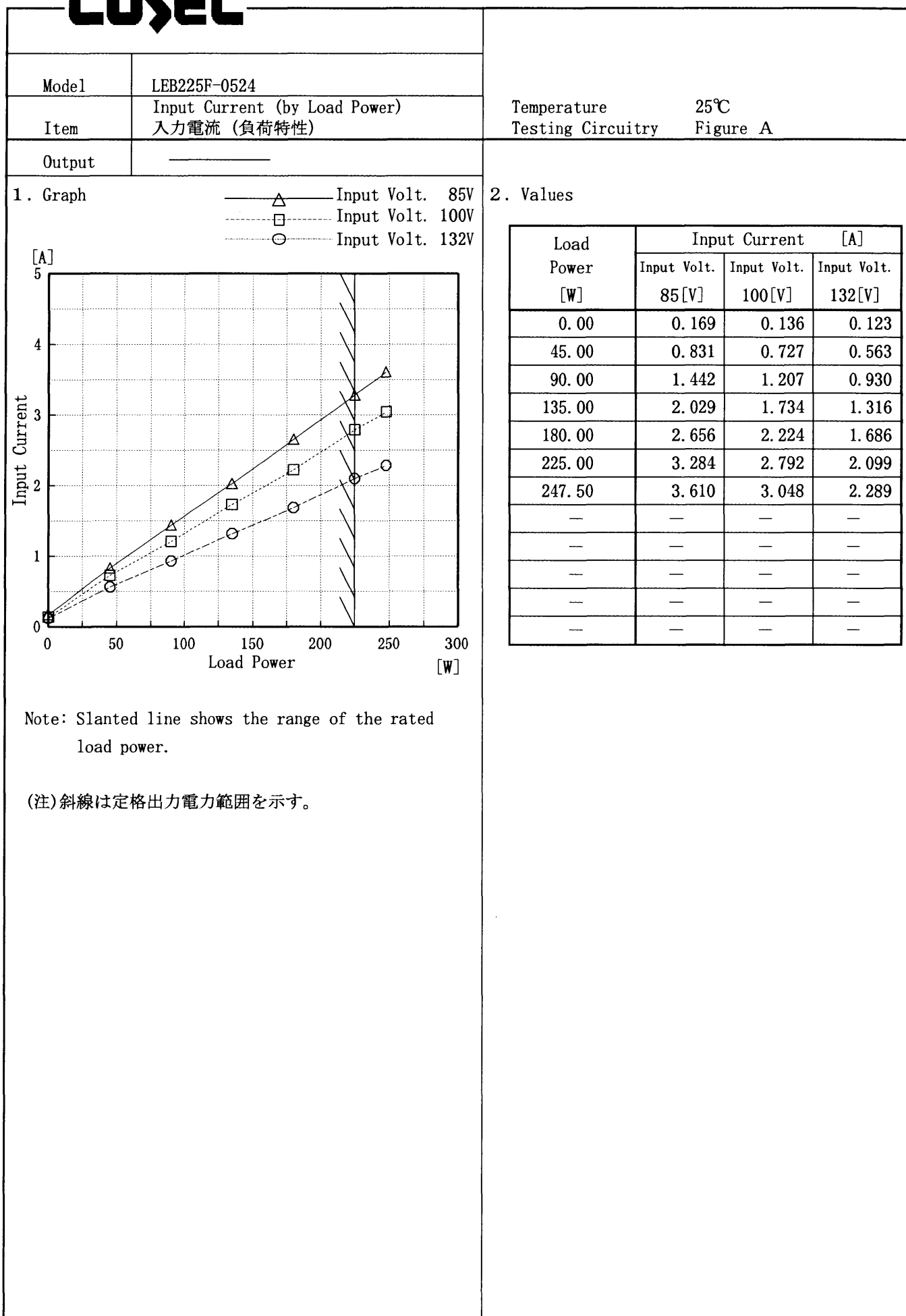
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Model		LEB225F-0524																																	
Item		Line Regulation 静の入力変動																																	
Object		V1: +5.0V5A																																	
1. Graph		2. Values																																	
<div><div><div>-----□-----</div><div>-----△-----</div></div><div>Load 50%</div><div>Load 100%</div></div> <div><div><div>Output Voltage [V]</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 [V]</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>5.040</td></tr><tr><td>80</td><td>5.048</td><td>5.040</td></tr><tr><td>85</td><td>5.048</td><td>5.040</td></tr><tr><td>90</td><td>5.048</td><td>5.040</td></tr><tr><td>100</td><td>5.048</td><td>5.040</td></tr><tr><td>110</td><td>5.048</td><td>5.041</td></tr><tr><td>120</td><td>5.048</td><td>5.041</td></tr><tr><td>132</td><td>5.048</td><td>5.041</td></tr><tr><td>140</td><td>5.048</td><td>5.041</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	5.047	5.040	80	5.048	5.040	85	5.048	5.040	90	5.048	5.040	100	5.048	5.040	110	5.048	5.041	120	5.048	5.041	132	5.048	5.041	140	5.048	5.041
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Object		V2: +24.0V9A																																	
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Model		LEB225F-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>---□--- Input Volt. 100V</div><div>---○--- Input Volt. 132V</div></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></div> <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>0.00</td><td>11.43</td><td>10.44</td><td>11.13</td></tr><tr><td>45.00</td><td>66.60</td><td>67.80</td><td>67.10</td></tr><tr><td>90.00</td><td>119.30</td><td>116.30</td><td>116.20</td></tr><tr><td>135.00</td><td>169.80</td><td>169.80</td><td>167.20</td></tr><tr><td>180.00</td><td>223.50</td><td>219.30</td><td>217.50</td></tr><tr><td>225.00</td><td>277.40</td><td>276.60</td><td>272.40</td></tr><tr><td>247.50</td><td>306.00</td><td>302.40</td><td>297.60</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></div>				Load Power [W]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	11.43	10.44	11.13	45.00	66.60	67.80	67.10	90.00	119.30	116.30	116.20	135.00	169.80	169.80	167.20	180.00	223.50	219.30	217.50	225.00	277.40	276.60	272.40	247.50	306.00	302.40	297.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model		LEB225F-0524	
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)	
Object			

1. Graph

-----□----- Load 50%

-----△----- Load 100%

Efficiency [%]

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(注)斜線は定格出力電力範囲を示す。																																																														

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BC-3274

COSEL

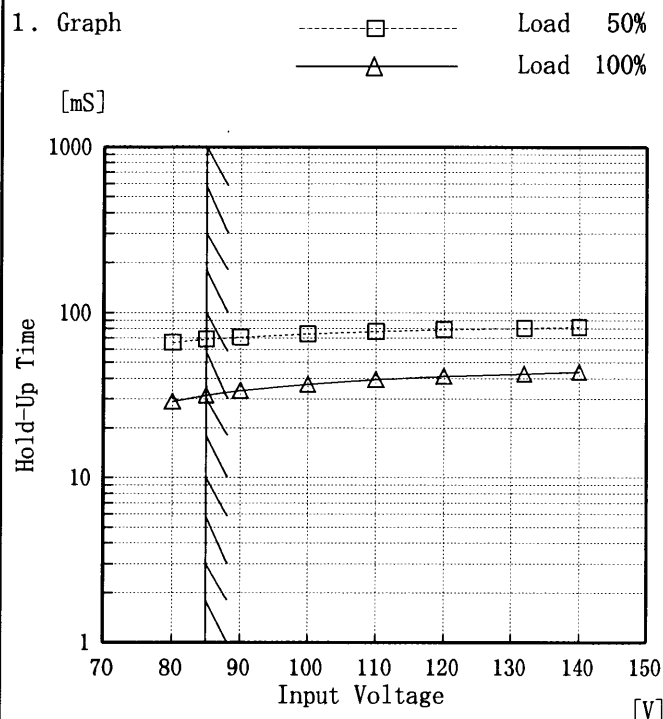
Model		LEB225F-0524		Temperature 25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry Figure A																																	
Object		V1: +5.0V5A																																			
1. Graph																																					
<div>-----□----- Load 50%</div> <div>-----△----- Load 100%</div> <div><p>[mS]</p><p>Hold-Up Time</p><p>1000</p><p>100</p><p>10</p><p>1</p><p>70 80 90 100 110 120 130 140 150</p><p>Input Voltage [V]</p></div>																																					
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Input Voltage [V]	Hold-Up Time [mS]																																				
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75	—	—																																			
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COSEL

Model LEB225F-0524

Item Hold-Up Time 出力保持時間

Object V2: +24.0V9A

Temperature 25°C
Testing Circuitry Figure A

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	66	29
85	69	32
90	71	34
100	74	37
110	77	39
120	79	41
132	81	43
140	82	44

COSEL

Model		LEB225F-0524		Temperature		25℃																																																																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																																																																				
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Load Current [A]	Input Volt. 85[V] [mS]	Input Volt. 100[V] [mS]	Input Volt. 132[V] [mS]																																																																																																							
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COSEL

Model		LEB225F-0524		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		V2: +24.0V9A																																																								
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Load Current [A]	Time [mS]																																																									
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COSEL

Model		LEB225F-0524	Temperature		25℃
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A
Object		V1: +5.0V5A	2. Values		
1. Graph		<div> <div>△</div> Input Volt. 85 V <div>□</div> Input Volt. 100 V <div>○</div> Input Volt. 132 V </div>			
Object		V2: +24.0V9A	2. Values		
1. Graph		<div> <div>△</div> Input Volt. 85 V <div>□</div> Input Volt. 100 V <div>○</div> Input Volt. 132 V </div>			
Note: Slanted line shows the range of the rated load current. (注)斜線は定格負荷電流範囲を示す。					

Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	5.052	5.052	5.052
0.8	5.051	5.051	5.051
1.6	5.049	5.049	5.049
2.4	5.048	5.048	5.048
3.2	5.046	5.046	5.046
4.0	5.043	5.044	5.044
4.8	5.041	5.041	5.041
5.0	5.040	5.040	5.041
5.5	5.039	5.039	5.039
—	—	—	—

Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	24.182	24.182	24.183
1.5	24.178	24.178	24.179
3.0	24.176	24.176	24.177
4.5	24.174	24.174	24.175
6.0	24.172	24.172	24.173
7.5	24.169	24.170	24.171
9.0	24.166	24.167	24.168
9.9	24.165	24.166	24.166
—	—	—	—
—	—	—	—

COSEL

Model		LEB225F-0524	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	
Object		V1: +5.0V5A	

1. Graph

—△— Input Volt. 85V

·····○····· 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。

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	15	15
0.8	15	15
1.6	15	15
2.4	20	20
3.2	20	20
4.0	20	20
4.8	20	20
5.0	20	20
5.5	20	20
—	—	—
—	—	—

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		LEB225F-0524	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	
Object		V2: +24.0V9A	

1. Graph

—△— Input Volt. 85V

—○— Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

0

2

4

6

8

10

12

Ripple Voltage [mV]

Load Current [A]

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	15	15
1.5	20	20
3.0	25	25
4.5	25	25
6.0	25	25
7.5	30	30
9.0	35	35
9.9	35	35
—	—	—
—	—	—
—	—	—

Ripple Voltage is shown as p-p in the figure below.

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

リップル電圧は、下図 p-p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング周期

Ripple [mVp-p]

T1

T2

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

COSEL

Model

LEB225F-0524

Item

Ripple-Noise
リップルノイズ

Object

V1: +5.0V5A

1. Graph

△

Input Volt. 85V

○

Input Volt. 132V

[mV]

200

180

160

140

120

100

80

60

40

20

0

0

2

4

6

Ripple-Noise

Load Current

[A]

Ripple-Noise is shown as p-p in the figure below.

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

リップルノイズは、下図 p - p 値で示される。

(注)斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング周期

T2

Ripple-Noise

[mVp-p]

T1

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

Temperature

25℃

Testing Circuitry

Figure A

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	60	60
0.8	60	60
1.6	60	60
2.4	60	60
3.2	60	60
4.0	60	60
4.8	65	65
5.0	65	65
5.5	65	65
—	—	—
—	—	—

COSEL

Model	LEB225F-0524		
Item	Ripple-Noise リップルノイズ	Temperature	25℃
		Testing Circuitry	Figure A
Object	V2: +24.0V9A		
1. Graph		2. Values	
<div><div>—△— Input Volt. 85V</div><div>---○--- Input Volt. 132V</div><div>[mV]</div><div><div>Ripple-Noise is shown as p-p in the figure below.</div><div>Note: Slanted line shows the range of the rated load current.</div></div></div>			
<div>リップルノイズは、下図 p - p 値で示される。</div> <div>(注)斜線は定格負荷電流範囲を示す。</div>			
<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><div><div>T2</div><div>Ripple-Noise [mVp-p]</div><div><div>T1</div></div></div></div>			
<div>Fig. Complex Ripple Wave Form</div> <div>図 リップル波形詳細図</div>			

COSEL

Model		LEB225F-0524		Temperature		25°C																																																								
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A																																																								
Object		V1: +5.0V5A		2. Values																																																										
1. Graph		<div><div></div>Input Volt. 85 V</div> <div><div></div>Input Volt. 100 V</div> <div><div></div>Input Volt. 132 V</div>																																																												
<div><div>[V]</div><div>8.0</div><div>6.0</div><div>4.0</div><div>2.0</div><div>0.0</div></div> <div>Output Voltage</div>		<div><div>Load Current</div><div>[A]</div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 100 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>5.00</td><td>6.89</td><td>7.04</td><td>7.18</td></tr><tr><td>4.75</td><td>6.77</td><td>6.91</td><td>7.04</td></tr><tr><td>4.50</td><td>6.66</td><td>6.80</td><td>6.92</td></tr><tr><td>4.00</td><td>6.37</td><td>6.49</td><td>6.59</td></tr><tr><td>3.50</td><td>6.08</td><td>6.19</td><td>6.28</td></tr><tr><td>3.00</td><td>5.73</td><td>5.82</td><td>5.90</td></tr><tr><td>2.50</td><td>5.40</td><td>5.48</td><td>5.56</td></tr><tr><td>2.00</td><td>5.01</td><td>5.08</td><td>5.14</td></tr><tr><td>1.50</td><td>4.59</td><td>4.65</td><td>4.71</td></tr><tr><td>1.00</td><td>4.08</td><td>4.13</td><td>4.18</td></tr><tr><td>0.50</td><td>3.58</td><td>3.63</td><td>3.68</td></tr><tr><td>0.00</td><td>5.00</td><td>5.09</td><td>5.19</td></tr></table>				Output Voltage [V]	Load Current [A]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	5.00	6.89	7.04	7.18	4.75	6.77	6.91	7.04	4.50	6.66	6.80	6.92	4.00	6.37	6.49	6.59	3.50	6.08	6.19	6.28	3.00	5.73	5.82	5.90	2.50	5.40	5.48	5.56	2.00	5.01	5.08	5.14	1.50	4.59	4.65	4.71	1.00	4.08	4.13	4.18	0.50	3.58	3.63	3.68	0.00	5.00	5.09	5.19
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Object		V2: +24.0V9A		2. Values																																																										
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<div><div>[V]</div><div>40.0</div><div>30.0</div><div>20.0</div><div>10.0</div><div>0.0</div></div> <div>Output Voltage</div>		<div><div>Load Current</div><div>[A]</div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 100 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>24.00</td><td>16.95</td><td>16.93</td><td>16.95</td></tr><tr><td>22.80</td><td>17.02</td><td>17.01</td><td>17.05</td></tr><tr><td>21.60</td><td>17.09</td><td>17.10</td><td>17.14</td></tr><tr><td>19.20</td><td>17.31</td><td>17.35</td><td>17.40</td></tr><tr><td>16.80</td><td>17.57</td><td>17.62</td><td>17.68</td></tr><tr><td>14.40</td><td>17.76</td><td>17.81</td><td>17.86</td></tr><tr><td>12.00</td><td>17.97</td><td>18.06</td><td>18.17</td></tr><tr><td>9.60</td><td>—</td><td>—</td><td>—</td></tr><tr><td>7.20</td><td>—</td><td>—</td><td>—</td></tr><tr><td>4.80</td><td>—</td><td>—</td><td>—</td></tr><tr><td>2.40</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr></table>				Output Voltage [V]	Load Current [A]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	24.00	16.95	16.93	16.95	22.80	17.02	17.01	17.05	21.60	17.09	17.10	17.14	19.20	17.31	17.35	17.40	16.80	17.57	17.62	17.68	14.40	17.76	17.81	17.86	12.00	17.97	18.06	18.17	9.60	—	—	—	7.20	—	—	—	4.80	—	—	—	2.40	—	—	—	0.00	—	—	—
Output Voltage [V]	Load Current [A]																																																													
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Note: Slanted line shows the range of the rated load current.																																																														
Intermittent operation occurs when the output voltage is from 11.1V to 0V.																																																														

COSEL

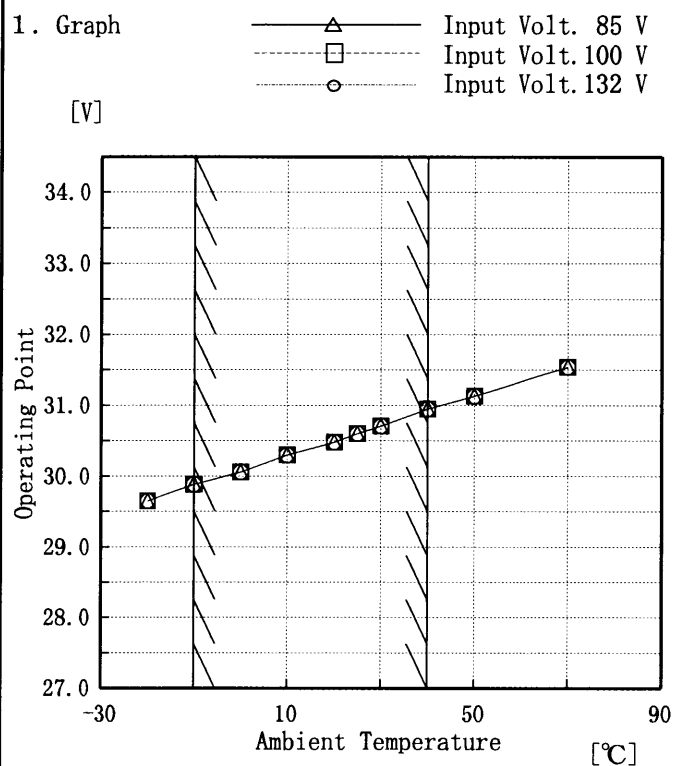
Model LEB225F-0524

Item Overvoltage Protection
過電圧保護

Object V2: +24.0V9A

Testing Circuitry Figure A

1. Graph



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

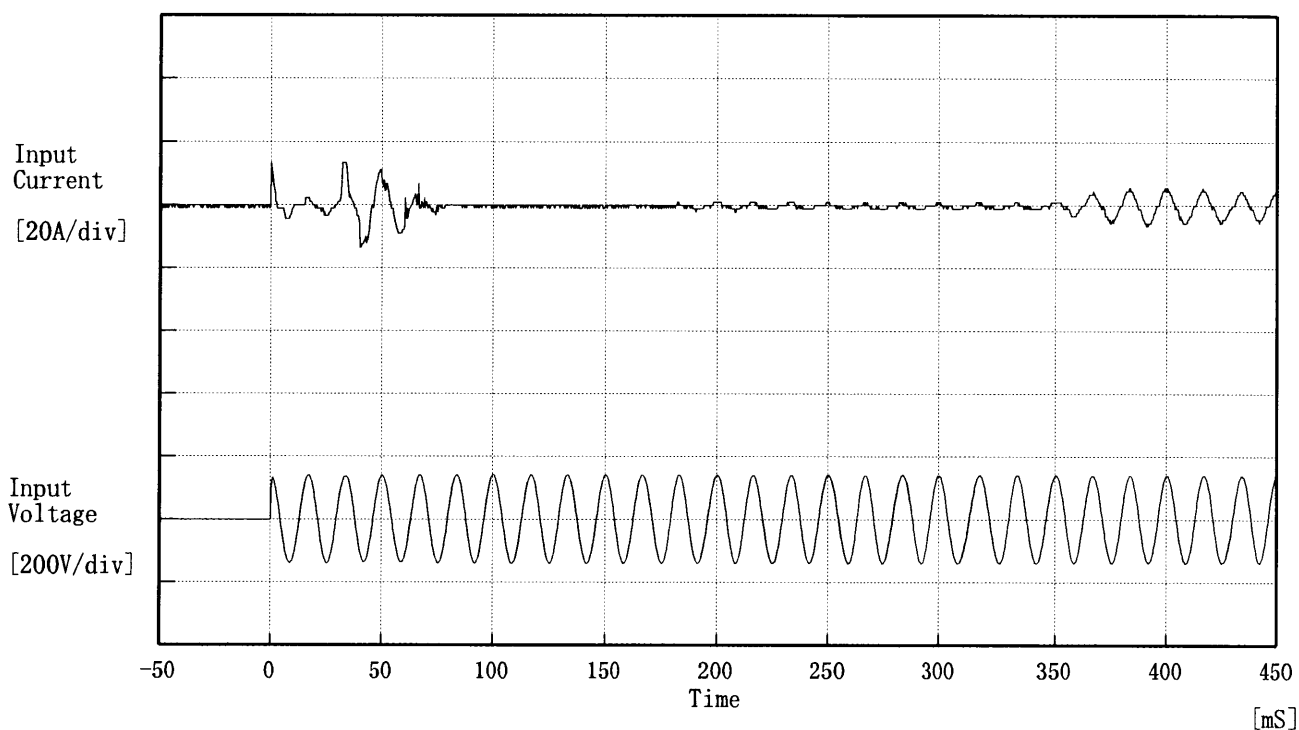
(注) 斜線は定格周囲温度範囲を示す。

2. Values

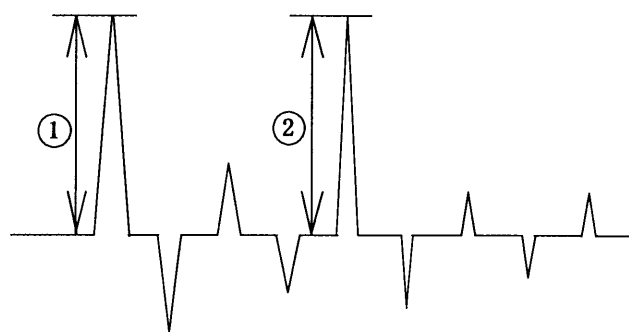
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	29.7	29.7	29.7
-10	29.9	29.9	29.9
0	30.1	30.1	30.1
10	30.3	30.3	30.3
20	30.5	30.5	30.5
25	30.6	30.6	30.6
30	30.7	30.7	30.7
40	31.0	31.0	31.0
50	31.1	31.1	31.1
70	31.5	31.5	31.5
—	—	—	—

COSEL

Model	LEB225F-0524	Temperature 25℃ Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



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



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Model	LEB225F-0524	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	V1: +5V5A		

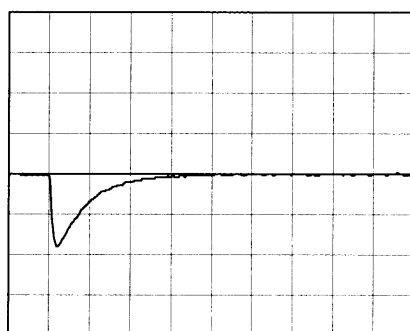
Input Volt. 100 V

Cycle 1000 mS

Load Current

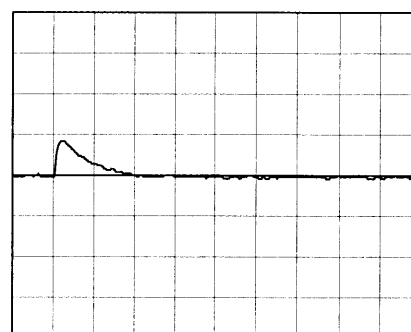
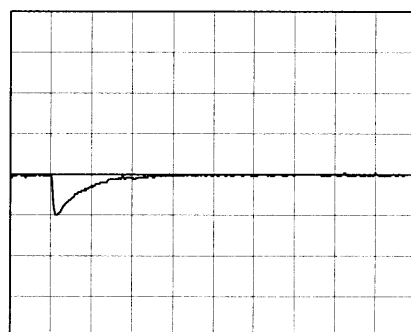
Min. Load \longleftrightarrow

Load 100 %



Min. Load \longleftrightarrow

Load 50 %



100 mV/div

10 ms/div



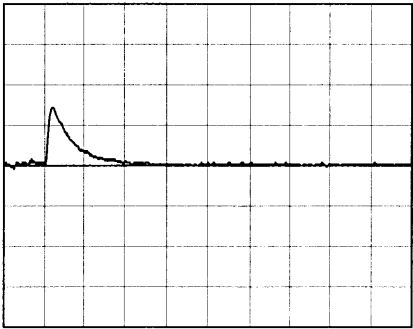
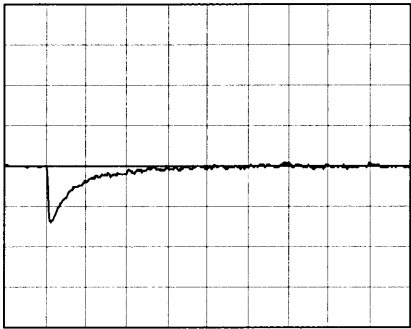
Model		LEB225F-0524	Temperature 25℃ Testing Circuitry Figure A	
Item		Dynamic Load Responce 動的負荷変動		
Object		V2: +24V9A		

Input Volt. 100 V
Cycle 1000 mS

Load Current

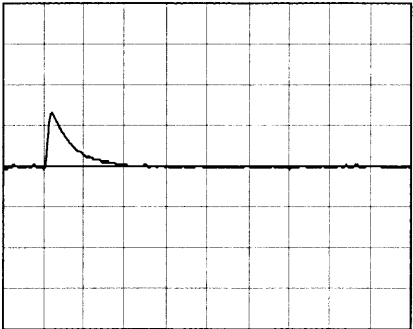
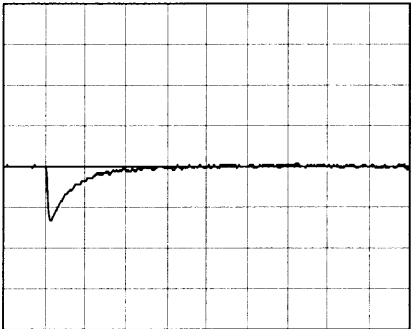


Min. Load ↔
Load 100 %

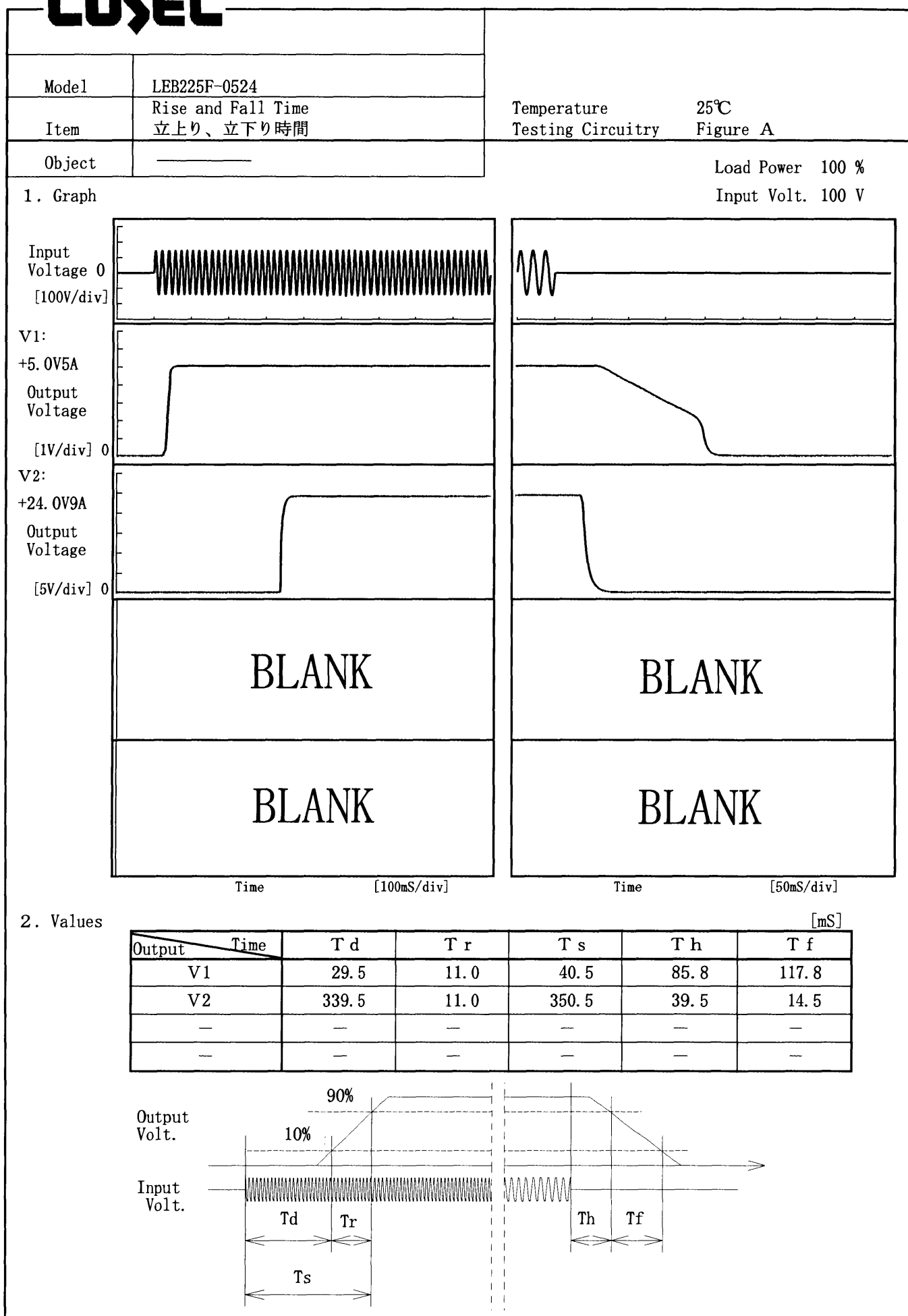


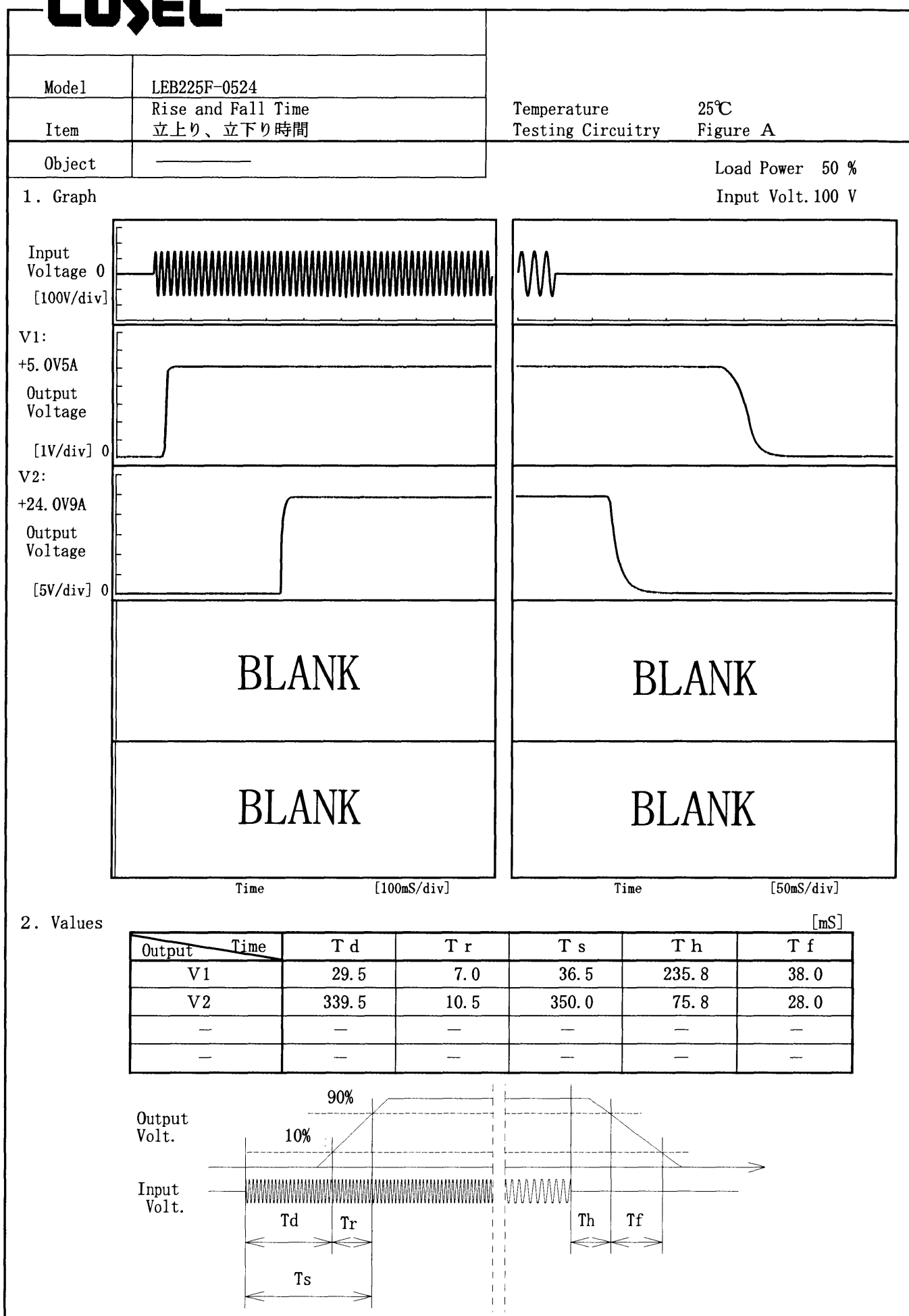
Min. Load ↔
Load 50 %

100 mV/div



10 ms/div

COSEL

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Model		LEB225F-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> <div><p>[V]</p><p>Output Voltage [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div>		<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>5.025</td><td>5.025</td><td>5.025</td></tr><tr><td>-10</td><td>5.028</td><td>5.028</td><td>5.028</td></tr><tr><td>0</td><td>5.030</td><td>5.030</td><td>5.031</td></tr><tr><td>10</td><td>5.032</td><td>5.033</td><td>5.033</td></tr><tr><td>20</td><td>5.035</td><td>5.036</td><td>5.036</td></tr><tr><td>25</td><td>5.036</td><td>5.037</td><td>5.037</td></tr><tr><td>30</td><td>5.038</td><td>5.037</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>5.037</td><td>5.038</td></tr><tr><td>70</td><td>5.033</td><td>5.033</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	5.025	5.025	5.025	-10	5.028	5.028	5.028	0	5.030	5.030	5.031	10	5.032	5.033	5.033	20	5.035	5.036	5.036	25	5.036	5.037	5.037	30	5.038	5.037	5.038	40	5.038	5.038	5.038	50	5.037	5.037	5.038	70	5.033	5.033	5.034	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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0	5.030	5.030	5.031																																																			
10	5.032	5.033	5.033																																																			
20	5.035	5.036	5.036																																																			
25	5.036	5.037	5.037																																																			
30	5.038	5.037	5.038																																																			
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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		LEB225F-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	
1. Graph		2. Values	

[V]	-----□-----	Load	50%
	-----△-----	Load	100%

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	59	71
-10	59	71
0	59	71
10	59	71
20	59	71
25	59	71
30	59	71
40	59	71
50	59	71
70	59	71
—	—	—

Object		V2: +24.0V9A	
1. Graph		2. Values	

[V]	-----□-----	Load	50%
	-----△-----	Load	100%

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	70	71
-10	70	71
0	70	71
10	70	71
20	70	71
25	70	71
30	70	71
40	70	71
50	70	71
70	70	71
—	—	—

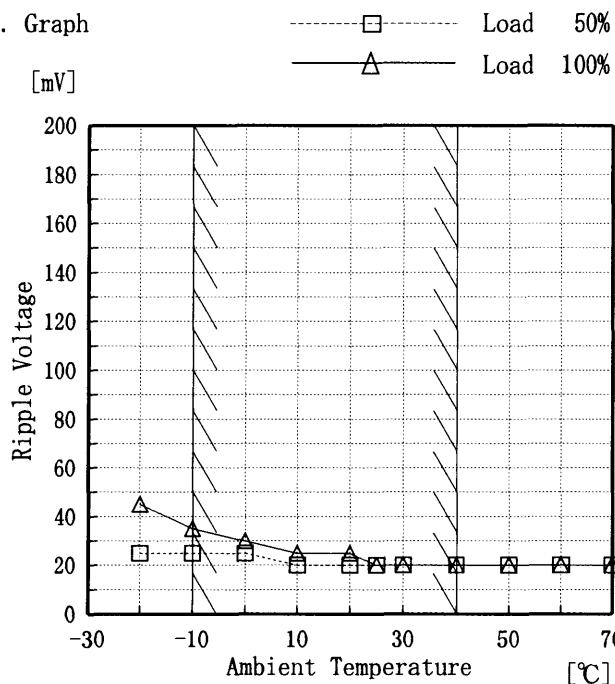
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

Model	LEB225F-0524
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1: +5.0V 5A

Testing Circuitry Figure A

1. Graph



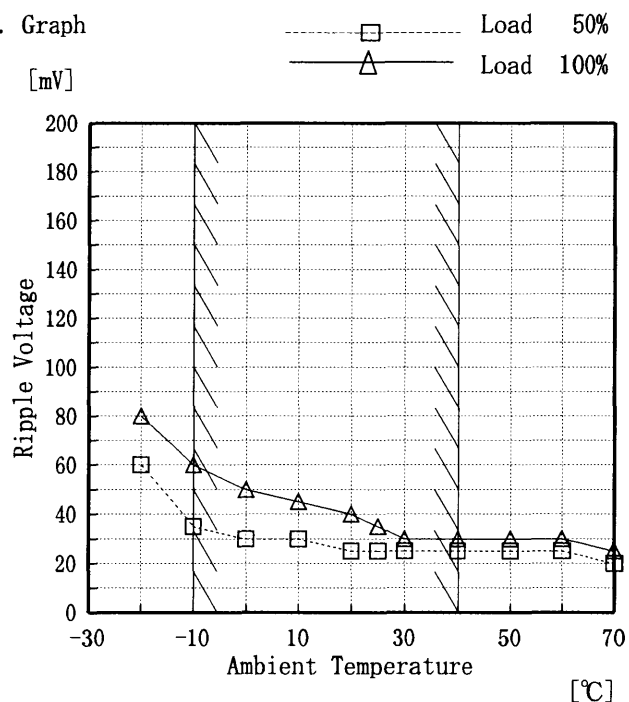
Input Volt. 100 V

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	25	45
-10	25	35
0	25	30
10	20	25
20	20	25
25	20	20
30	20	20
40	20	20
50	20	20
60	20	20
70	20	20

Object	V2: +24.0V9A
--------	--------------

1. Graph



Input Volt. 100 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。

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	60	80
-10	35	60
0	30	50
10	30	45
20	25	40
25	25	35
30	25	30
40	25	30
50	25	30
60	25	30
70	20	25

COSEL

COSEL			
Model	LEB225F-0524		
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃
		Testing Circuitry	Figure A
Object	V1: +5.0V5A		
1. Graph		2.Values	
<div><div><div>[V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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COSEL

		Testing Circuitry Figure A
Model	LEB225F-0524	
Item	Output Voltage Accuracy 定電圧精度	

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: 85~132 V

Load Current (V1) : 0~5 A

(V2) : 0~9 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 -10~40 °C

入力電圧 85~132 V

負荷電流 (V1) 0~5 A

(V2) 0~9 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
--------	-------------

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	40	85	0	5.053	±11	±0.3
Minimum Voltage	-10	85	5	5.032		

Object	V2: +24.0V9A
--------	--------------

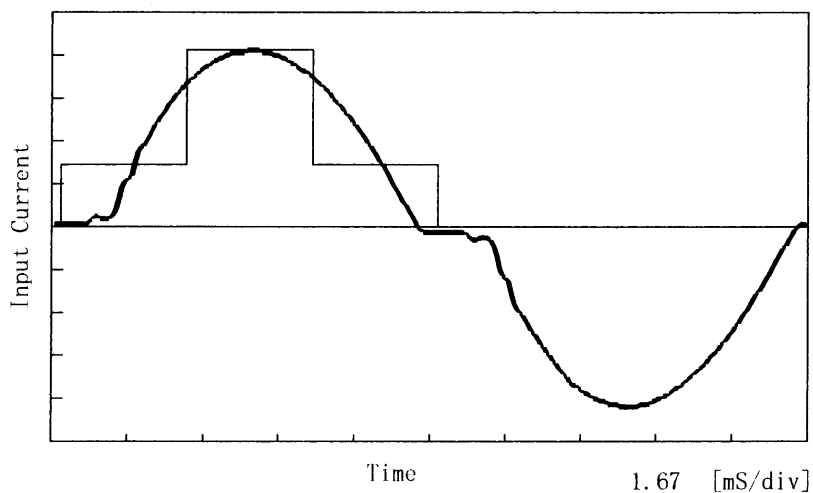
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	40	132	0	24.205	±41	±0.2
Minimum Voltage	-10	100	9	24.123		

COSEL

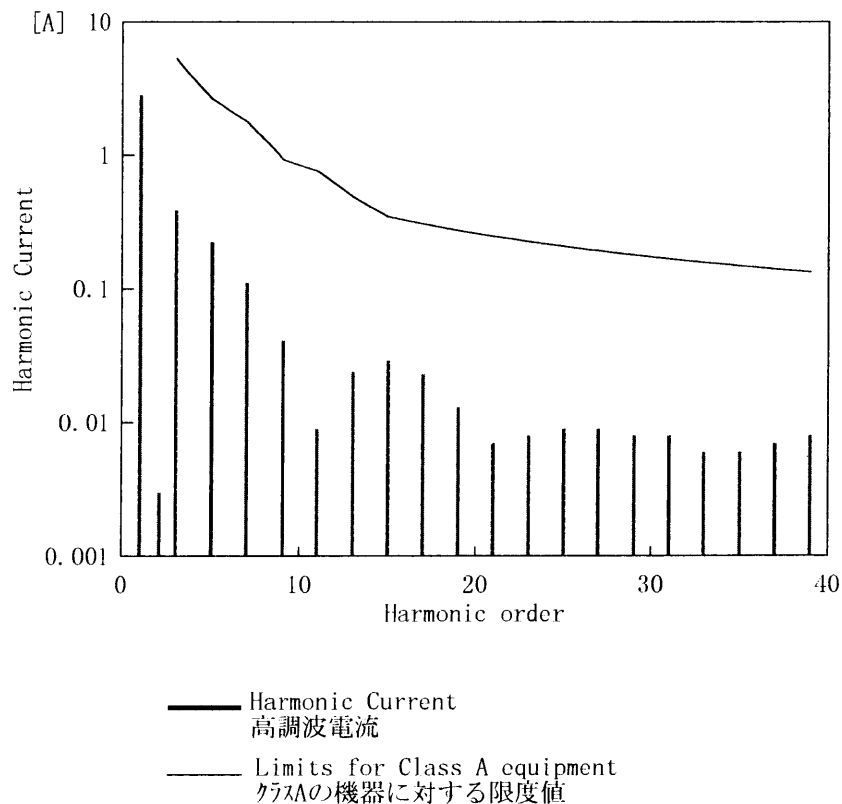
Model	LEB225F-0524	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

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]	99.2
Input Current [A]	2.877
Active Power [W]	281.6
Apparent Power [VA]	285.5
Frequency [Hz]	60
Power Factor	0.986
Output Power [W]	225

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	2.83800
2	—	0.00300
3	5.33266	0.39000
4	—	0.00100
5	2.64315	0.22500
6	—	0.00100
7	1.78528	0.11100
8	—	0.00100
9	0.92742	0.04100
10	—	0.00100
11	0.76512	0.00900
12	—	0.00100
13	0.48690	0.02400
14	—	0.00100
15	0.34778	0.02900
16	—	0.00000
17	0.30687	0.02300
18	—	0.00100
19	0.27456	0.01300
20	—	0.00100
21	0.24842	0.00700
22	—	0.00100
23	0.22681	0.00800
24	—	0.00100
25	0.20867	0.00900
26	—	0.00100
27	0.19321	0.00900
28	—	0.00000
29	0.17989	0.00800
30	—	0.00100
31	0.16828	0.00800
32	—	0.00000
33	0.15808	0.00600
34	—	0.00000
35	0.14905	0.00600
36	—	0.00100
37	0.14099	0.00700
38	—	0.00000
39	0.13376	0.00800
40	—	0.00000

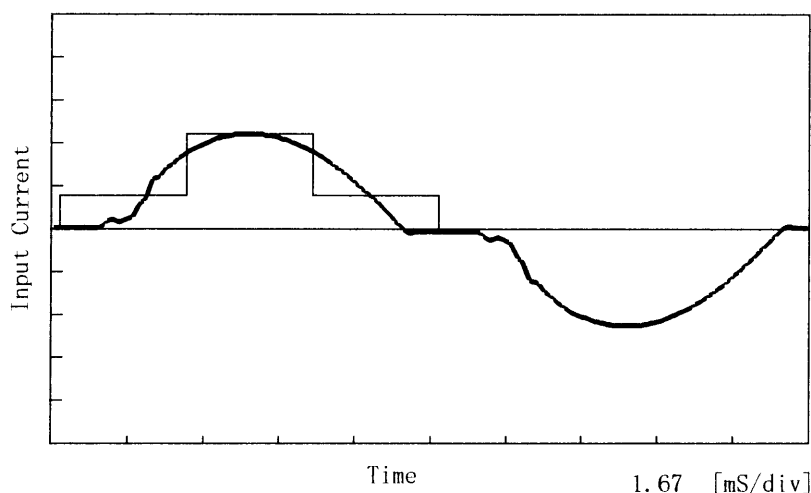
COSEL

Model	LEB225F-0524	Temperature 25°C Testing Circuitry Figure E
Item	Harmonic Current 高調波電流	
Object		

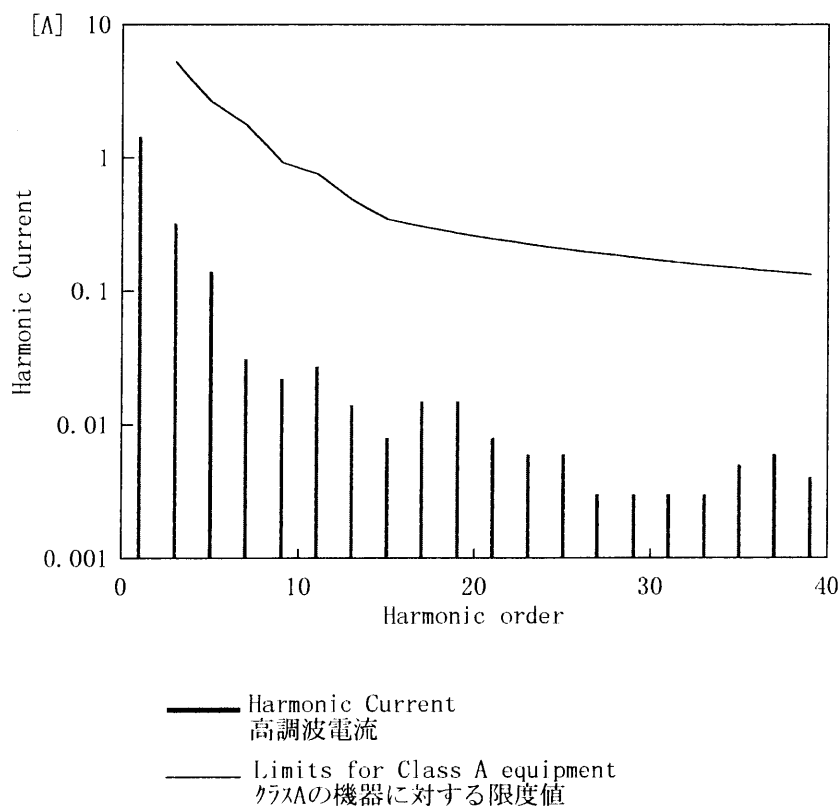
1. Input Current Waveform

— 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]	1.493
Active Power [W]	144.7
Apparent Power [VA]	149.1
Frequency [Hz]	60
Power Factor	0.970
Output Power [W]	112.5

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.44900
2	—	0.00100
3	5.29530	0.32300
4	—	0.00000
5	2.62462	0.14000
6	—	0.00000
7	1.77277	0.03100
8	—	0.00000
9	0.92092	0.02200
10	—	0.00000
11	0.75976	0.02700
12	—	0.00000
13	0.48348	0.01400
14	—	0.00000
15	0.34535	0.00800
16	—	0.00000
17	0.30472	0.01500
18	—	0.00000
19	0.27264	0.01500
20	—	0.00000
21	0.24668	0.00800
22	—	0.00000
23	0.22523	0.00600
24	—	0.00000
25	0.20721	0.00600
26	—	0.00000
27	0.19186	0.00300
28	—	0.00000
29	0.17863	0.00300
30	—	0.00000
31	0.16710	0.00300
32	—	0.00000
33	0.15698	0.00300
34	—	0.00000
35	0.14801	0.00500
36	—	0.00000
37	0.14000	0.00600
38	—	0.00000
39	0.13283	0.00400
40	—	0.00000

Load Current [A]	Oscillator Frequency [KHz]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.8	368	370	371
1.6	263	264	265
2.4	202	204	204
3.2	161	164	165
4.0	134	138	139
4.8	116	118	118
5.0	113	115	116
5.5	104	106	107
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

		Testing Circuitry Figure A
Model	LEB225F-0524	
Item	Condensation 結露特性	

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.

② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で－10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

Object	V1:+5.0V5A
--------	------------

Item	Data	Testing Conditions
Output Voltage [V]	5.041	Input Volt.: 100V, Load Current:5A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:5A
Load Regulation [mV]	12	Input Volt.: 100V, Load Current:0～5A

Object	V2:+24.0V9A
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Item	Data	Testing Conditions
Output Voltage [V]	24.173	Input Volt.: 100V, Load Current:9A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:9A
Load Regulation [mV]	15	Input Volt.: 100V, Load Current:0～9A

BC-3274

COSEL

Model		Temperature 25℃ Testing Circuitry Figure B	
LEB225F-0524			
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	0.15	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 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	LEB225F-0524	Temperature Testing Circuitry	25℃ Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	V1: +5.0V5A		

1. Results

Conditions

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

Pulse Width [nS]	MODE		No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
		POLARITY		
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

Object	V2: +24.0V9A
--------	--------------

1. Results

Conditions

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

Pulse Width [nS]	MODE		No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
		POLARITY		
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	LEB225F-0524	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object	_____		

1. Graph

Remarks

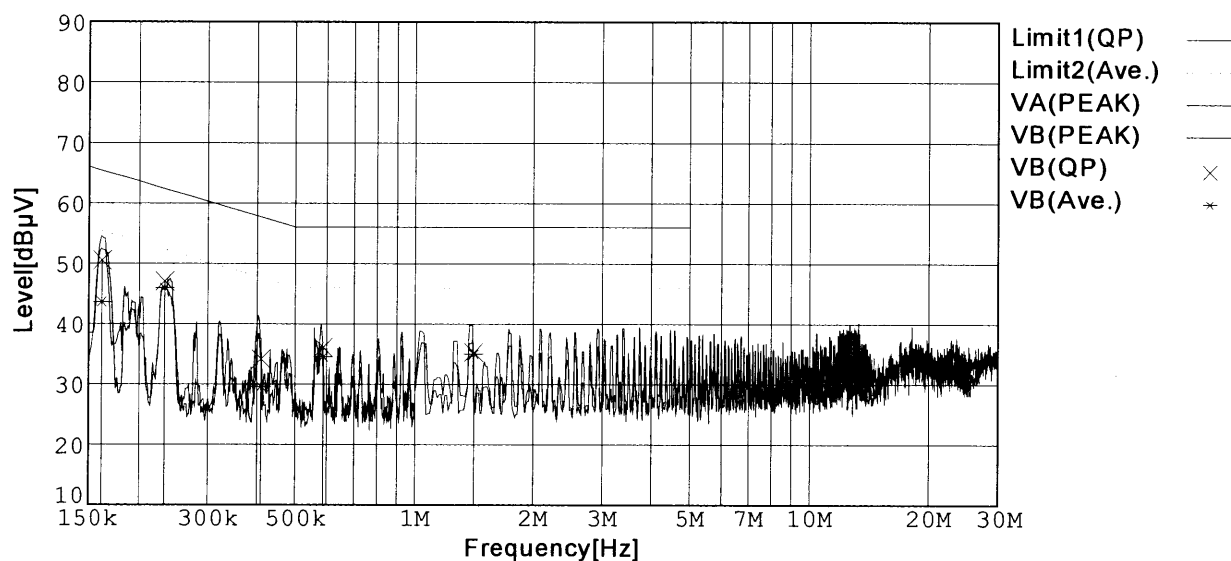
Input Volt. 100 V (VCCI Class B)

120 V (FCC Class B)

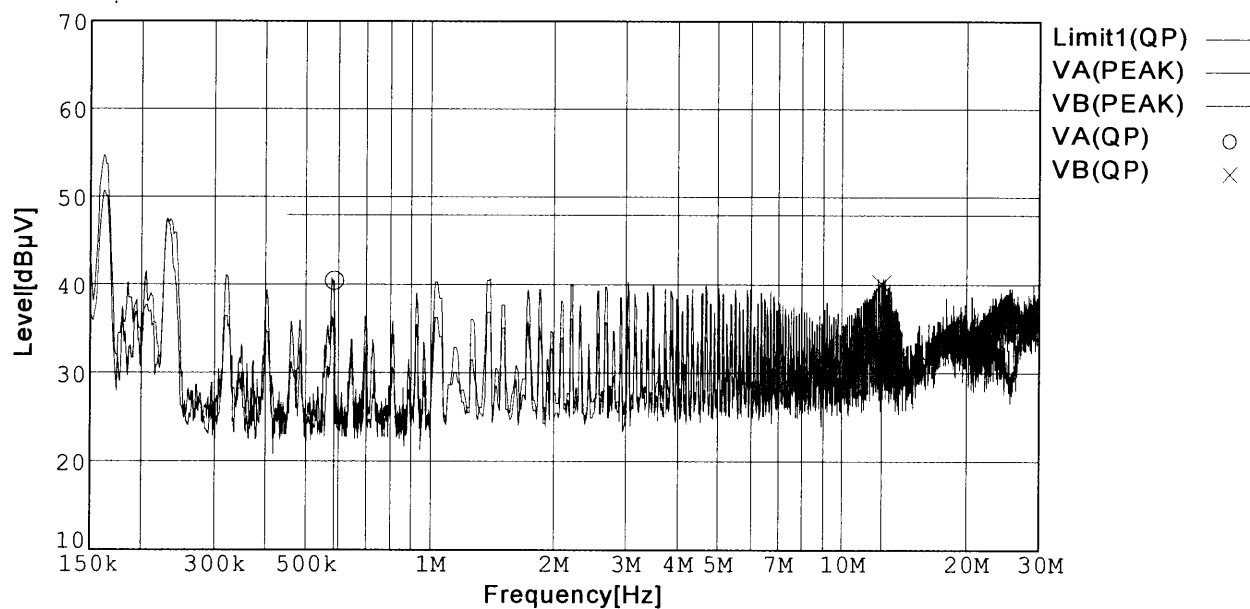
Load 100 %

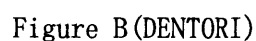
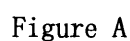
Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B





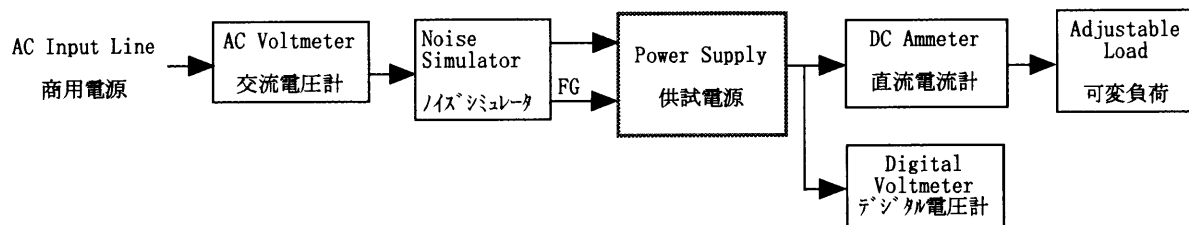


Figure C

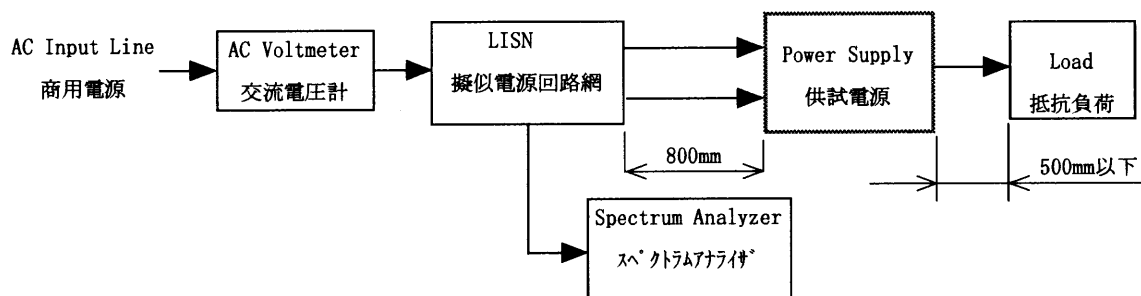


Figure D

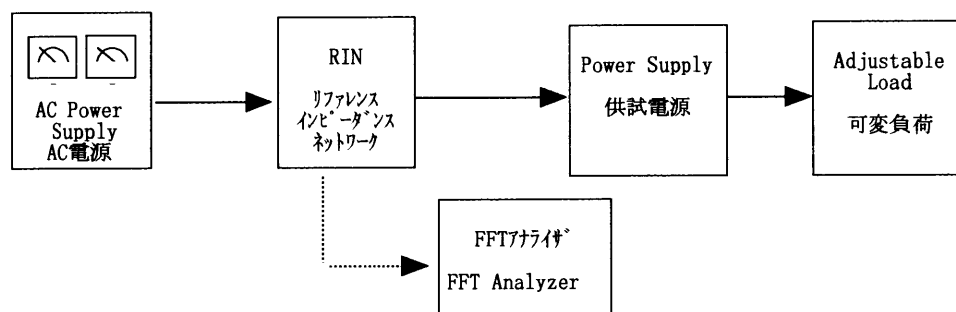


Figure E