



# TEST DATA OF LEB100F-0512

(100V INPUT)

Regulated DC Power Supply

Mar. 16, 2000

Approved by : T. Miura  
Design Manager

Prepared by : T. Kawai  
Design Engineer

**コーセル株式会社**  
**COSEL CO., LTD.**

## CONTENTS

1. Line Regulation . . . . .	1
静的入力変動	
2. Input Current (by Load Power) . . . . .	2
入力電流 (負荷特性)	
3. Input Power (by Load Power) . . . . .	3
入力電力 (負荷特性)	
4. Efficiency (by Input Voltage) . . . . .	4
効率 (入力電圧特性)	
5. Efficiency (by Load Power) . . . . .	5
効率 (負荷特性)	
6. Power Factor (by Input Voltage) . . . . .	6
力率 (入力電圧特性)	
7. Power Factor (by Load Power) . . . . .	7
力率 (負荷特性)	
8. Hold-Up Time . . . . .	8
出力保持時間	
9. Instantaneous Interruption Compensation . . . . .	10
瞬時停電保障	
10. Load Regulation . . . . .	12
静的負荷変動	
11. Ripple Voltage (by Load Current) . . . . .	13
リップル電圧 (負荷特性)	
12. Ripple-Noise . . . . .	15
リップルノイズ	
13. Overcurrent Protection . . . . .	17
過電流保護	
14. Overvoltage Protection . . . . .	18
過電圧保護	
15. Inrush Current . . . . .	19
突入電流	
16. Dynamic Load Responce . . . . .	20
動的負荷変動	
17. Rise and Fall Time . . . . .	22
立上り、立下り時間	
18. Ambient Temperature Drift . . . . .	24
周囲温度変動	
19. Minimum Input Voltage for Regulated Output Voltage . . . . .	25
最低レギュレーション電圧	
20. Ripple Voltage (by Ambient Temperature) . . . . .	26
リップル電圧 (周囲温度特性)	
21. Time Lapse Drift . . . . .	27
経時ドリフト	
22. Output Voltage Accuracy . . . . .	28
定電圧精度	
23. Harmonic Current . . . . .	29
高調波電流	
24. Oscillator Frequency . . . . .	31
発振周波数	
25. Condensation . . . . .	32
結露特性	
26. Leakage Current . . . . .	33
漏洩電流	
27. Line Noise Tolerance . . . . .	34
入力雑音耐量	
28. Conducted Emission . . . . .	35
雑音端子電圧	
29. Figure of Testing Circuitry . . . . .	36
測定回路図	

(Final Page 37 )

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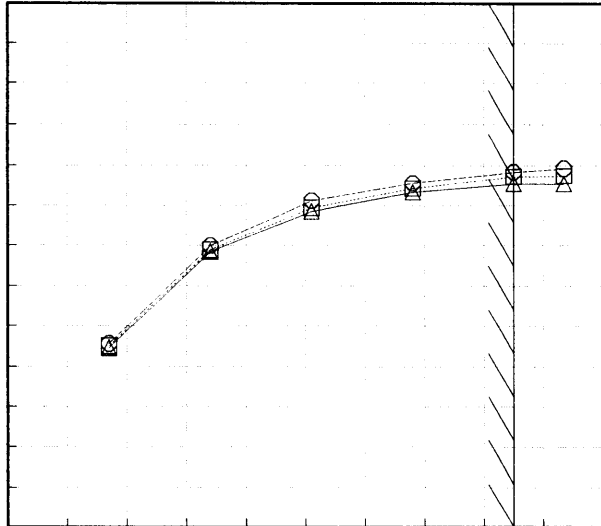
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# COSEL

Model		LEB100F-0512		Temperature25℃ Testing CircuitryFigure A																																
Item		Power Factor (by Input Voltage) 力率（入力電圧特性）																																		
Object																																				
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Input Voltage [V]	Power Factor																																			
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Model		LEB100F-0512		Temperature 25℃ Testing Circuitry Figure A																																																								
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# COSEL

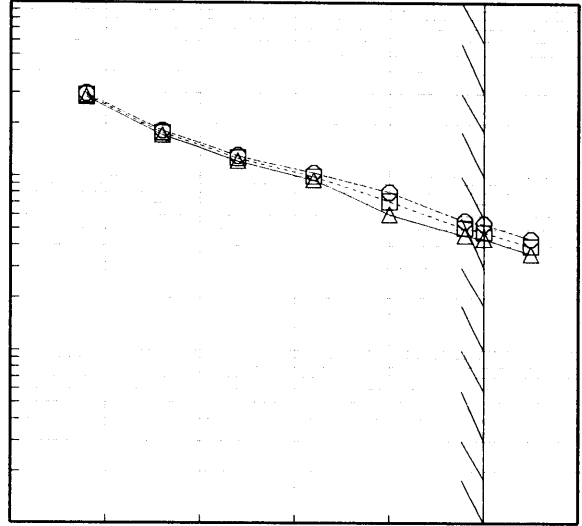
Model		LEB100F-0512		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
Object		V1: +5.0V5A																																					
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Input Voltage [V]	Hold-Up Time [mS]																																						
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# COSEL

Model	LEB100F-0512																																		
Item	Hold-Up Time 出力保持時間	Temperature Testing Circuitry	25℃ Figure A																																
Object	V2: +12.0V5A																																		
1. Graph		2. Values																																	
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Input Voltage [V]	Hold-Up Time [mS]																																		
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80	53	32
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# COSEL

Model		LEB100F-0512		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		V1: +5.0V5A																																																								
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Load Current [A]	Time [mS]																																																									
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Model		LEB100F-0512		Temperature		25℃																																																				
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BC-3268

# COSEL

Model		LEB100F-0512		Temperature		25℃																																							
Item		Ripple Voltage(by Load Current) リップル電圧(負荷特性)		Testing Circuitry		Figure A																																							
Object		V1: +5.0V5A																																											
1. Graph				2.Values																																									
<div><div>——△—— Input Volt. 85V</div><div>- - -○- - - Input Volt. 132V</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><p>Fig. Complex Ripple Wave Form</p><p>図 リップル波形詳細図</p></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]																																												
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BC-3268

# COSEL

Model		LEB100F-0512		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></div> <table border="1"><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr></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>55</td><td>55</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>				Load Current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	40	40	1.0	50	50	2.0	50	50	3.0	55	55	4.0	60	60	5.0	65	65	5.5	65	65	—	—	—	—	—	—	—	—	—	—	—	—				
Load Current [A]	Ripple-Noise [mV]																																												
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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>																																													

# COSEL

Model		LEB100F-0512	
Item		Ripple-Noise リップルノイズ	
Object		V2: +12.0V5A	

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

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	35	35
1.0	55	55
2.0	60	55
3.0	65	65
4.0	70	70
5.0	75	70
5.5	75	75
—	—	—
—	—	—
—	—	—
—	—	—

# COSEL

Model		LEB100F-0512		Temperature Testing Circuitry	25°C Figure A																																																							
Item		Overcurrent Protection 過電流保護																																																										
Object		V1: +5.0V5A																																																										
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<div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div><p>Note: Slanted line shows the range of the rated load current.</p></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>7.00</td><td>7.10</td></tr><tr><td>4.75</td><td>6.78</td><td>6.86</td><td>6.95</td></tr><tr><td>4.50</td><td>6.61</td><td>6.70</td><td>6.79</td></tr><tr><td>4.00</td><td>6.32</td><td>6.39</td><td>6.46</td></tr><tr><td>3.50</td><td>6.03</td><td>6.07</td><td>6.14</td></tr><tr><td>3.00</td><td>5.68</td><td>5.74</td><td>5.80</td></tr><tr><td>2.50</td><td>5.29</td><td>5.34</td><td>5.38</td></tr><tr><td>2.00</td><td>4.89</td><td>4.93</td><td>4.97</td></tr><tr><td>1.50</td><td>4.50</td><td>4.53</td><td>4.57</td></tr><tr><td>1.00</td><td>3.96</td><td>3.99</td><td>4.02</td></tr><tr><td>0.50</td><td>3.48</td><td>3.51</td><td>3.54</td></tr><tr><td>0.00</td><td>4.48</td><td>4.52</td><td>4.57</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	7.00	7.10	4.75	6.78	6.86	6.95	4.50	6.61	6.70	6.79	4.00	6.32	6.39	6.46	3.50	6.03	6.07	6.14	3.00	5.68	5.74	5.80	2.50	5.29	5.34	5.38	2.00	4.89	4.93	4.97	1.50	4.50	4.53	4.57	1.00	3.96	3.99	4.02	0.50	3.48	3.51	3.54	0.00	4.48	4.52	4.57
Output Voltage [V]	Load Current [A]																																																											
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<div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div><p>Note: Slanted line shows the range of the rated load current.</p><p>Intermittent operation occurs when the output voltage is from 8.4V to 0V.</p></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>12.00</td><td>12.33</td><td>12.32</td><td>12.31</td></tr><tr><td>11.40</td><td>12.36</td><td>12.36</td><td>12.34</td></tr><tr><td>10.80</td><td>12.41</td><td>12.40</td><td>12.38</td></tr><tr><td>9.60</td><td>12.47</td><td>12.44</td><td>12.41</td></tr><tr><td>8.40</td><td>12.44</td><td>12.42</td><td>12.42</td></tr><tr><td>7.20</td><td>—</td><td>—</td><td>—</td></tr><tr><td>6.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>4.80</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3.60</td><td>—</td><td>—</td><td>—</td></tr><tr><td>2.40</td><td>—</td><td>—</td><td>—</td></tr><tr><td>1.20</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]	12.00	12.33	12.32	12.31	11.40	12.36	12.36	12.34	10.80	12.41	12.40	12.38	9.60	12.47	12.44	12.41	8.40	12.44	12.42	12.42	7.20	—	—	—	6.00	—	—	—	4.80	—	—	—	3.60	—	—	—	2.40	—	—	—	1.20	—	—	—	0.00	—	—	—
Output Voltage [V]	Load Current [A]																																																											
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-17-

BC-3268

# COSEL

Model		LEB100F-0512	
Item		Overvoltage Protection 過電圧保護	
Object		V2: +12.0V5A	

1. Graph

—△—

Input Volt. 85 V

—□—

Input Volt. 100 V

—○—

Input Volt. 132 V

[V]

Operating Point

18.0

17.0

16.0

15.0

14.0

13.0

12.0

11.0

—30

10

50

90

Ambient Temperature

[°C]

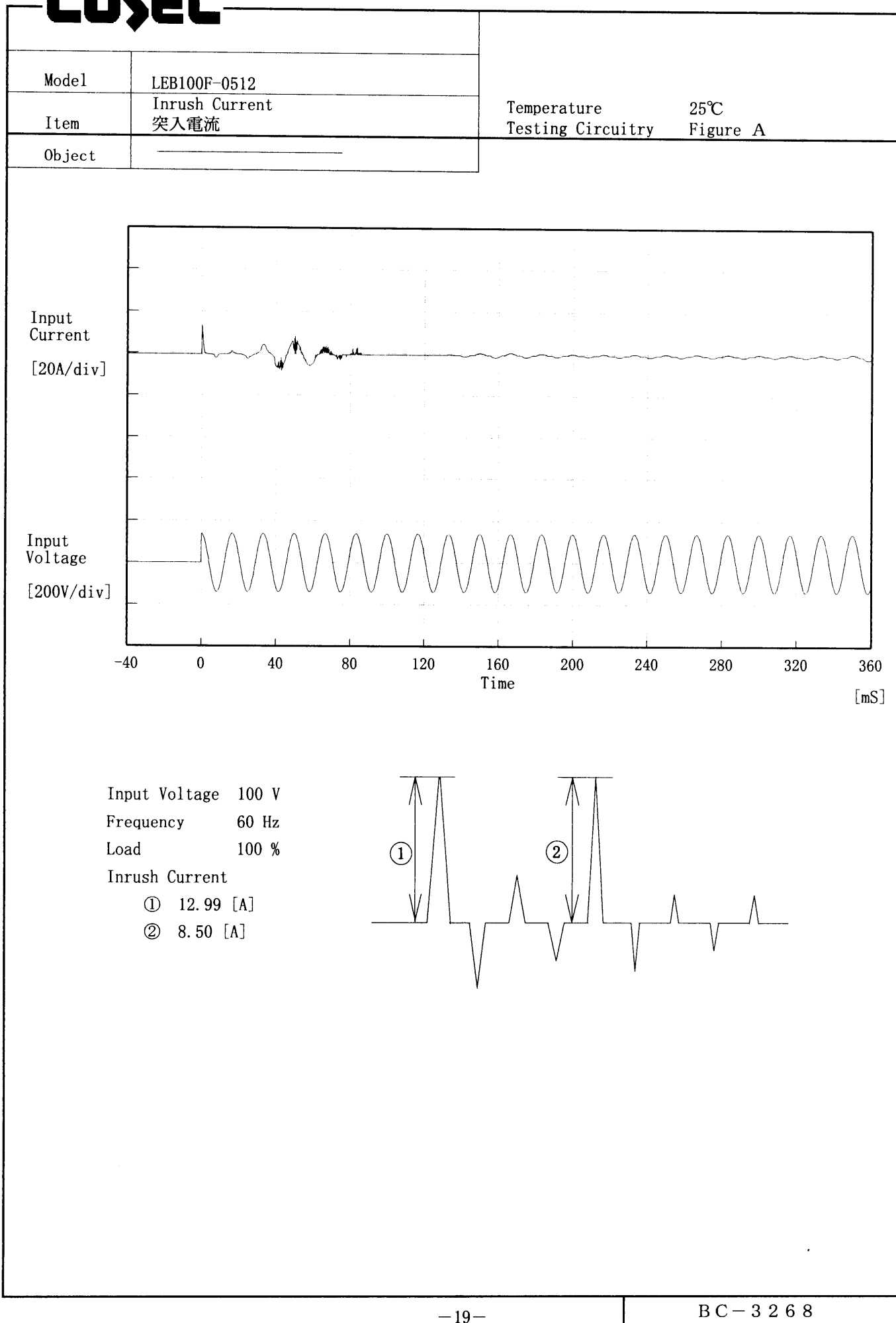
Load 0%

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。

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	15.2	15.2	15.2
-10	15.3	15.3	15.3
0	15.4	15.4	15.4
10	15.5	15.5	15.5
20	15.6	15.6	15.6
25	15.6	15.6	15.6
30	15.7	15.7	15.7
40	15.8	15.8	15.8
50	15.9	15.9	15.9
70	16.1	16.1	16.1
—	—	—	—

2. Values

**COSEL**

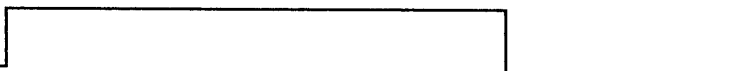


Model	LEB100F-0512		
Item	Dynamic Load Responce 動的負荷変動	Temperature	25°C
		Testing Circuitry	Figure A
Object	V1: +5.0V5A		

Input Volt. 100 V

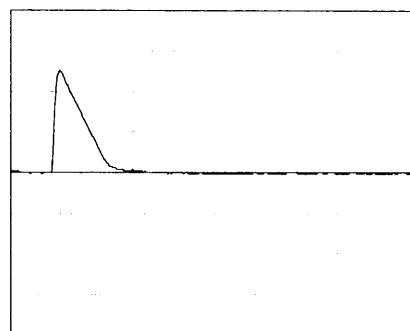
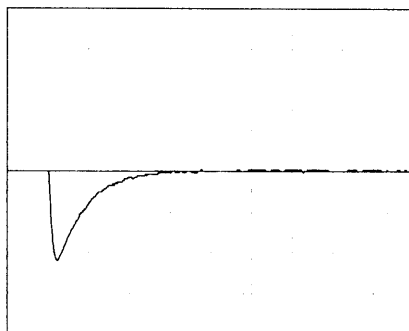
Cycle 1000 mS

Load Current



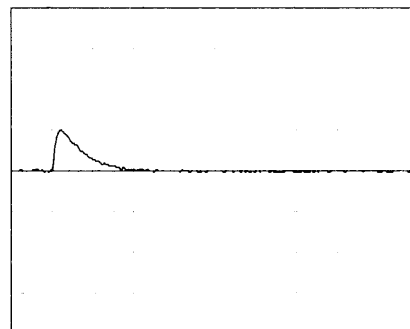
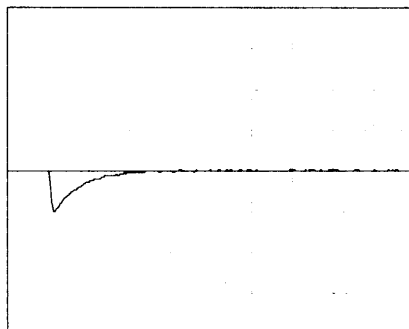
Min. Load ←→

Load 100 %



Min. Load ←→

Load 50 %



100 mV/div

10 ms/div

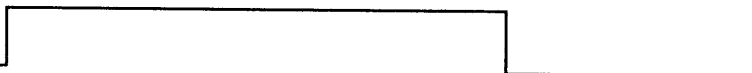
# COSEL

Model	LEB100F-0512	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	V2: +12.0V5A	

Input Volt. 100 V

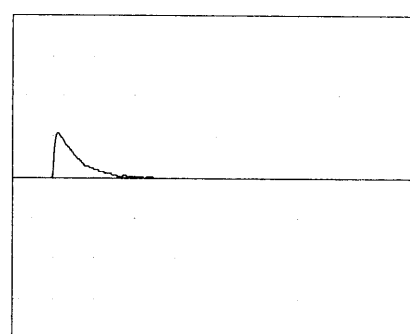
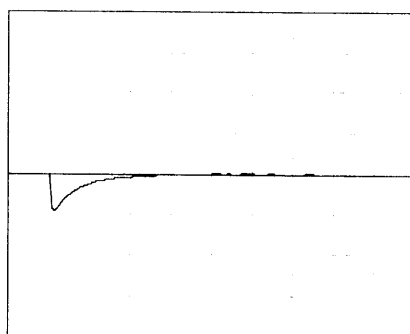
Cycle 1000 mS

Load Current



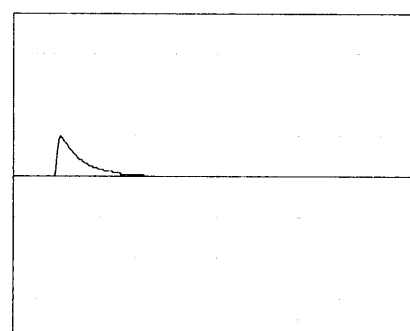
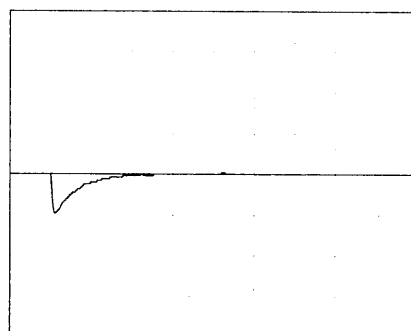
Min. Load  $\longleftrightarrow$

Load 100 %



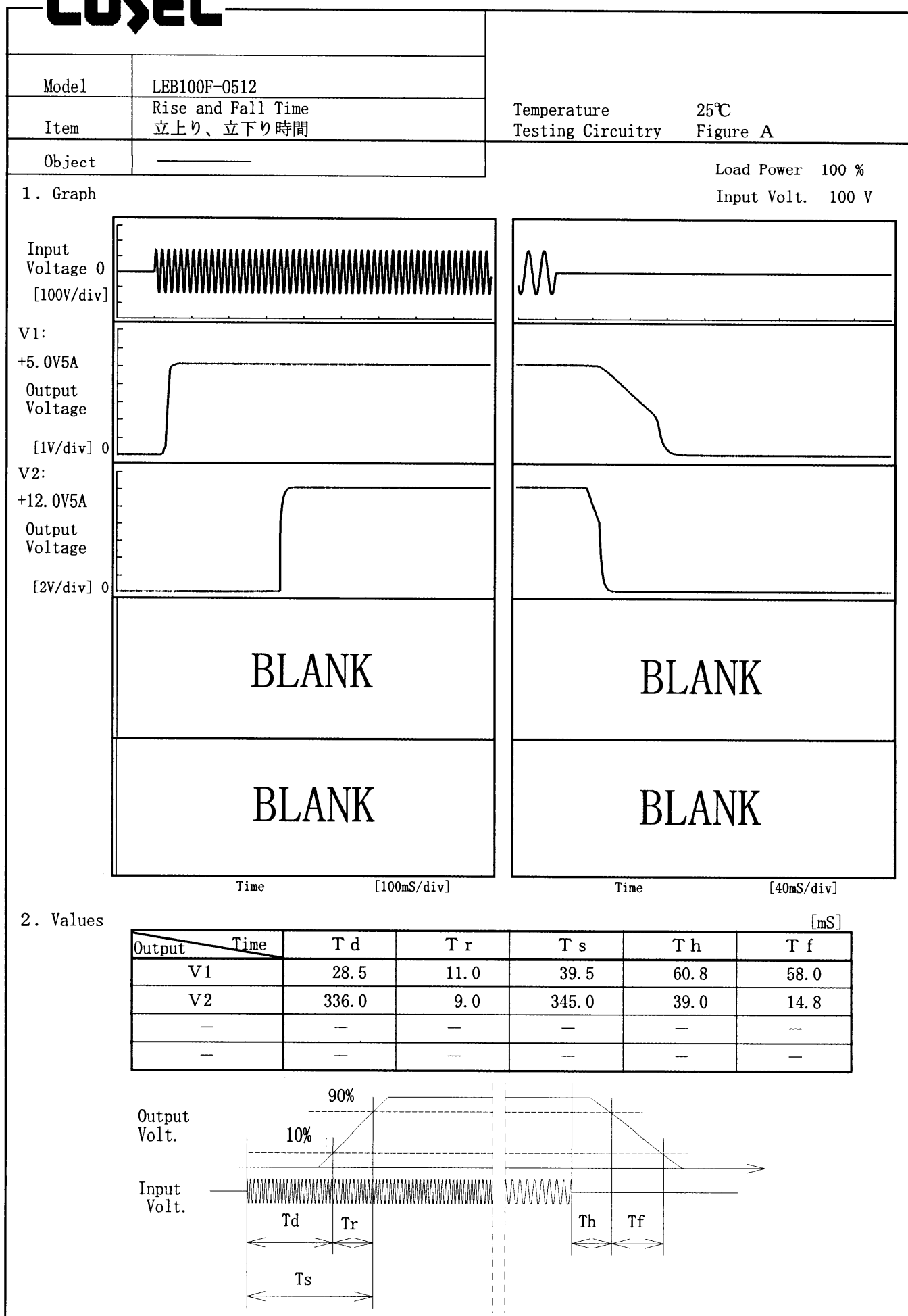
Min. Load  $\longleftrightarrow$

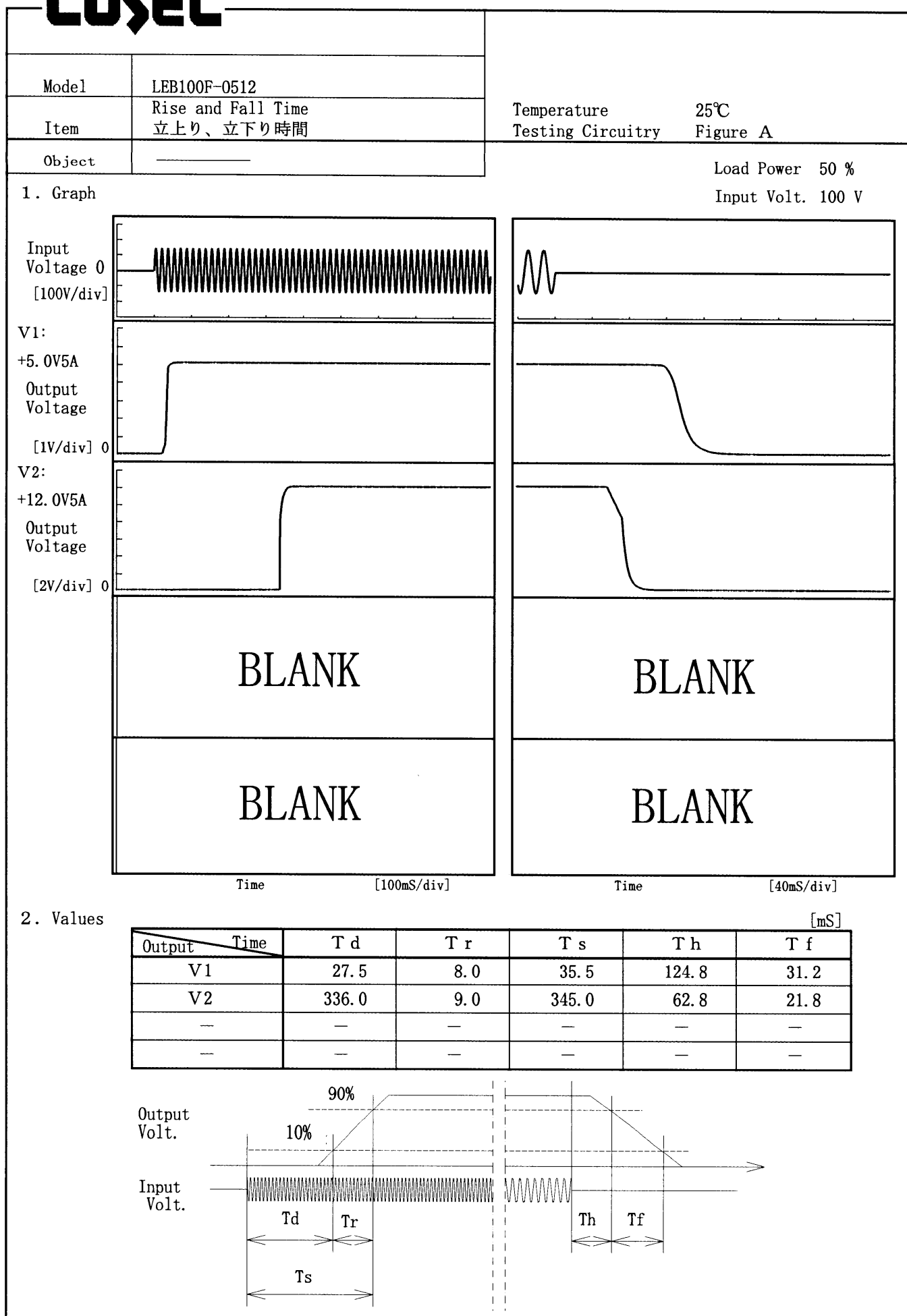
Load 50 %



100 mV/div

10 ms/div

**COSEL**

**COSEL**

# COSEL

Model		LEB100F-0512																																																				
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>5.084</td><td>5.084</td><td>5.085</td></tr><tr><td>-10</td><td>5.087</td><td>5.088</td><td>5.088</td></tr><tr><td>0</td><td>5.090</td><td>5.090</td><td>5.090</td></tr><tr><td>10</td><td>5.093</td><td>5.093</td><td>5.093</td></tr><tr><td>20</td><td>5.096</td><td>5.096</td><td>5.096</td></tr><tr><td>25</td><td>5.097</td><td>5.097</td><td>5.097</td></tr><tr><td>30</td><td>5.097</td><td>5.097</td><td>5.097</td></tr><tr><td>40</td><td>5.099</td><td>5.099</td><td>5.099</td></tr><tr><td>50</td><td>5.099</td><td>5.099</td><td>5.099</td></tr><tr><td>70</td><td>5.097</td><td>5.098</td><td>5.098</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	5.084	5.084	5.085	-10	5.087	5.088	5.088	0	5.090	5.090	5.090	10	5.093	5.093	5.093	20	5.096	5.096	5.096	25	5.097	5.097	5.097	30	5.097	5.097	5.097	40	5.099	5.099	5.099	50	5.099	5.099	5.099	70	5.097	5.098	5.098	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
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Object		V2: +12.0V5A																																																				
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>12.174</td><td>12.174</td><td>12.174</td></tr><tr><td>-10</td><td>12.173</td><td>12.173</td><td>12.173</td></tr><tr><td>0</td><td>12.173</td><td>12.173</td><td>12.173</td></tr><tr><td>10</td><td>12.173</td><td>12.173</td><td>12.173</td></tr><tr><td>20</td><td>12.174</td><td>12.174</td><td>12.174</td></tr><tr><td>25</td><td>12.175</td><td>12.175</td><td>12.175</td></tr><tr><td>30</td><td>12.177</td><td>12.176</td><td>12.176</td></tr><tr><td>40</td><td>12.174</td><td>12.174</td><td>12.174</td></tr><tr><td>50</td><td>12.171</td><td>12.171</td><td>12.171</td></tr><tr><td>70</td><td>12.159</td><td>12.159</td><td>12.159</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	12.174	12.174	12.174	-10	12.173	12.173	12.173	0	12.173	12.173	12.173	10	12.173	12.173	12.173	20	12.174	12.174	12.174	25	12.175	12.175	12.175	30	12.177	12.176	12.176	40	12.174	12.174	12.174	50	12.171	12.171	12.171	70	12.159	12.159	12.159	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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Note: Slanted line shows the range of the rated ambient temperature.																																																						
(注)斜線は定格周囲温度範囲を示す。																																																						

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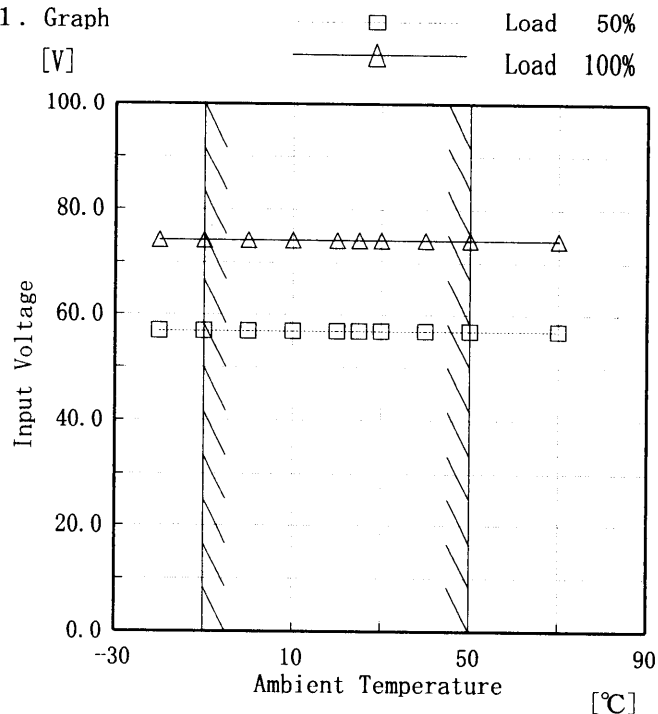
# COSEL

Model LEB100F-0512

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

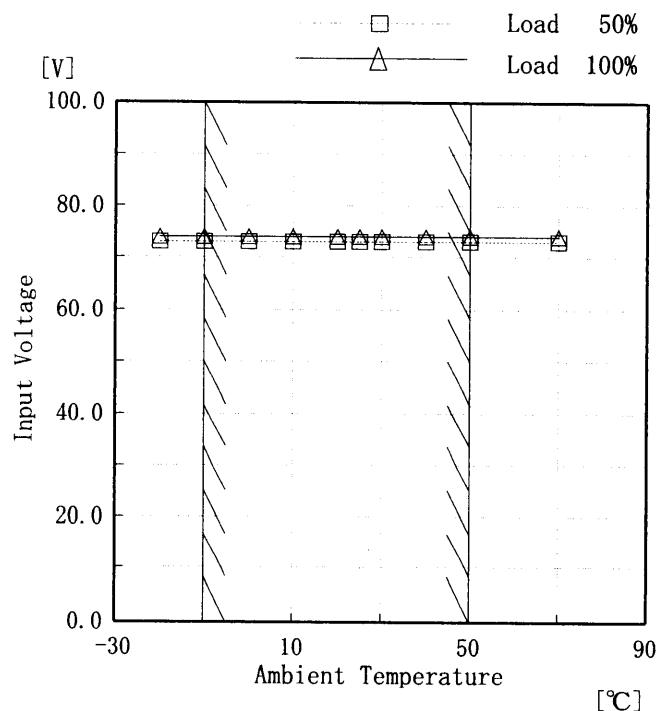


Testing Circuitry Figure A

## 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: +12.0V5A



## 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-0512		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				2. Values																																							
<div><div>□ Load 50%</div><div>△ Load 100%</div><p>Input Volt. 100 V</p></div>				<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%																																									
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Ambient Temperature [°C]	Ripple Output Voltage [mV]																																										
	Load 50%	Load 100%																																									
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**COSEL**

COSEL			
Model	LEB100F-0512		
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

Model	LEB100F-0512	Testing Circuitry Figure A
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 : -10~50 °C

Input Voltage : 85~132 V

Load Current (V1) : 0~5 A

(V2) : 0~5 A

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

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

## 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) 0~5 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 (Ratio) [%]
Maximum Voltage	50	100	0	5.117	±15	±0.3
Minimum Voltage	-10	85	5	5.088		

Object V2: +12.0V5A

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ratio) [%]
Maximum Voltage	25	85	0	12.187	±9	±0.1
Minimum Voltage	50	85	5	12.170		

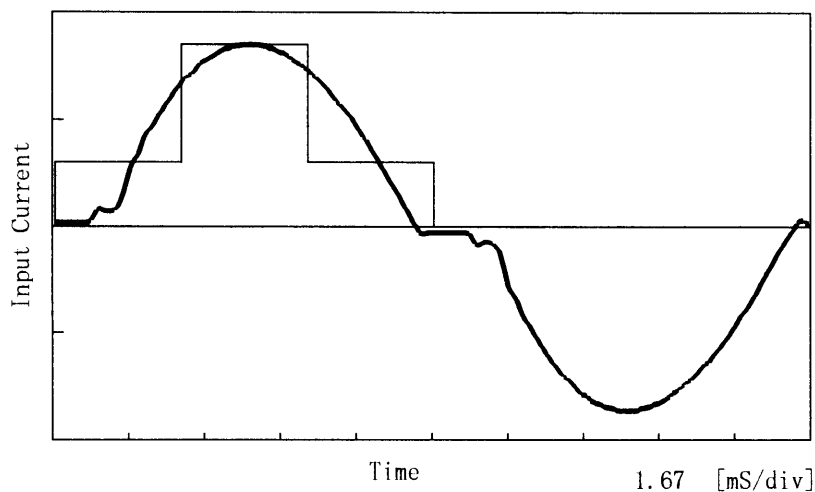
# COSEL

Model	LEB100F-0512	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

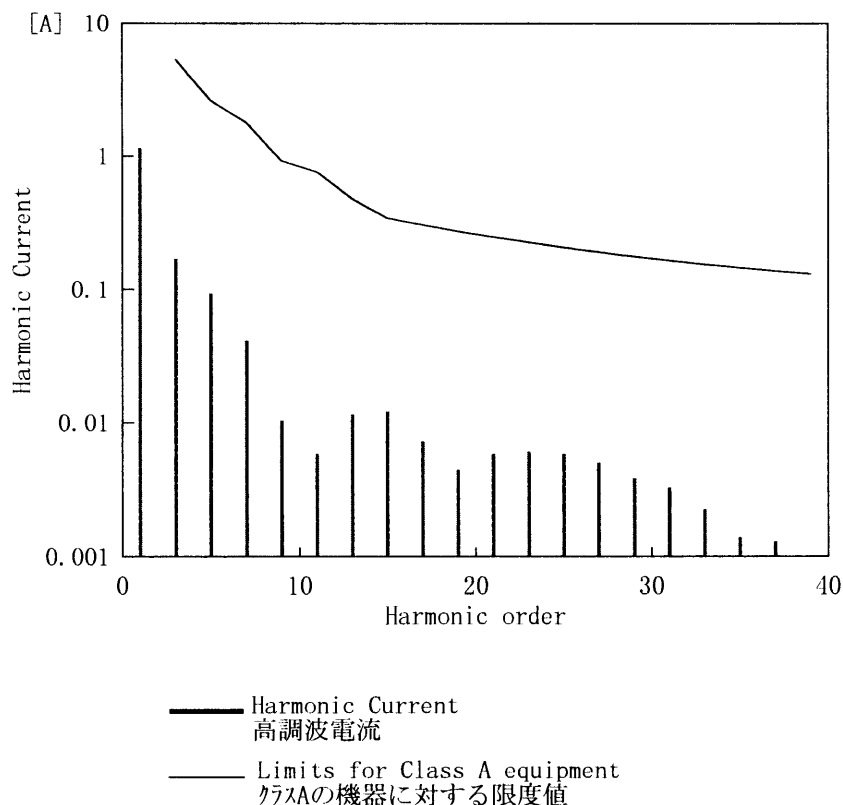
## 1. Input Current Waveform

— 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]	100
Input Current [A]	1.179
Active Power [W]	116.2
Apparent Power [VA]	117.9
Frequency [Hz]	60
Power Factor	0.986
Output Power [W]	85

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.16170
2	—	0.00050
3	5.29000	0.17330
4	—	0.00030
5	2.62200	0.09370
6	—	0.00010
7	1.77100	0.04200
8	—	0.00010
9	0.92000	0.01040
10	—	0.00010
11	0.75900	0.00600
12	—	0.00010
13	0.48300	0.01160
14	—	0.00000
15	0.34500	0.01220
16	—	0.00000
17	0.30441	0.00730
18	—	0.00010
19	0.27237	0.00450
20	—	0.00000
21	0.24643	0.00590
22	—	0.00010
23	0.22500	0.00620
24	—	0.00000
25	0.20700	0.00590
26	—	0.00000
27	0.19167	0.00510
28	—	0.00000
29	0.17845	0.00390
30	—	0.00010
31	0.16694	0.00330
32	—	0.00000
33	0.15682	0.00230
34	—	0.00000
35	0.14786	0.00140
36	—	0.00000
37	0.13986	0.00130
38	—	0.00000
39	0.13269	0.00010
40	—	0.00010

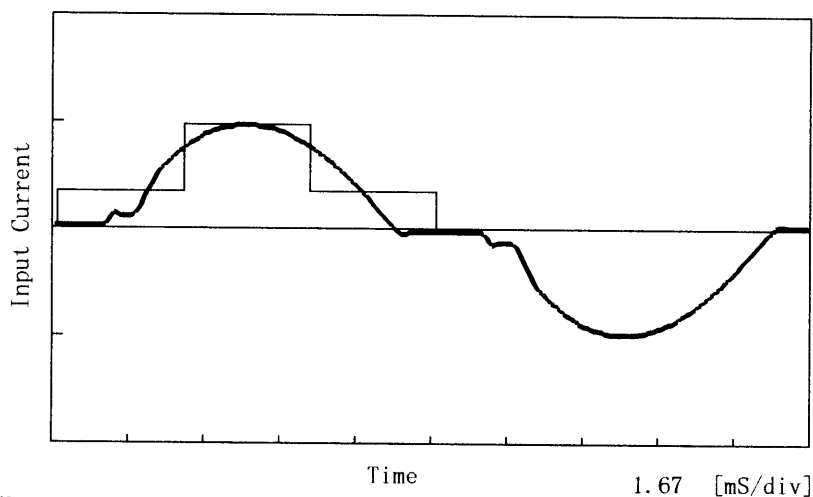
**COSEL**

Model	LEB100F-0512	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

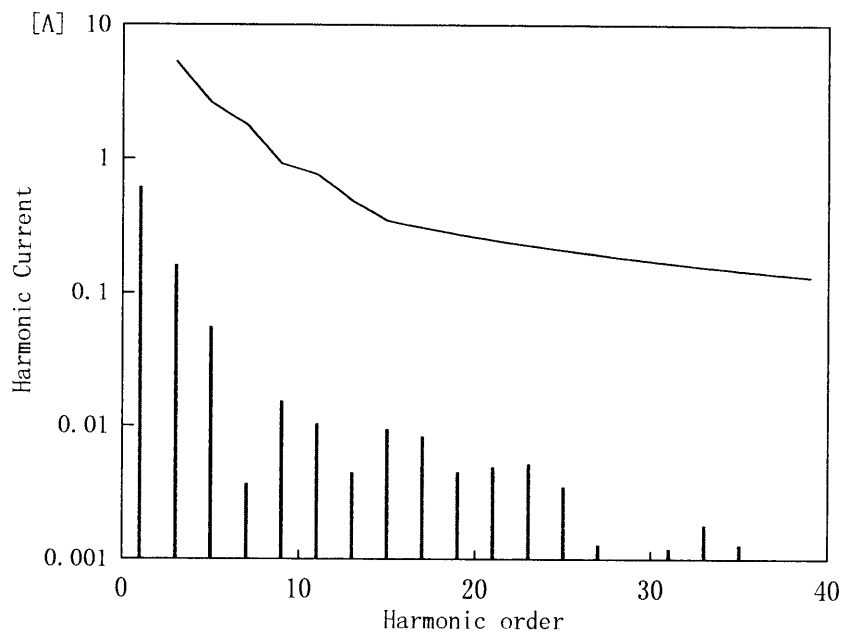
## 1. Input Current Waveform

— Input Current  
— Envelope of the input current to classify equipment as Class D  
クラスDの機器を決定するための入力電流包絡線

1 A/div



## 2. Harmonic Current



— Harmonic Current  
高調波電流  
— Limits for Class A equipment  
クラスAの機器に対する限度値

Conditions	Values
Input Voltage [V]	100.2
Input Current [A]	0.635
Active Power [W]	61.2
Apparent Power [VA]	63.6
Frequency [Hz]	60
Power Factor	0.962
Output Power [W]	42.5

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.61120
2	—	0.00060
3	5.27944	0.16100
4	—	0.00010
5	2.61677	0.05490
6	—	0.00000
7	1.76747	0.00370
8	—	0.00010
9	0.91816	0.01530
10	—	0.00010
11	0.75749	0.01050
12	—	0.00000
13	0.48204	0.00450
14	—	0.00010
15	0.34431	0.00950
16	—	0.00010
17	0.30380	0.00840
18	—	0.00010
19	0.27182	0.00460
20	—	0.00000
21	0.24594	0.00500
22	—	0.00000
23	0.22455	0.00530
24	—	0.00000
25	0.20659	0.00350
26	—	0.00010
27	0.19128	0.00130
28	—	0.00010
29	0.17809	0.00100
30	—	0.00010
31	0.16660	0.00120
32	—	0.00000
33	0.15651	0.00180
34	—	0.00000
35	0.14756	0.00130
36	—	0.00000
37	0.13959	0.00080
38	—	0.00000
39	0.13243	0.00090
40	—	0.00000

# COSEL

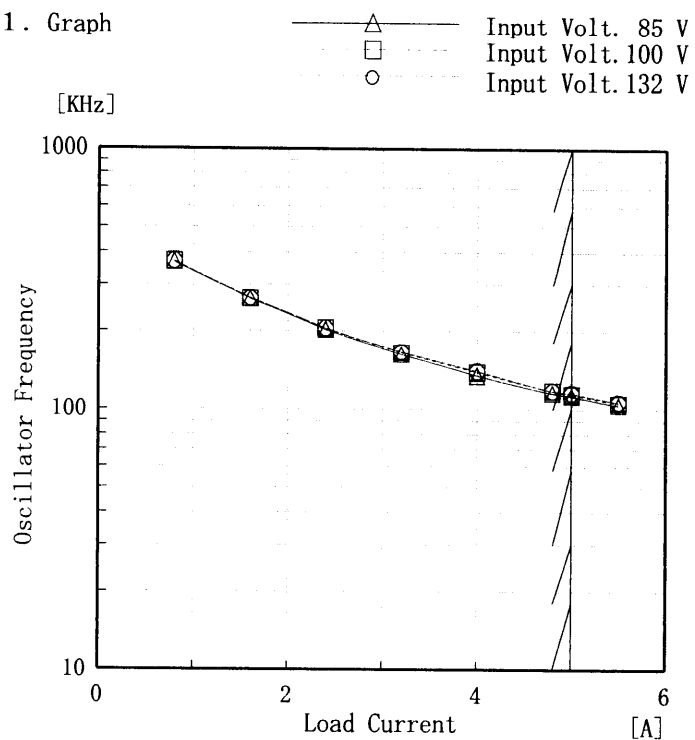
Model LEB100F-0512

Item Oscillator Frequency  
発振周波数

Object V1: +5.0V5A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



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

(注) 斜線は定格負荷電流範囲を示す。

## 2. Values

Load Current [A]	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**

Model	LEB100F-0512	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
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.

交流入力の一相について測定し、その大きい方を漏洩電流測定値とする。



# COSEL

Model	LEB100F-0512	Temperature	25℃
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

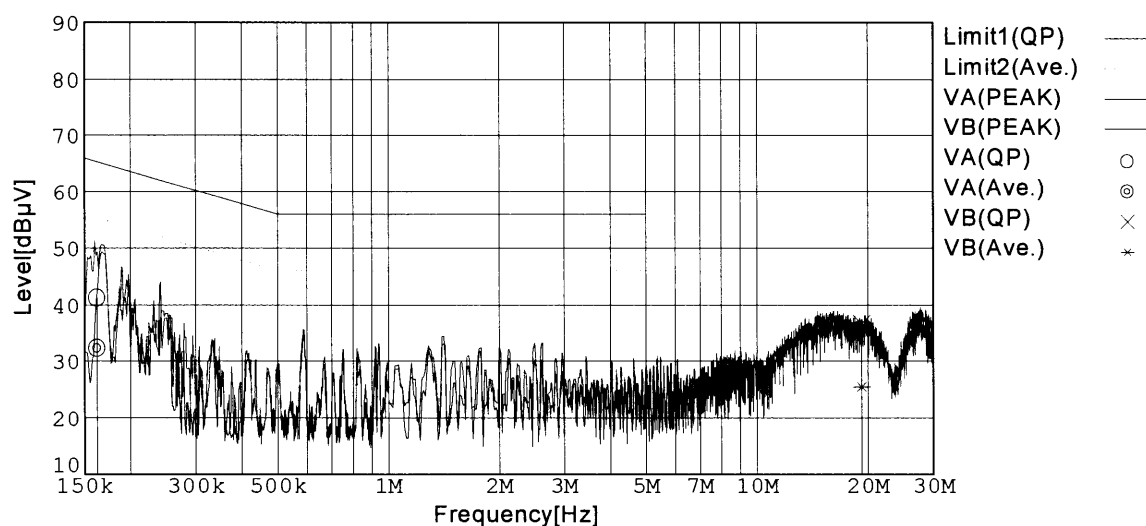
## 1. Graph

### Remarks

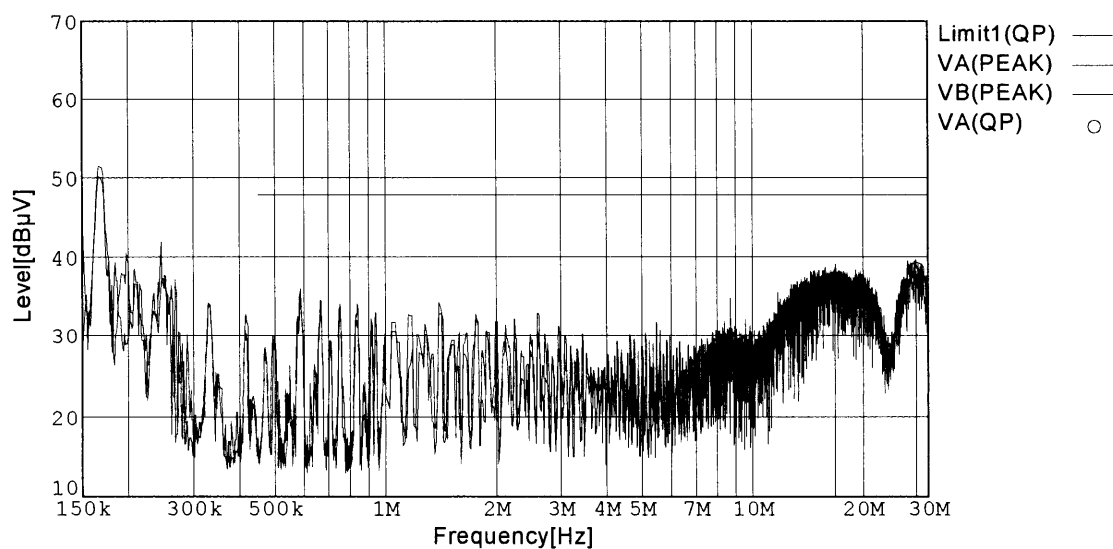
Input Volt.      100 V (VCCI Class B)  
                       120 V (FCC Class B)  
 Load              100 %

Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B



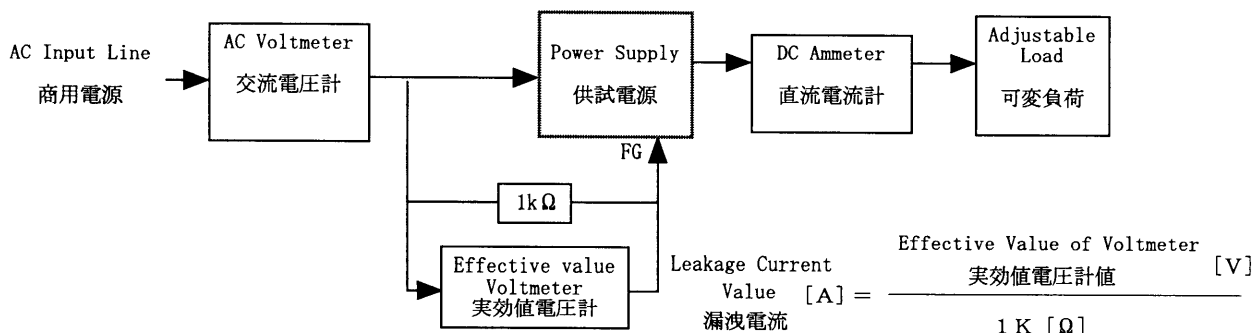
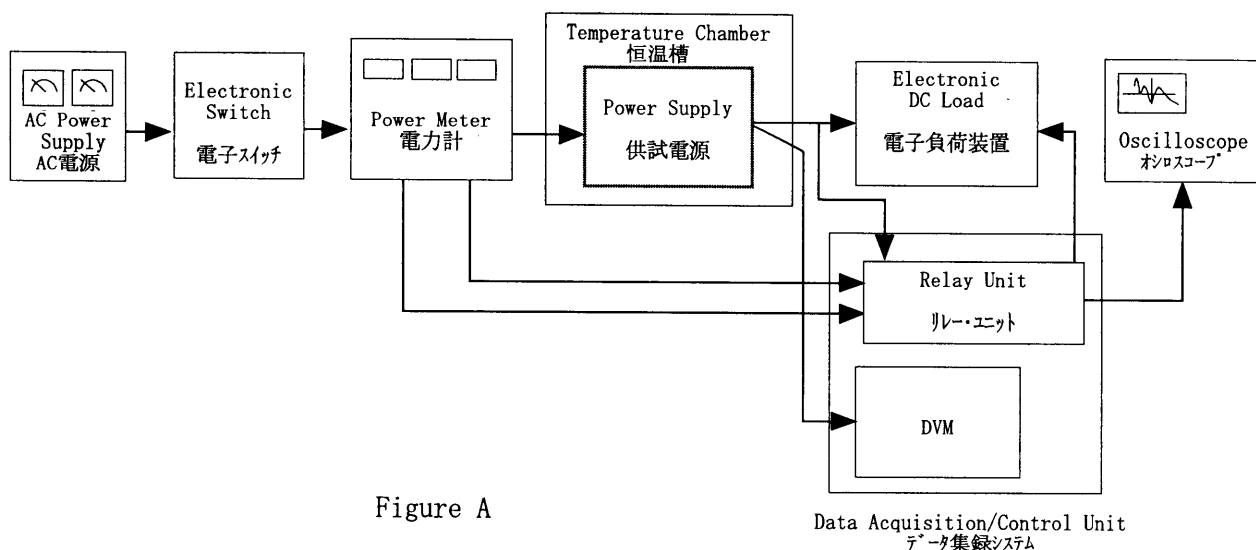


Figure B (DENTORI)

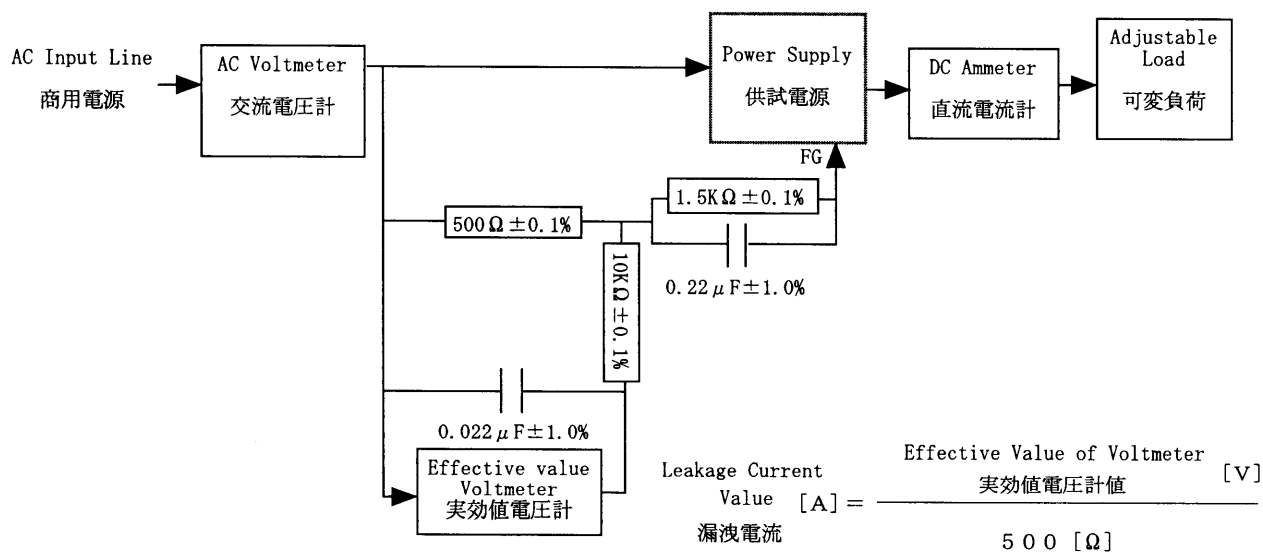


Figure B (IEC 60950)

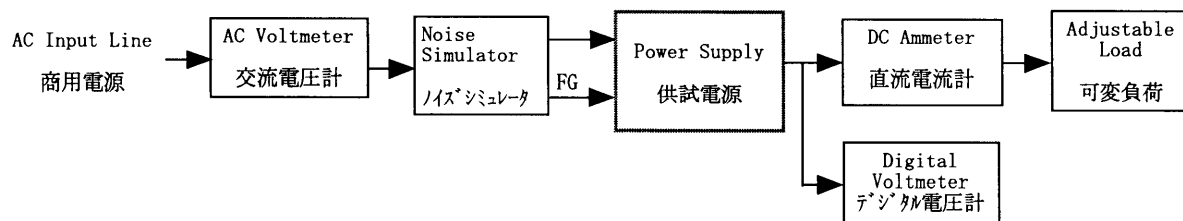


Figure C

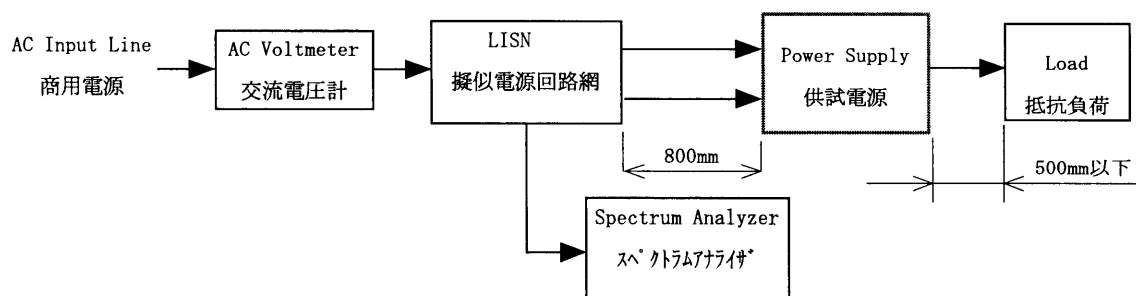


Figure D

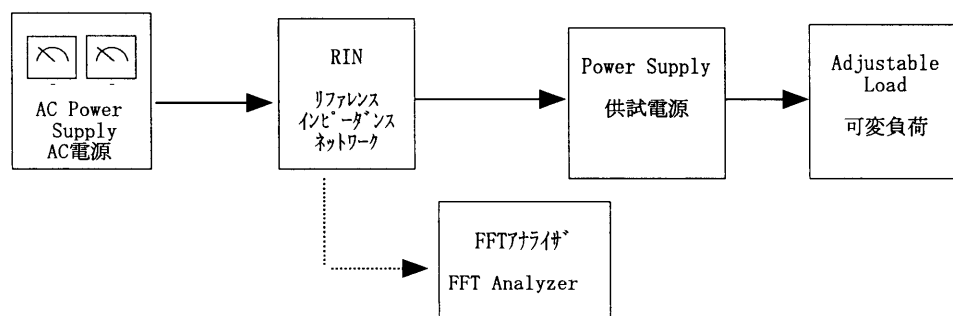


Figure E