



TEST DATA OF LEA75F-24 (200V INPUT)

Regulated DC Power Supply

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Design Manager

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コーセル株式会社
COSEL CO., LTD.

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Model		LEA75F-24		Temperature		25℃																																	
Item		Line Regulation 静的入力変動		Testing Circuitry		Figure A																																	
Object		+24V3.2A																																					
1. Graph				2. Values																																			
<div><div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div><div><div>[V]</div><div><div>Output Voltage</div><div><div>24.32</div><div>24.30</div><div>24.28</div><div>24.26</div><div>24.24</div><div>24.22</div><div>24.20</div><div>0</div></div></div><div><div>Input Voltage</div><div><div>0</div><div>160</div><div>180</div><div>200</div><div>220</div><div>240</div><div>260</div><div>280</div><div>300</div></div><div>[V]</div></div></div></div>				<table><tr><th rowspan="2">Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr><tr><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>150</td><td>24.250</td><td>24.247</td></tr><tr><td>160</td><td>24.250</td><td>24.247</td></tr><tr><td>170</td><td>24.250</td><td>24.247</td></tr><tr><td>180</td><td>24.250</td><td>24.247</td></tr><tr><td>200</td><td>24.250</td><td>24.247</td></tr><tr><td>220</td><td>24.250</td><td>24.247</td></tr><tr><td>240</td><td>24.250</td><td>24.247</td></tr><tr><td>264</td><td>24.250</td><td>24.247</td></tr><tr><td>280</td><td>24.250</td><td>24.247</td></tr></table>				Input Voltage [V]	Load 50%	Load 100%	Output Volt. [V]	Output Volt. [V]	150	24.250	24.247	160	24.250	24.247	170	24.250	24.247	180	24.250	24.247	200	24.250	24.247	220	24.250	24.247	240	24.250	24.247	264	24.250	24.247	280	24.250	24.247
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Model		LEA75F-24	
Item		Input Power (by Load Current) 入力電力 (負荷特性)	
Output			

1. Graph

—△— Input Volt. 170V

- -□- - Input Volt. 200V

- -○- - Input Volt. 264V

[W]

200

150

100

50

0

0

1

2

3

4

Input Power

Load Current

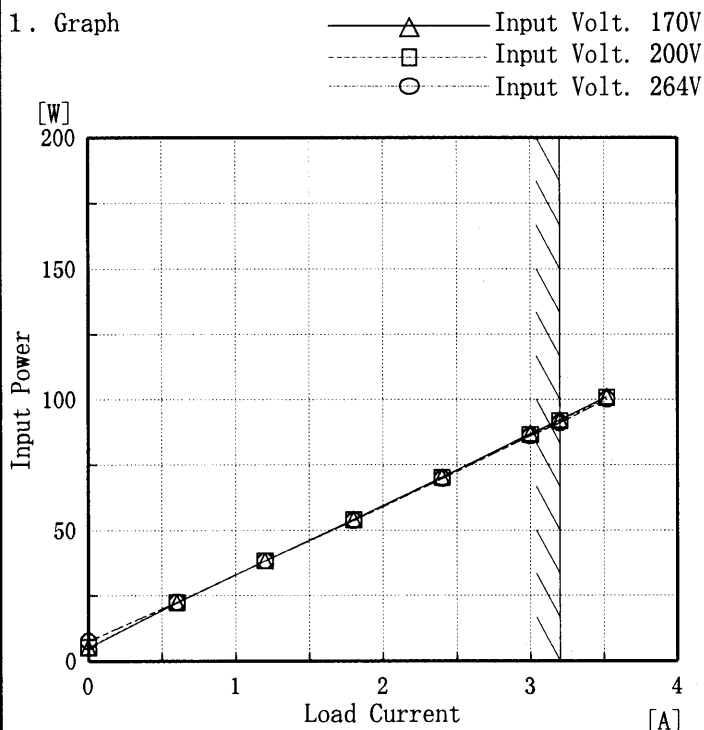
[A]

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	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	5.00	5.20	7.50
0.60	22.30	22.30	22.50
1.20	38.40	38.30	38.30
1.80	54.20	54.00	53.80
2.40	70.40	70.10	69.80
3.00	86.90	86.60	86.10
3.20	92.20	91.80	91.20
3.52	101.20	100.70	100.10
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



COSEL

Model		LEA75F-24		Temperature		25℃																															
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)		Testing Circuitry		Figure A																															
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[%]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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COSEL

Model		LEA75F-24	
Item	Power Factor (by Input Voltage) 力率 (入力電圧特性)		Temperature 25℃ Testing Circuitry Figure A
Object			

1. Graph

□

load 50%

△

load 100%

Power Factor

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]	load 50%	load 100%
	Power Factor	Power Factor
150	0.94	0.97
160	0.93	0.97
170	0.92	0.96
180	0.91	0.96
200	0.90	0.95
220	0.87	0.93
240	0.85	0.92
264	0.83	0.90
280	0.62	0.75

COSEL

Model		LEA75F-24		Temperature Testing Circuitry	25℃ Figure A
Item		Power Factor (by Load Current) 力率 (負荷電流特性)			
Output		_____			

1. Graph

—△—

Input Volt. 170V

---□---

Input Volt. 200V

---○---

Input Volt. 264V

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

0

1

2

3

4

Load Current

[A]

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	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.56	0.49	0.42
0.60	0.84	0.79	0.69
1.20	0.90	0.87	0.79
1.80	0.93	0.90	0.84
2.40	0.95	0.93	0.87
3.00	0.96	0.94	0.90
3.20	0.96	0.95	0.90
3.52	0.97	0.95	0.91
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		LEA75F-24	
Item		Hold-Up Time 出力保持時間	
Object		+24V3.2A	
1. Graph		2. Values	

△

Load 50%

□

Load 100%

[mS]

1000

100

10

1

0

160

180

200

220

240

260

280

300

Input Voltage

[V]

Hold-Up Time

1000

100

10

1

0

160

180

200

220

240

260

280

300

Input Voltage

[V]

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]	Load 50%	Load 100%
	Hold-Up Time [mS]	Hold-Up Time [mS]
150	88	41
160	89	41
170	90	42
180	90	42
200	91	43
220	92	43
240	92	43
264	93	44
280	94	44

COSEL

Model LEA75F-24

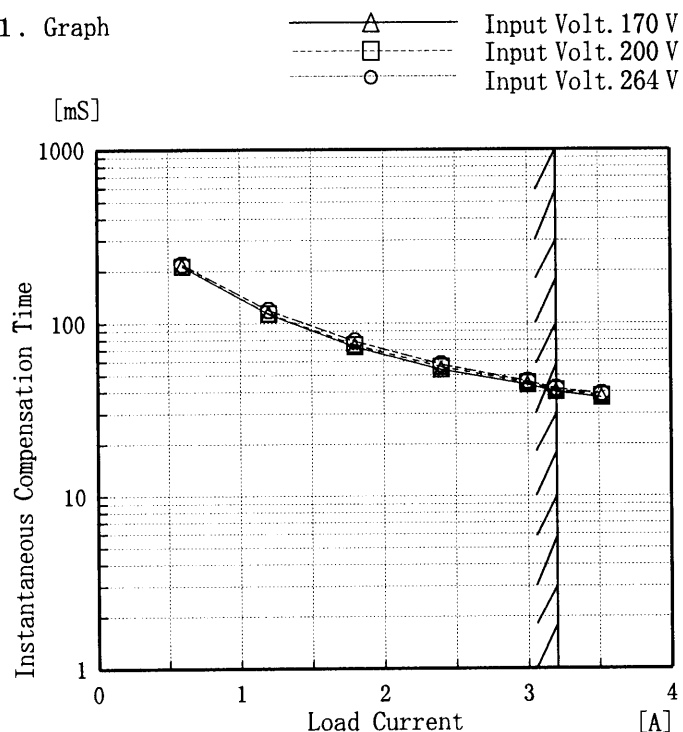
Item Instantaneous Interruption Compensation
瞬時停電保障

Object +24V3.2A

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 load current.

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。

(注) 斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Time [mS]		
0.00	—	—	—
0.60	213	214	219
1.20	113	114	119
1.80	73	75	79
2.40	54	56	58
3.00	44	45	46
3.20	40	41	42
3.52	37	38	39
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		LEA75F-24	
Item		Load Regulation 静的負荷変動	
Object		+24V3.2A	

1. Graph

△

Input Volt. 170V

□

Input Volt. 200V

○

Input Volt. 264V

[V]

24.39

24.35

24.31

24.27

24.23

24.19

24.15

0

Output Voltage

0

1

2

3

4

Load Current

[A]

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]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
0.00	24.260	24.260	24.260
0.60	24.253	24.253	24.252
1.20	24.252	24.251	24.251
1.80	24.251	24.250	24.250
2.40	24.250	24.249	24.249
3.00	24.249	24.248	24.248
3.20	24.248	24.248	24.248
3.52	24.248	24.248	24.247
—	—	—	—
—	—	—	—

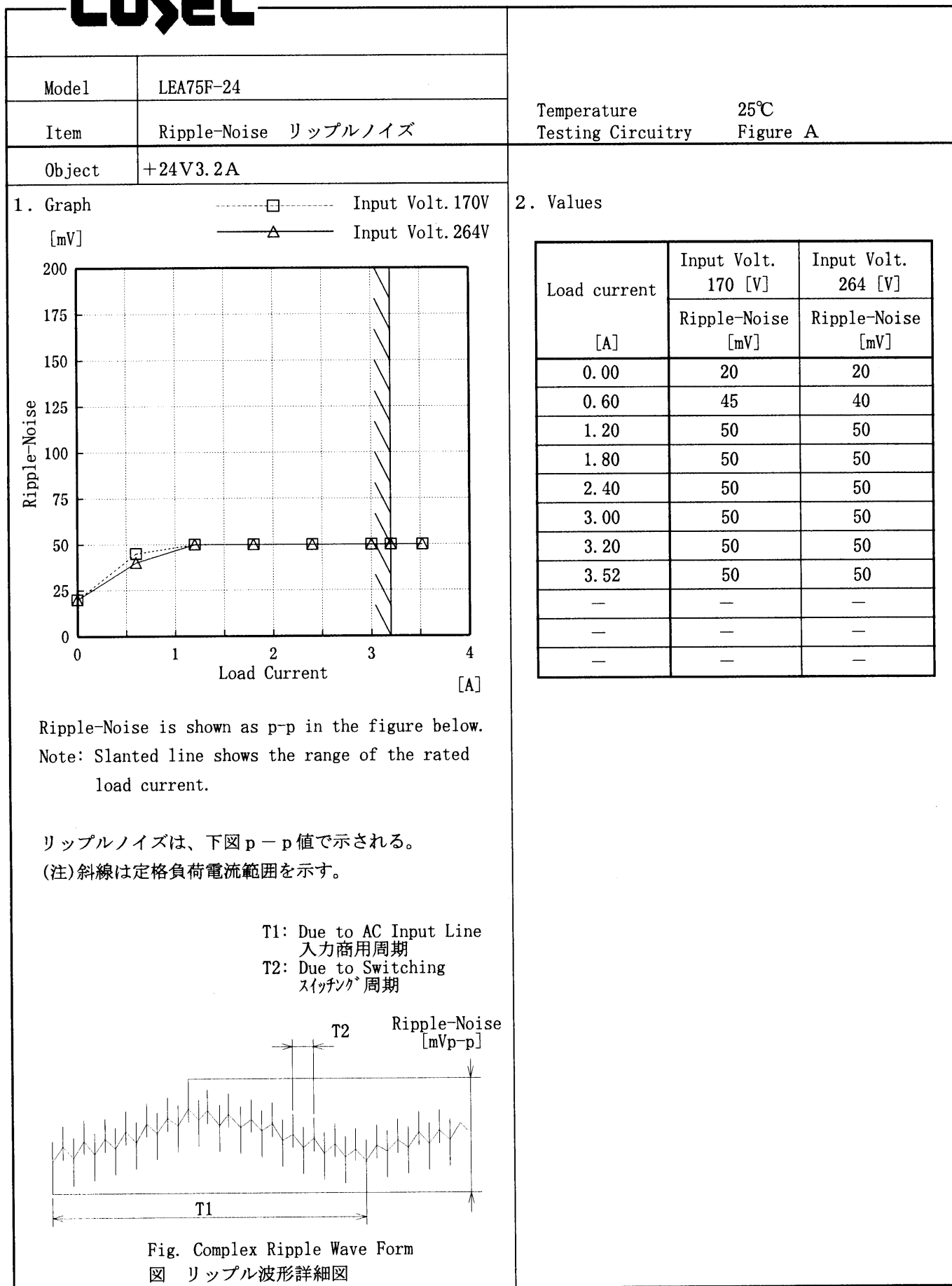
Note: Slanted line shows the range of the rated load current.

(注)斜線は定格負荷電流範囲を示す。

COSEL

Model		LEA75F-24	Temperature		25°C
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry		Figure A
Object		+24V3.2A			
1. Graph		<div> <div>-----□-----</div> <div>-----△-----</div> </div> <div> <div>Input Volt. 170V</div> <div>Input Volt. 264V</div> </div>	2. Values		
[mV]					
Ripple Voltage					
150					
125					
100					
75					
50					
25					
0					
0					
1					
2					
3					
4					
Load Current		[A]			
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



COSEL

Model		LEA75F-24		Temperature25℃ Testing CircuitryFigure A
Item		Overcurrent Protection 過電流保護		
Object		+24V3.2A		
1. Graph				
[V]		<div><div></div>Input Volt.170 V</div> <div><div></div>Input Volt.200 V</div> <div><div></div>Input Volt.264 V</div>		
<div>Output Voltage</div> <div>[V]</div>				
Load Current		[A]		
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。				
14.4V以下は間欠状態。				
2. Values				
Output Voltage	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	
	Load Current [A]	Load Current [A]	Load Current [A]	
24.00	3.94	3.93	3.94	
22.80	3.95	3.95	3.95	
21.60	3.97	3.97	3.97	
19.20	4.02	4.02	4.02	
16.80	4.07	4.06	4.06	
14.40	4.09	4.09	4.09	
—	—	—	—	
—	—	—	—	
—	—	—	—	
—	—	—	—	
—	—	—	—	
—	—	—	—	

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。

14.4V以下は間欠状態。

COSEL

Model		LEA75F-24	
Item		Overvoltage Protection 過電圧保護	
Object		+24V3.2A	

1. Graph

—△—

Input Volt. 170 V

---□---

Input Volt. 200 V

---○---

Input Volt. 264 V

[V]

Operating Point

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 Temp.	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
[°C]	Operating Point [V]		
-20	29.6	29.6	29.6
-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
60	31.3	31.3	31.3
—	—	—	—

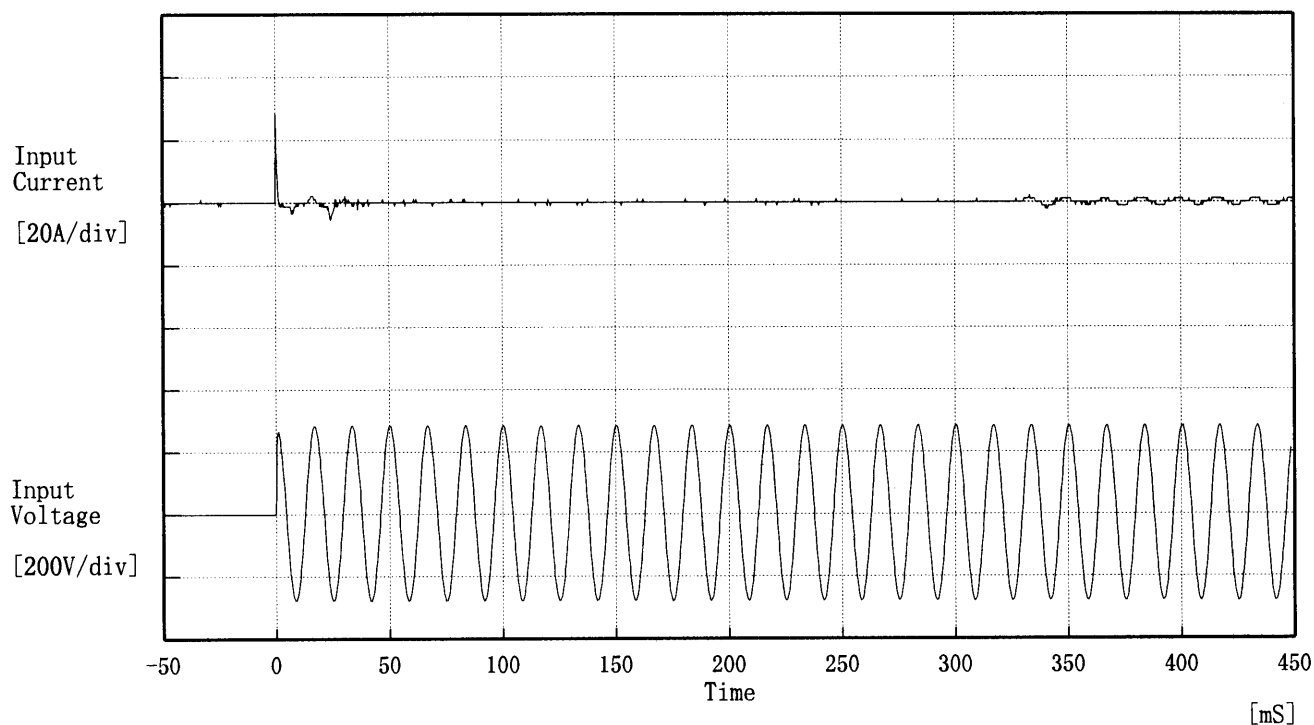
Testing Circuitry Figure A

2. Values

Ambient Temp. [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
Operating Point [V]			
-20	29.6	29.6	29.6
-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
60	31.3	31.3	31.3
—	—	—	—

COSEL

Model	LEA75F-24	Temperature 25℃ Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 200 V

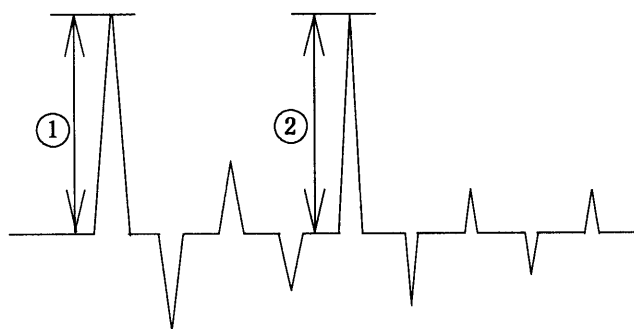
Frequency 60 Hz

Load 100 %

Inrush Current

① 28.04 [A]

② 2.24 [A]



COSEL

Model	LEA75F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+24V3.2A	

Input Volt. 200 V

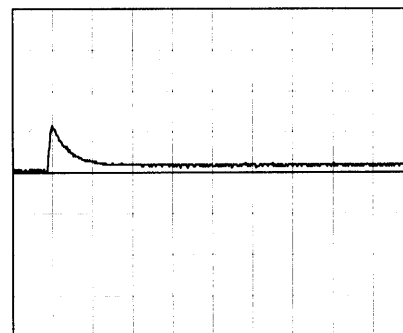
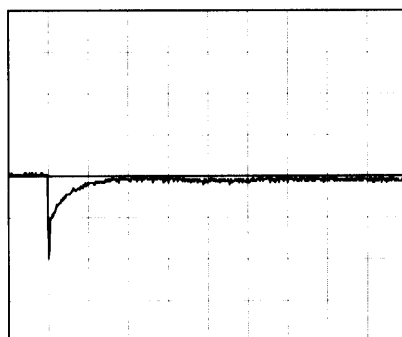
Cycle 1000 mS

Load Current



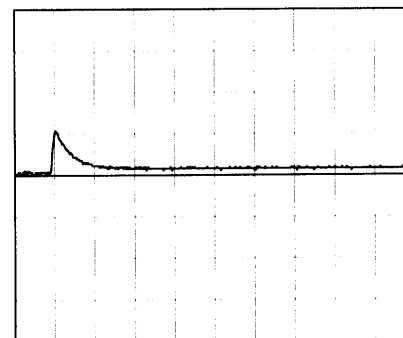
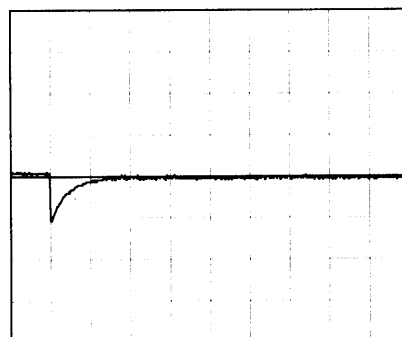
Min. Load ←→

Load 100 %



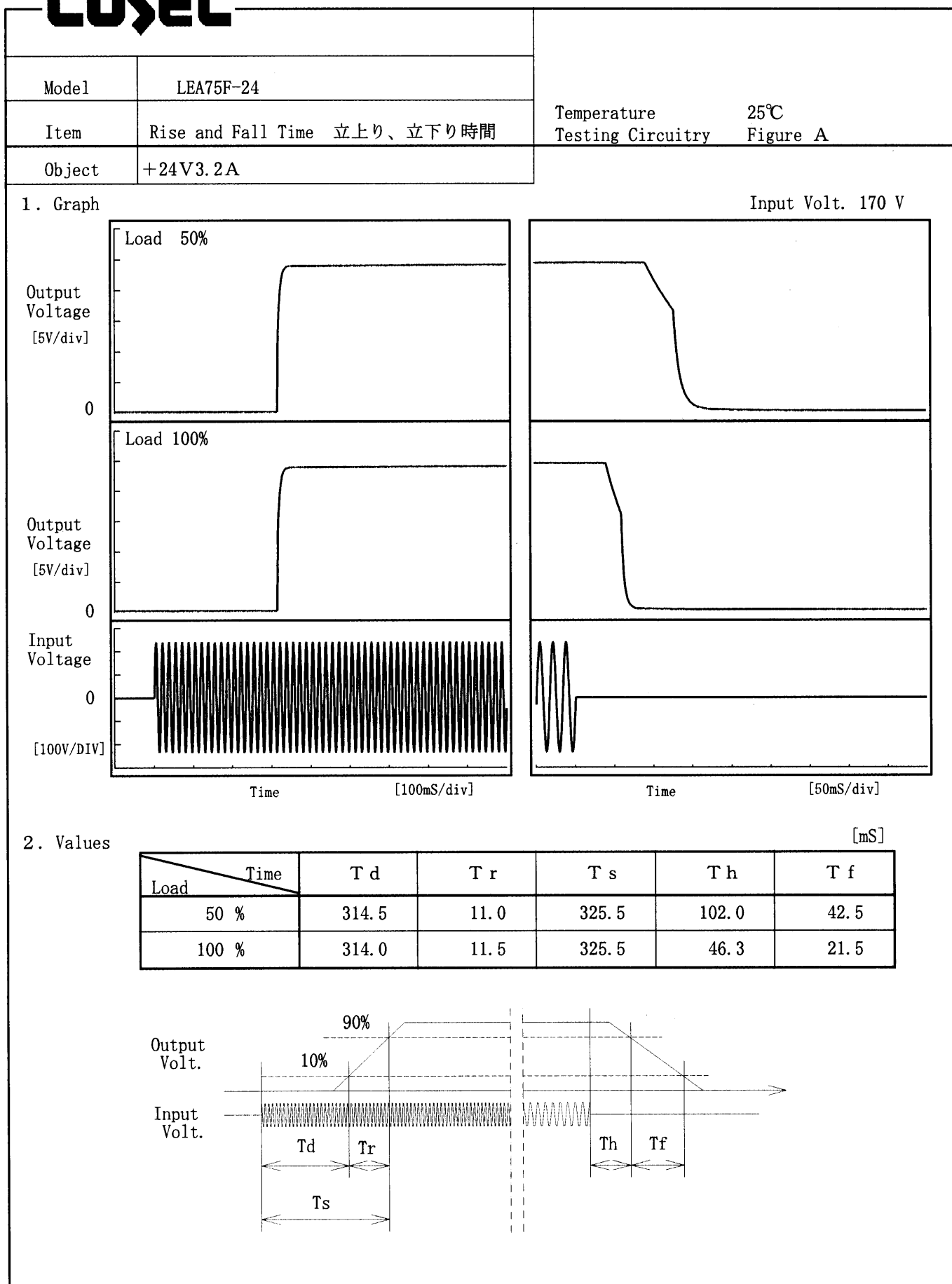
Min. Load ←→

Load 50 %



100 mV/div

10 ms/div

COSEL

COSEL

Model LEA75F-24

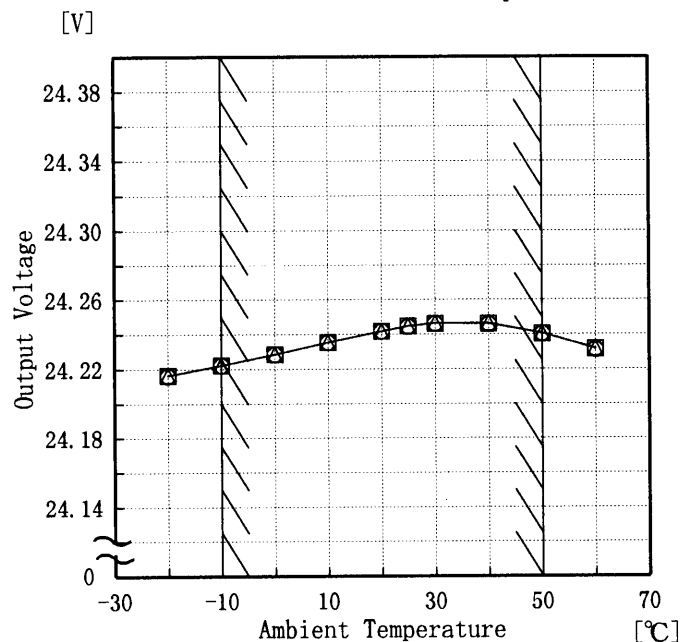
Item Ambient Temperature Drift
周囲温度変動

Object +24V3.2A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
 - - -□- - - Input Volt. 200V
 - - -○- - - Input Volt. 264V



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

Temperature [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	24.216	24.216	24.216
-10	24.222	24.222	24.222
0	24.229	24.229	24.228
10	24.235	24.235	24.235
20	24.242	24.242	24.242
25	24.245	24.245	24.244
30	24.246	24.246	24.246
40	24.246	24.246	24.246
50	24.241	24.240	24.240
60	24.232	24.232	24.231
—	—	—	—

COSEL

Model		LEA75F-24																																							
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object		+24V3.2A																																							
1. Graph		<div> <div> <div>□</div> <div>Load 50%</div> </div> <div> <div>△</div> <div>Load 100%</div> </div> </div> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注)斜線は定格周囲温度範囲を示す。</p>																																							
2. Values		<table> <tr> <th>Ambient Temp.</th><th>Load 50%</th><th>Load 100%</th></tr> <tr> <th>[°C]</th><th>Input Volt. [V]</th><th>Input Volt. [V]</th></tr> <tr><td>-20</td><td>72</td><td>73</td></tr> <tr><td>-10</td><td>72</td><td>73</td></tr> <tr><td>0</td><td>72</td><td>73</td></tr> <tr><td>10</td><td>72</td><td>73</td></tr> <tr><td>20</td><td>72</td><td>73</td></tr> <tr><td>25</td><td>72</td><td>73</td></tr> <tr><td>30</td><td>72</td><td>73</td></tr> <tr><td>40</td><td>72</td><td>73</td></tr> <tr><td>50</td><td>72</td><td>73</td></tr> <tr><td>60</td><td>72</td><td>73</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </table>	Ambient Temp.	Load 50%	Load 100%	[°C]	Input Volt. [V]	Input Volt. [V]	-20	72	73	-10	72	73	0	72	73	10	72	73	20	72	73	25	72	73	30	72	73	40	72	73	50	72	73	60	72	73	—	—	—
Ambient Temp.	Load 50%	Load 100%																																							
[°C]	Input Volt. [V]	Input Volt. [V]																																							
-20	72	73																																							
-10	72	73																																							
0	72	73																																							
10	72	73																																							
20	72	73																																							
25	72	73																																							
30	72	73																																							
40	72	73																																							
50	72	73																																							
60	72	73																																							
—	—	—																																							

COSEL

Model		LEA75F-24	
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	
Object		+24V3.2A	

1. Graph

-----□-----

Load 50%

——△——

Load 100%

[mV]

150

125

100

75

50

25

0

Ripple Voltage

-30

-10

10

30

50

70

Ambient Temperature

[°C]

Input Volt. 200 V

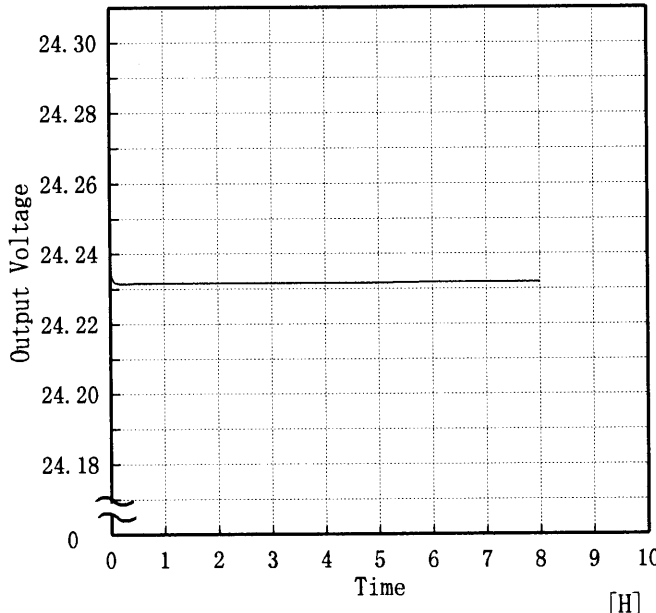
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	65	65
-10	45	45
0	35	35
10	30	30
20	30	30
25	25	25
30	25	25
40	20	20
50	20	20
60	20	20
—	—	—

COSEL

COSEL																									
Model	LEA75F-24																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25 ℃																						
Object	+24V3.2A	Testing Circuitry	Figure A																						
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Input Volt. 200V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>24.239</td></tr><tr><td>0.5</td><td>24.232</td></tr><tr><td>1.0</td><td>24.232</td></tr><tr><td>2.0</td><td>24.232</td></tr><tr><td>3.0</td><td>24.232</td></tr><tr><td>4.0</td><td>24.232</td></tr><tr><td>5.0</td><td>24.232</td></tr><tr><td>6.0</td><td>24.232</td></tr><tr><td>7.0</td><td>24.232</td></tr><tr><td>8.0</td><td>24.232</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	24.239	0.5	24.232	1.0	24.232	2.0	24.232	3.0	24.232	4.0	24.232	5.0	24.232	6.0	24.232	7.0	24.232	8.0	24.232
Time since start [H]	Output Voltage [V]																								
0.0	24.239																								
0.5	24.232																								
1.0	24.232																								
2.0	24.232																								
3.0	24.232																								
4.0	24.232																								
5.0	24.232																								
6.0	24.232																								
7.0	24.232																								
8.0	24.232																								

COSEL

Model	LEA75F-24	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+24V3.2A	

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 : 170~264 V

Load Current : 0.00~3.2 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、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 : 170~264 V

負荷電流 : 0.00~3.2 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) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ratio) [%]
Maximum Voltage	25	264	0.00	24.260	±20	±0.1
Minimum Voltage	-10	264	3.20	24.222		

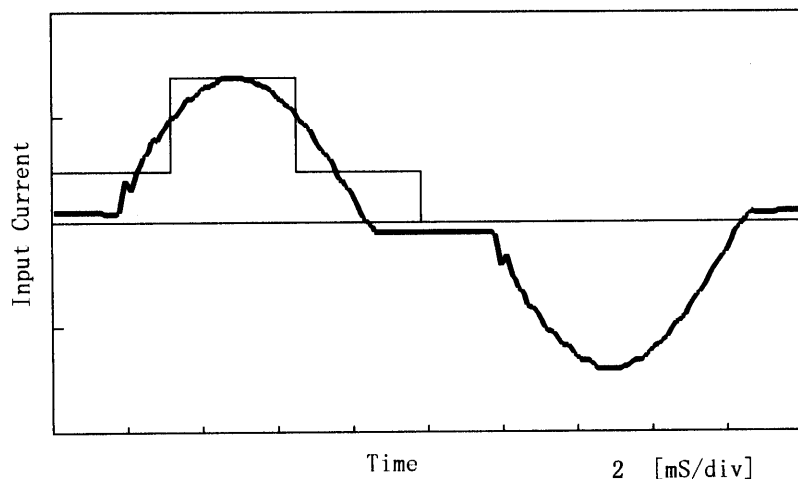
COSEL

Model	LEA75F-24	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

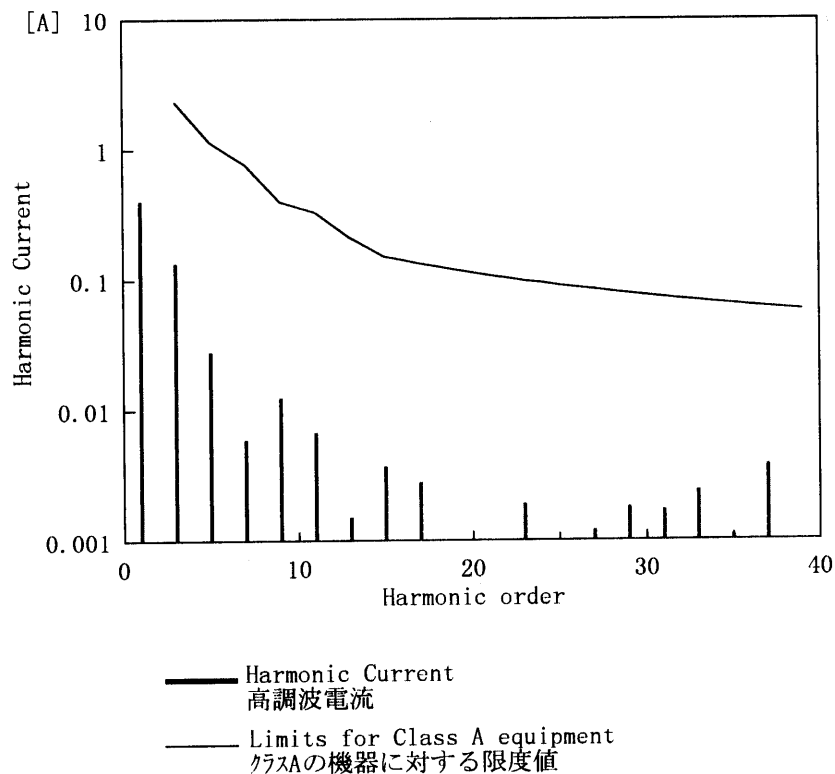
1. Input Current Waveform

— 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

0.5 A/div



2. Harmonic Current



Conditions	Values
Input Voltage [V]	230.4
Input Current [A]	0.43
Active Power [W]	92.4
Apparent Power[VA]	99.2
Frequency [Hz]	50
Power Factor	0.931
Output Power [W]	76.8

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.40690
2	—	0.00030
3	2.29601	0.13520
4	—	0.00010
5	1.13802	0.02820
6	—	0.00000
7	0.76866	0.00590
8	—	0.00000
9	0.39931	0.01240
10	—	0.00010
11	0.32943	0.00670
12	—	0.00010
13	0.20964	0.00150
14	—	0.00010
15	0.14974	0.00370
16	—	0.00000
17	0.13212	0.00280
18	—	0.00000
19	0.11822	0.00010
20	—	0.00010
21	0.10696	0.00090
22	—	0.00000
23	0.09766	0.00190
24	—	0.00010
25	0.08984	0.00070
26	—	0.00010
27	0.08319	0.00120
28	—	0.00000
29	0.07745	0.00180
30	—	0.00010
31	0.07245	0.00170
32	—	0.00000
33	0.06806	0.00240
34	—	0.00010
35	0.06417	0.00110
36	—	0.00000
37	0.06071	0.00380
38	—	0.00000
39	0.05759	0.00100
40	—	0.00010

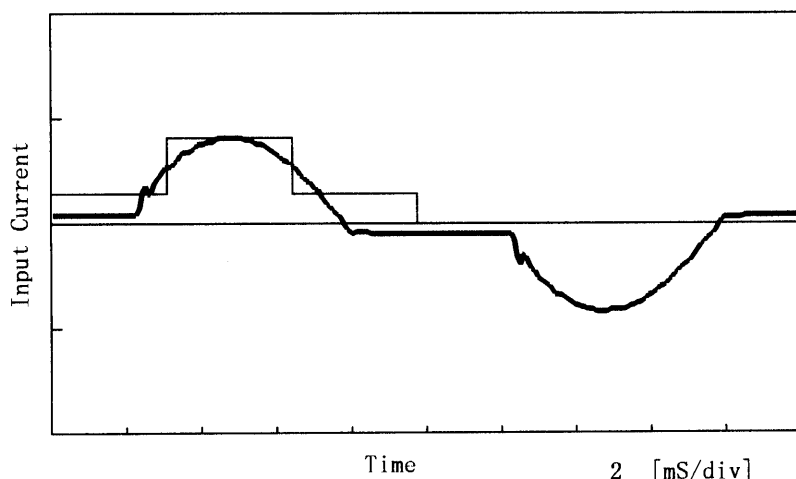
COSEL

Model	LEA75F-24	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

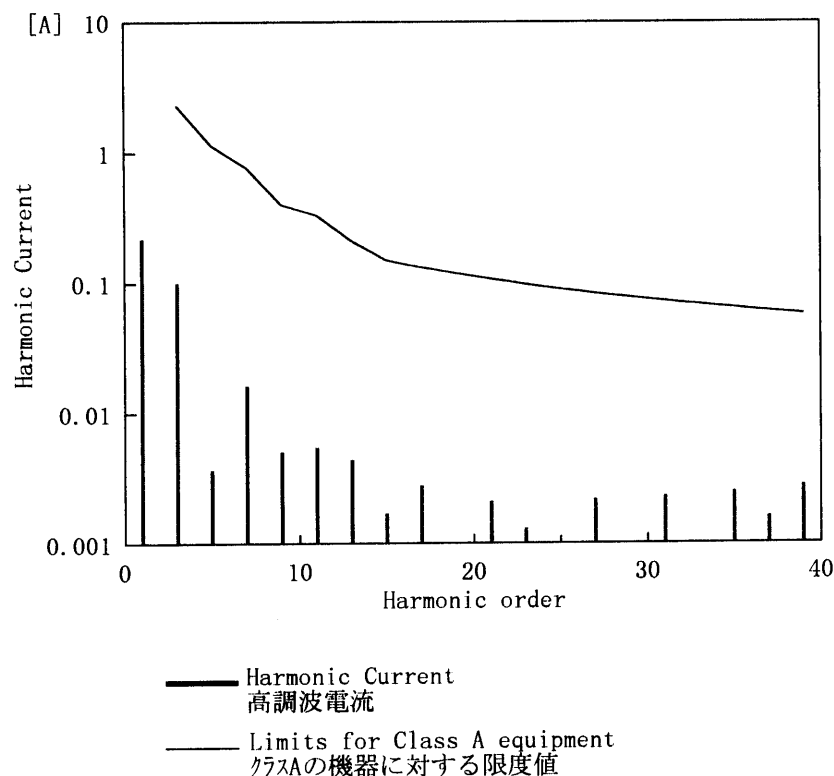
1. Input Current Waveform

— 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

0.5 A/div



2. Harmonic Current



Conditions	Values
Input Voltage [V]	230.5
Input Current [A]	0.242
Active Power [W]	49
Apparent Power [VA]	56
Frequency [Hz]	50
Power Factor	0.875
Output Power [W]	38.4

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.21980
2	—	0.00030
3	2.29501	0.10030
4	—	0.00000
5	1.13753	0.00370
6	—	0.00000
7	0.76833	0.01630
8	—	0.00010
9	0.39913	0.00510
10	—	0.00010
11	0.32928	0.00550
12	—	0.00000
13	0.20954	0.00440
14	—	0.00010
15	0.14967	0.00170
16	—	0.00010
17	0.13207	0.00280
18	—	0.00010
19	0.11816	0.00080
20	—	0.00000
21	0.10691	0.00210
22	—	0.00000
23	0.09761	0.00130
24	—	0.00010
25	0.08980	0.00080
26	—	0.00010
27	0.08315	0.00220
28	—	0.00010
29	0.07742	0.00050
30	—	0.00010
31	0.07242	0.00230
32	—	0.00000
33	0.06803	0.00070
34	—	0.00010
35	0.06415	0.00250
36	—	0.00010
37	0.06068	0.00160
38	—	0.00000
39	0.05757	0.00280
40	—	0.00000

COSEL

COSEL

Model	LEA75F-24
Item	Condensation 結露特性
Object	+24V3.2A

Testing Circuitry	Figure A
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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

Item	Data	Testing Conditions
Output Voltage [V]	24.249	Input Volt.：200V, Load Current:3.2A
Line Regulation [mV]	1	Input Volt.：170～264V, Load Current:3.2A
Load Regulation [mV]	11	Input Volt.：200V, Load Current:0.0～3.2A

COSEL

Model	LEA75F-24	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	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.32	0.44	0.52

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		LEA75F-24	Temperature 25°C Testing Circuitry Figure C
Item		Line Noise Tolerance 入力雑音耐量	
Object		+24V3.2A	

1. Results

Pulse Width [n S]	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
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

Conditions

Input Voltage :200 V
 Pulse Voltage :2000 V
 Pulse Cycle :10 mS
 Pulse Input Duration:1 min. or more
 Load :100 %

COSEL

Model	LEA75F-24	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

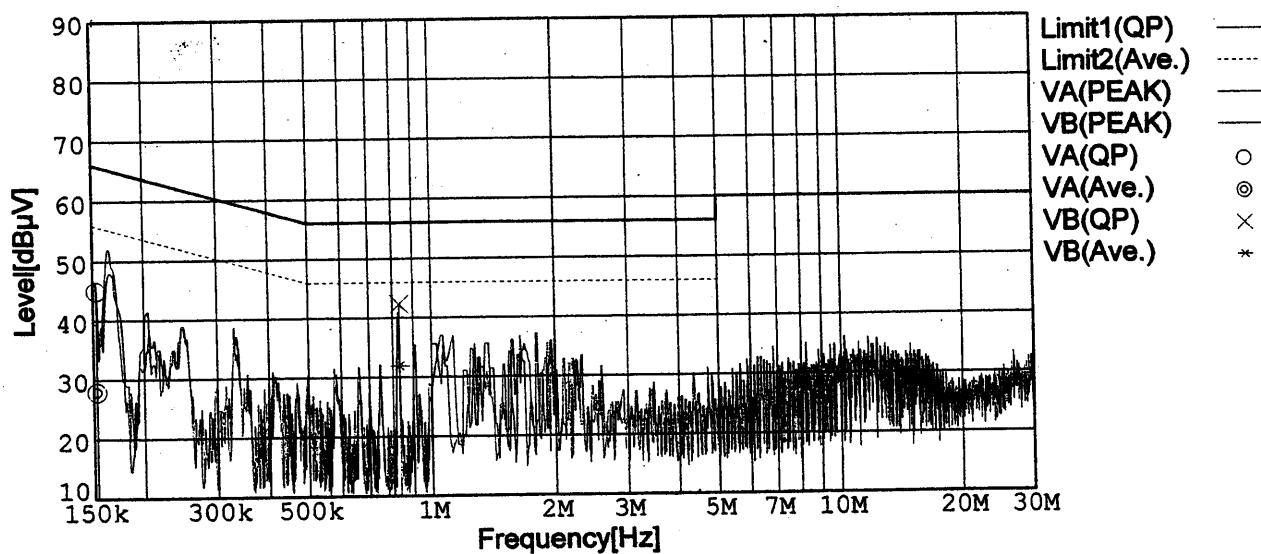
Remarks

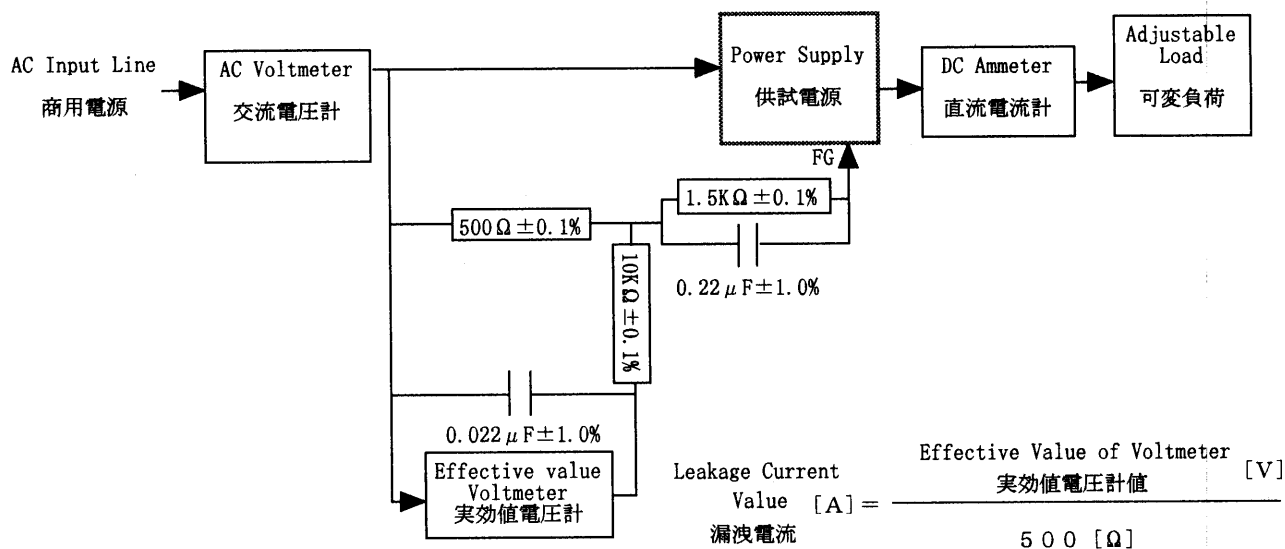
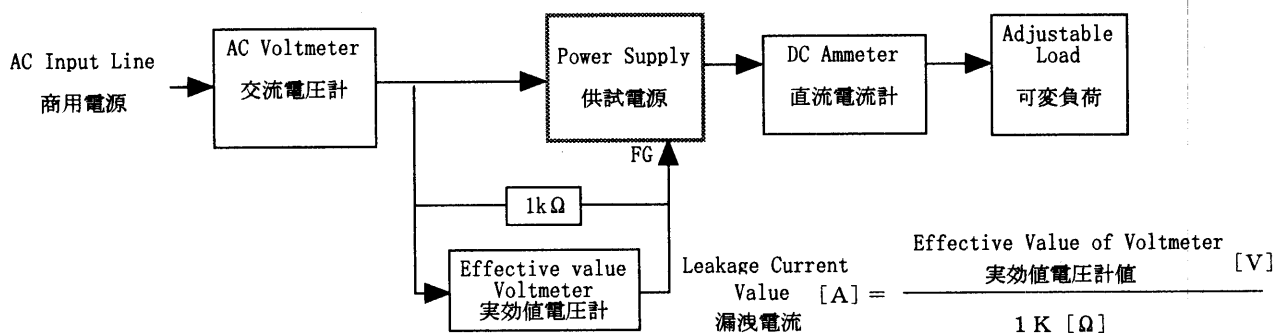
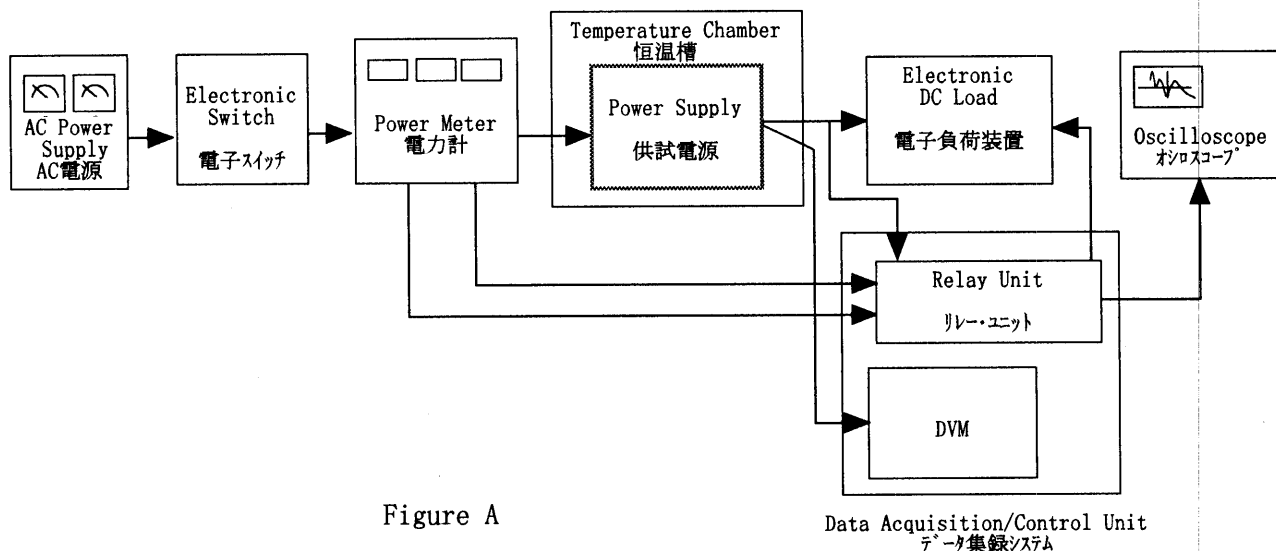
Input Volt. 230V (CISPR Pub22 Class B)

Load 100 %

Limit1: [CISPR Pub22] Class B(QP)

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





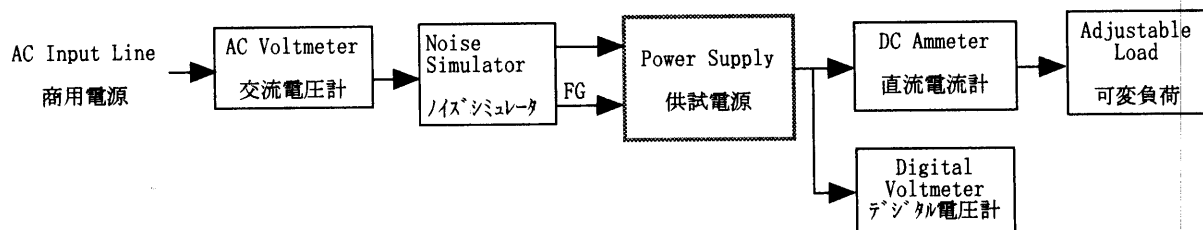


Figure C

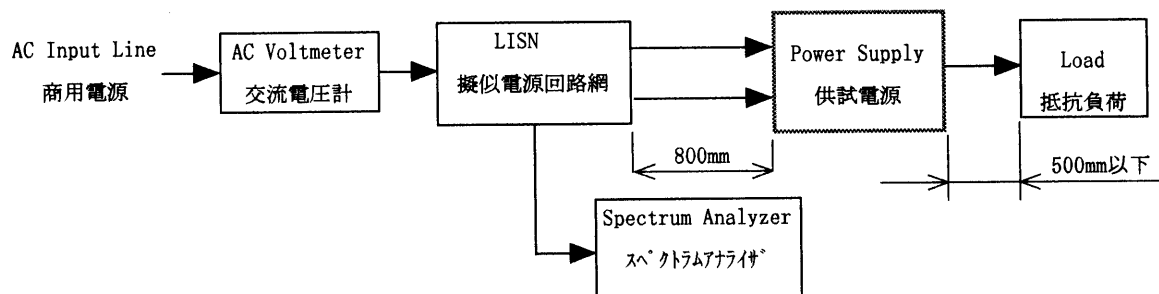


Figure D

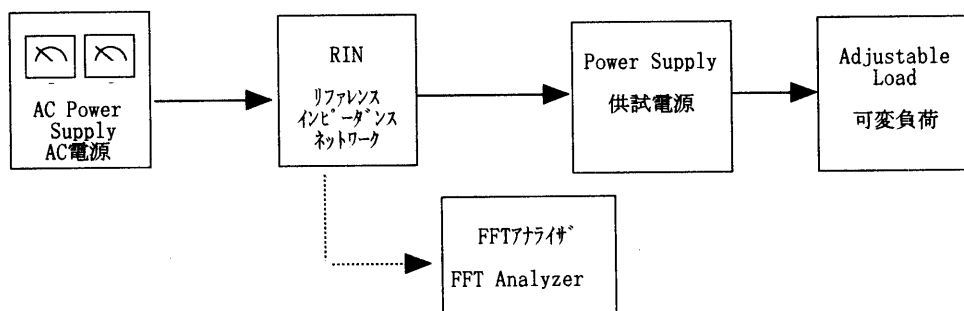


Figure E