



TEST DATA OF LDA75F-24

(200V INPUT)

Regulated DC Power Supply

Aug. 20. 1999

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コーセル株式会社
COSEL CO., LTD.

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(Final Page 26)

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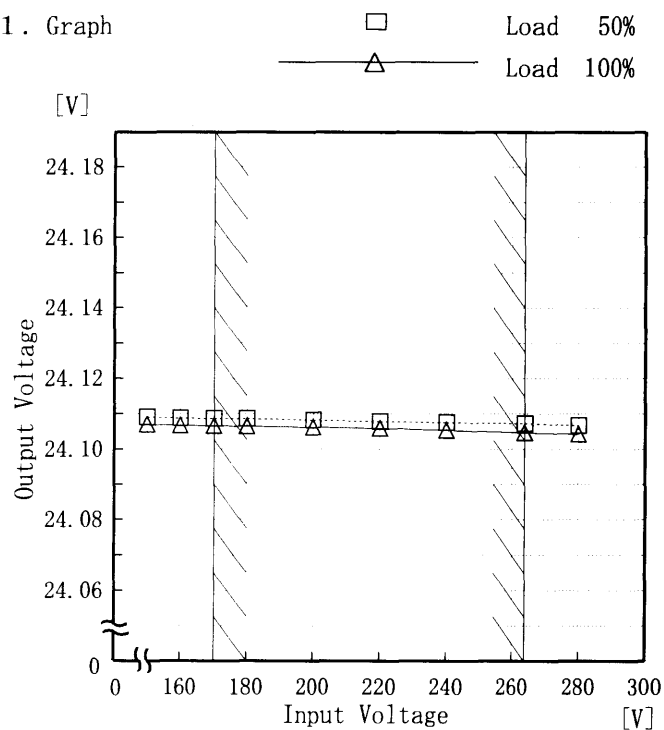
Model LDA75F-24

Item Line Regulation 静的入力変動

Object +24.0V3.2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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]	Output Voltage [V]	
	Load 50%	Load 100%
150	24.109	24.107
160	24.109	24.107
170	24.109	24.107
180	24.109	24.107
200	24.108	24.106
220	24.108	24.106
240	24.108	24.105
264	24.107	24.105
280	24.107	24.104

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Model		LDA75F-24		Temperature		25℃																																																								
Item		Input Current (by Load Current) 入力電流（負荷特性）		Testing Circuitry		Figure A																																																								
Output		_____																																																												
1. Graph				2. Values																																																										
<div><div>—△—</div><div>—□—</div><div>—○—</div></div> <div><div>Input Volt. 170V</div><div>Input Volt. 200V</div><div>Input Volt. 264V</div></div> <p>Note: Slanted line shows the range of the rated load current</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.00</td><td>0.073</td><td>0.074</td><td>0.080</td></tr><tr><td>0.60</td><td>0.269</td><td>0.252</td><td>0.233</td></tr><tr><td>1.20</td><td>0.442</td><td>0.403</td><td>0.353</td></tr><tr><td>1.80</td><td>0.627</td><td>0.563</td><td>0.482</td></tr><tr><td>2.40</td><td>0.816</td><td>0.728</td><td>0.614</td></tr><tr><td>3.00</td><td>1.008</td><td>0.895</td><td>0.748</td></tr><tr><td>3.20</td><td>1.075</td><td>0.953</td><td>0.796</td></tr><tr><td>3.52</td><td>1.171</td><td>1.042</td><td>0.867</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Input Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	0.073	0.074	0.080	0.60	0.269	0.252	0.233	1.20	0.442	0.403	0.353	1.80	0.627	0.563	0.482	2.40	0.816	0.728	0.614	3.00	1.008	0.895	0.748	3.20	1.075	0.953	0.796	3.52	1.171	1.042	0.867	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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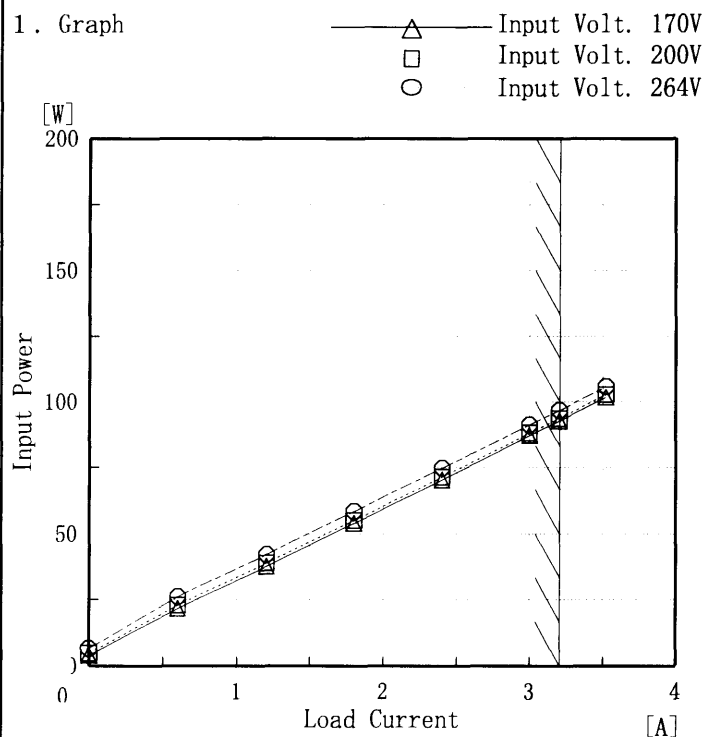
Model LDA75F-24

Item Input Power (by Load Current)
入力電力 (負荷特性)

Output

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]	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	4.00	4.70	6.40
0.60	21.60	22.80	26.10
1.20	37.70	38.90	42.10
1.80	54.00	55.10	58.50
2.40	70.40	71.50	74.90
3.00	87.20	88.20	91.40
3.20	92.70	93.60	96.80
3.52	101.70	102.70	105.80
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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Model		LDA75F-24	Temperature Testing Circuitry	25°C Figure A																																
Item		Efficiency 効率																																		
Object																																				
1. Graph			2. Values																																	
<div><div>□ Load 50%</div><div>△ Load 100%</div></div> <p>Efficiency [%]</p> <p>Input Voltage [V]</p>			<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>150</td><td>82.9</td><td>84.3</td></tr><tr><td>160</td><td>82.4</td><td>84.1</td></tr><tr><td>170</td><td>81.5</td><td>83.8</td></tr><tr><td>180</td><td>80.8</td><td>83.6</td></tr><tr><td>200</td><td>79.3</td><td>82.8</td></tr><tr><td>220</td><td>77.6</td><td>82.0</td></tr><tr><td>240</td><td>76.0</td><td>81.2</td></tr><tr><td>264</td><td>74.2</td><td>80.1</td></tr><tr><td>280</td><td>72.9</td><td>79.4</td></tr></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	150	82.9	84.3	160	82.4	84.1	170	81.5	83.8	180	80.8	83.6	200	79.3	82.8	220	77.6	82.0	240	76.0	81.2	264	74.2	80.1	280	72.9	79.4
Input Voltage [V]	Efficiency [%]																																			
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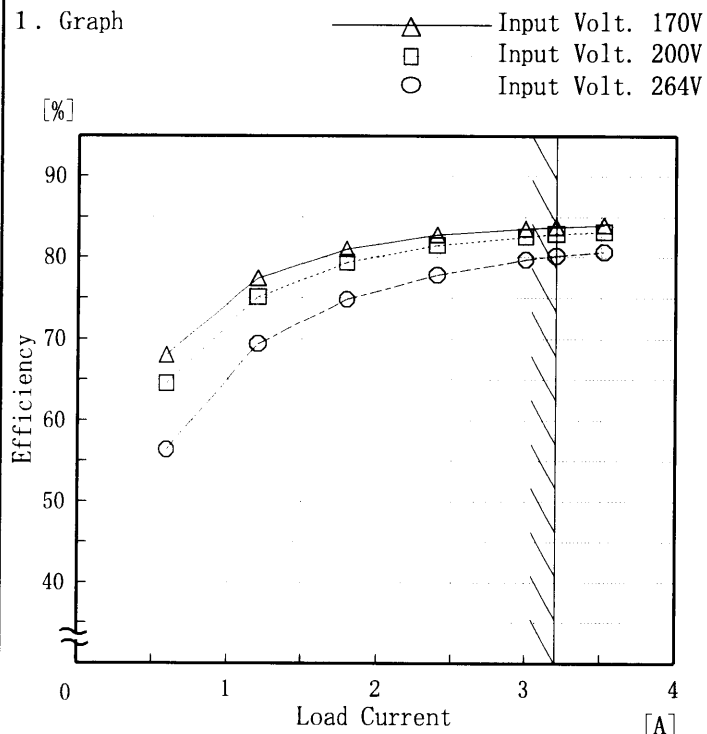
Model LDA75F-24

Item Efficiency (by Load Current)
効率 (負荷電流特性)

Output

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。

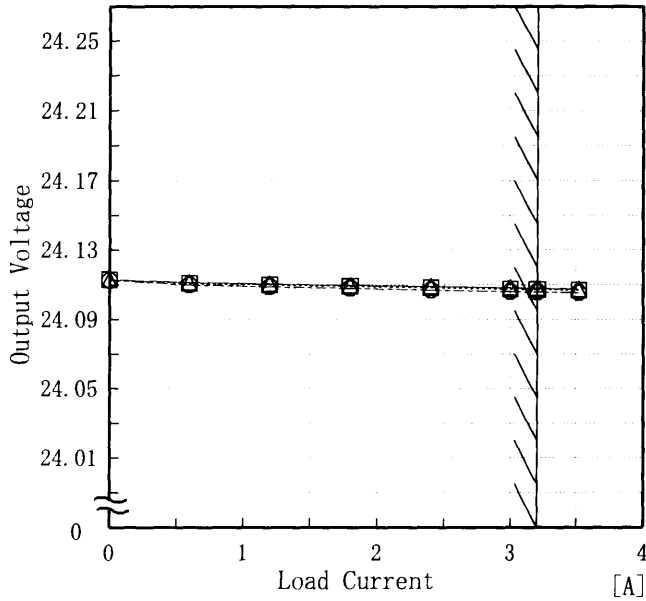
2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.60	68.0	64.5	56.3
1.20	77.4	75.1	69.4
1.80	81.0	79.4	74.8
2.40	82.8	81.5	77.8
3.00	83.6	82.6	79.7
3.20	83.7	82.9	80.2
3.52	84.0	83.1	80.7
—	—	—	—
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—	—	—	—
—	—	—	—
—	—	—	—

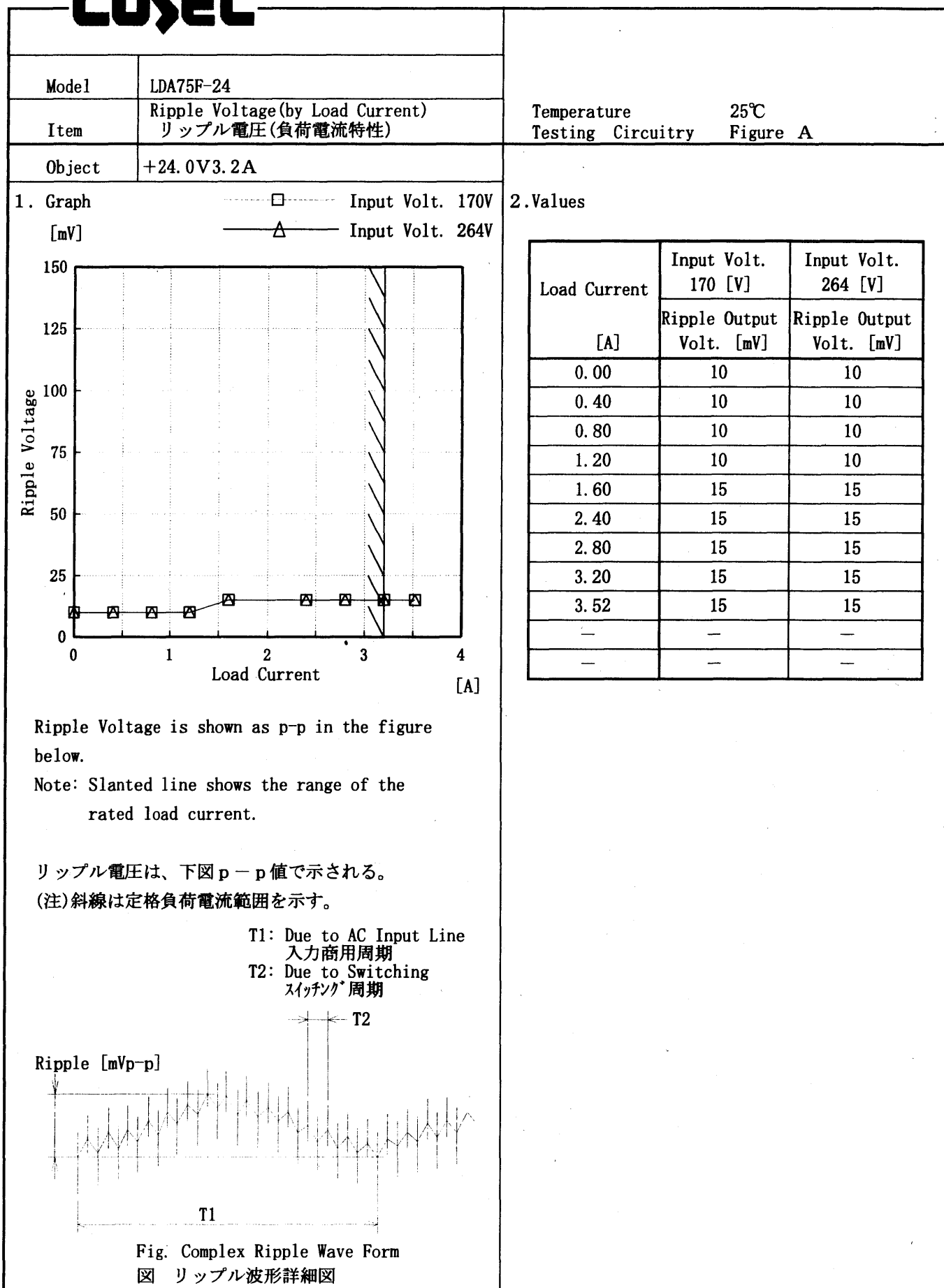
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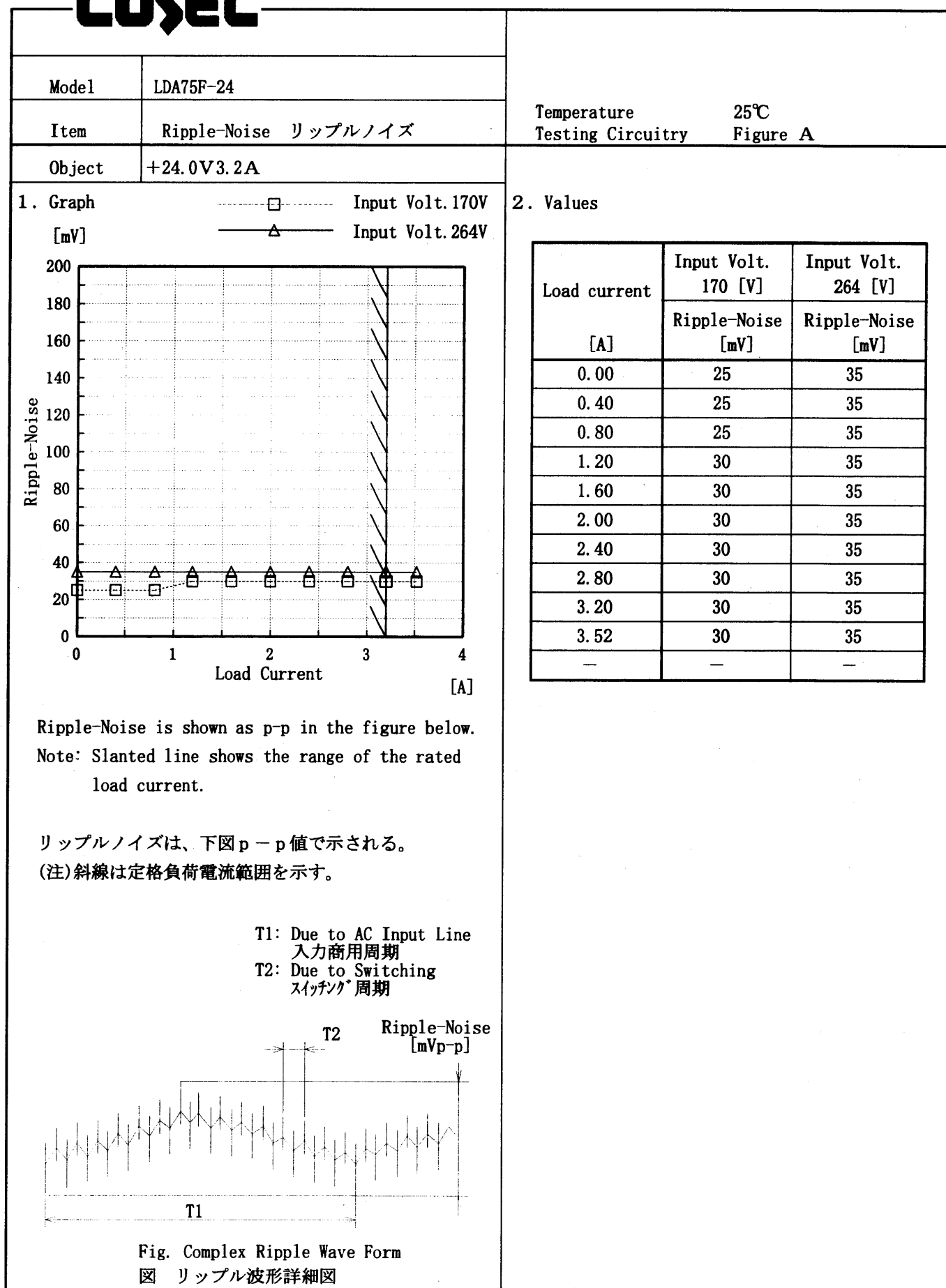
Model		LDA75F-24		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
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<div><div>△</div>Input Volt. 170 V</div> <div><div>□</div>Input Volt. 200 V</div> <div><div>○</div>Input Volt. 264 V</div> <div><div><div>Instantaneous Compensation Time [mS]</div><div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div><div>Load Current [A]</div></div></div><div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note:Slanted line shows the range of the rated load current.</p></div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.60</td><td>447</td><td>623</td><td>1079</td></tr><tr><td>1.20</td><td>252</td><td>356</td><td>631</td></tr><tr><td>1.80</td><td>171</td><td>244</td><td>437</td></tr><tr><td>2.40</td><td>132</td><td>190</td><td>345</td></tr><tr><td>3.00</td><td>103</td><td>148</td><td>269</td></tr><tr><td>3.20</td><td>96</td><td>138</td><td>252</td></tr><tr><td>3.52</td><td>86</td><td>124</td><td>228</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Time [mS]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	—	—	—	0.60	447	623	1079	1.20	252	356	631	1.80	171	244	437	2.40	132	190	345	3.00	103	148	269	3.20	96	138	252	3.52	86	124	228	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Time [mS]																																																									
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Model		LDA75F-24	Temperature		25℃
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A
Object		+24.0V3.2A	2. Values		
1. Graph		<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><div>Output Voltage [V]</div><div></div><div>Load Current [A]</div></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。					

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Model		LDA75F-24	Temperature 25℃ Testing Circuitry Figure A	
Item		Overcurrent Protection 過電流保護		
Object		+24.0V3.2A		

1. Graph

----- Input Volt. 170 V

----- Input Volt. 200 V

----- Input Volt. 264 V

[V]

40.0

30.0

20.0

10.0

0.0

Output Voltage

0

1

2

3

4

5

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

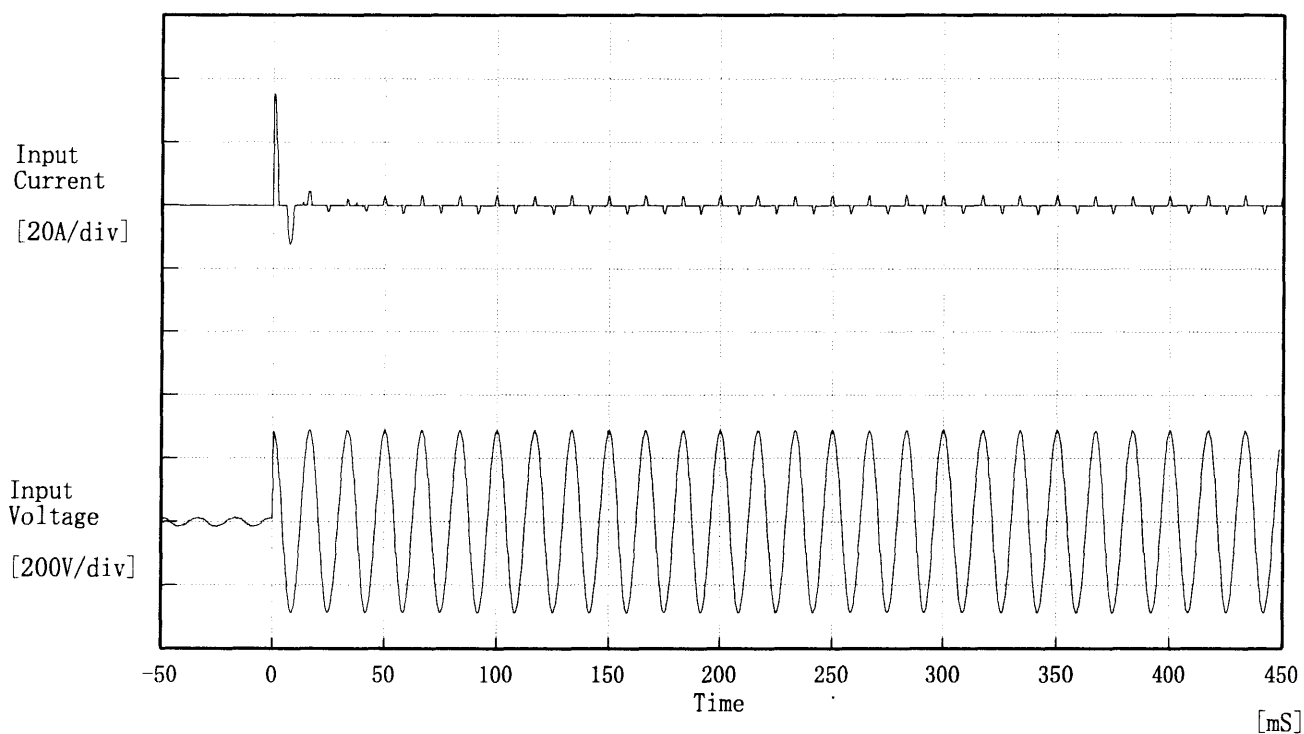
Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
24.00	4.26	4.29	4.33
22.80	4.28	4.32	4.35
21.60	4.29	4.32	4.36
19.20	4.32	4.33	4.37
16.80	4.33	4.35	4.39
14.40	4.35	4.37	4.42
12.00	4.37	4.38	4.44
9.60	4.38	4.39	4.44
7.20	4.38	4.39	4.41
4.80	4.35	4.33	4.31
2.40	4.19	4.14	4.06
0.00	3.93	3.93	4.03

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Model		LDA75F-24	Testing Circuitry Figure A																																																									
Item		Overvoltage Protection 過電圧保護																																																										
Object		+24.0V3.2A																																																										
1. Graph		<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><p>Operating Point [V]</p><p>Ambient Temperature [°C]</p><p>Load 0%</p><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></div>	2. Values																																																									
			<table><tr><th>Ambient Temp.</th><th>Input Volt.</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><th>[°C]</th><th>170[V]</th><th>200[V]</th><th>264[V]</th></tr><tr><td colspan="4">Operating Point [V]</td></tr><tr><td>-20</td><td>29.60</td><td>29.59</td><td>29.59</td></tr><tr><td>-10</td><td>29.77</td><td>29.77</td><td>29.77</td></tr><tr><td>0</td><td>30.02</td><td>30.01</td><td>30.01</td></tr><tr><td>10</td><td>30.17</td><td>30.18</td><td>30.17</td></tr><tr><td>20</td><td>30.42</td><td>30.42</td><td>30.42</td></tr><tr><td>25</td><td>30.54</td><td>30.55</td><td>30.54</td></tr><tr><td>30</td><td>30.60</td><td>30.60</td><td>30.60</td></tr><tr><td>40</td><td>30.84</td><td>30.84</td><td>30.84</td></tr><tr><td>50</td><td>31.09</td><td>31.08</td><td>31.08</td></tr><tr><td>60</td><td>31.26</td><td>31.27</td><td>31.26</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temp.	Input Volt.	Input Volt.	Input Volt.	[°C]	170[V]	200[V]	264[V]	Operating Point [V]				-20	29.60	29.59	29.59	-10	29.77	29.77	29.77	0	30.02	30.01	30.01	10	30.17	30.18	30.17	20	30.42	30.42	30.42	25	30.54	30.55	30.54	30	30.60	30.60	30.60	40	30.84	30.84	30.84	50	31.09	31.08	31.08	60	31.26	31.27	31.26	—	—	—	—
Ambient Temp.	Input Volt.	Input Volt.	Input Volt.																																																									
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0	30.02	30.01	30.01																																																									
10	30.17	30.18	30.17																																																									
20	30.42	30.42	30.42																																																									
25	30.54	30.55	30.54																																																									
30	30.60	30.60	30.60																																																									
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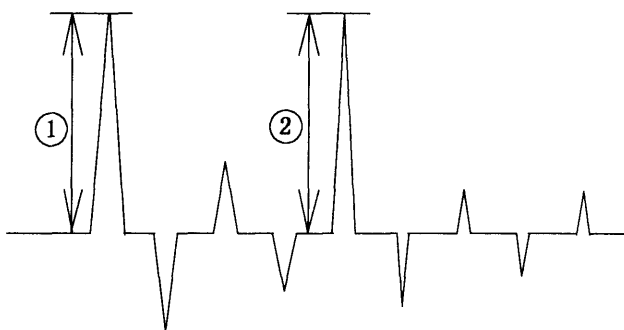
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Model	LDA75F-24	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object			



Input Voltage 200 V
Frequency 60 Hz
Load 100 %
Inrush Current

- ① 35.20 [A]
② 3.20 [A]



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Model	LDA75F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+24.0V 3.2A	

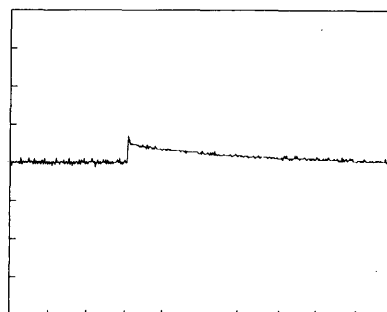
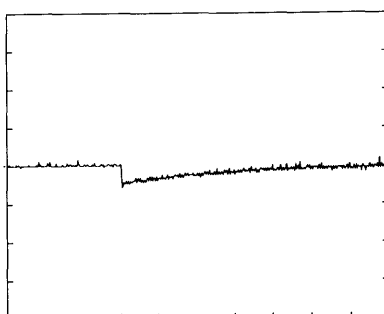
Input Volt. 200 V

Cycle 1000 mS

Load Current

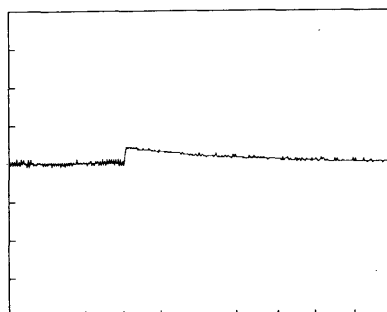
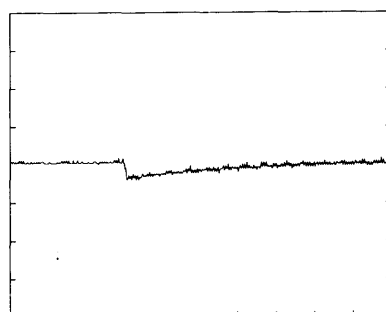
Load 0% ←→

Load 100 %



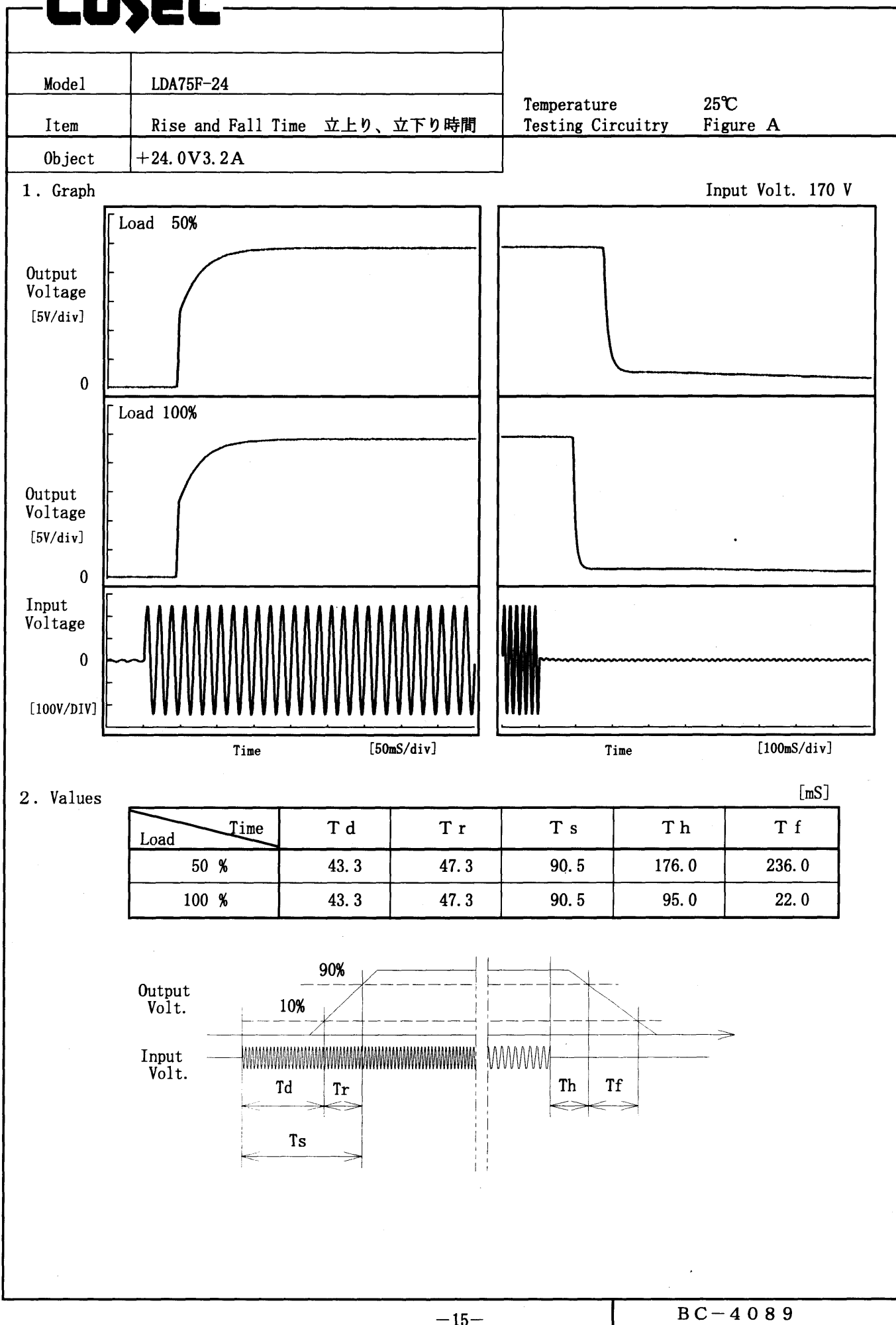
Load 0% ←→

Load 50 %



100 mV/div

10 mS/div

COSEL

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Model		LDA75F-24
Item		Ambient Temperature Drift 周囲温度変動
Object		+24.0V3.2A

1. Graph

△

□

○

Input Volt. 170V

Input Volt. 200V

Input Volt. 264V

[V]

Output Voltage

24.24

24.20

24.16

24.12

24.08

24.04

24.00

0

-30

-10

10

30

50

70

Ambient Temperature

[°C]

Load

100%

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	Output Voltage		
	Input Volt.	Input Volt.	Input Volt.
[°C]	170[V]	200[V]	264[V]
-20	24.107	24.107	24.106
-10	24.108	24.107	24.106
0	24.107	24.106	24.105
10	24.107	24.107	24.105
20	24.108	24.107	24.106
25	24.107	24.107	24.105
30	24.106	24.105	24.104
40	24.100	24.099	24.098
50	24.089	24.088	24.086
60	24.075	24.074	24.073
—	—	—	—

COSEL

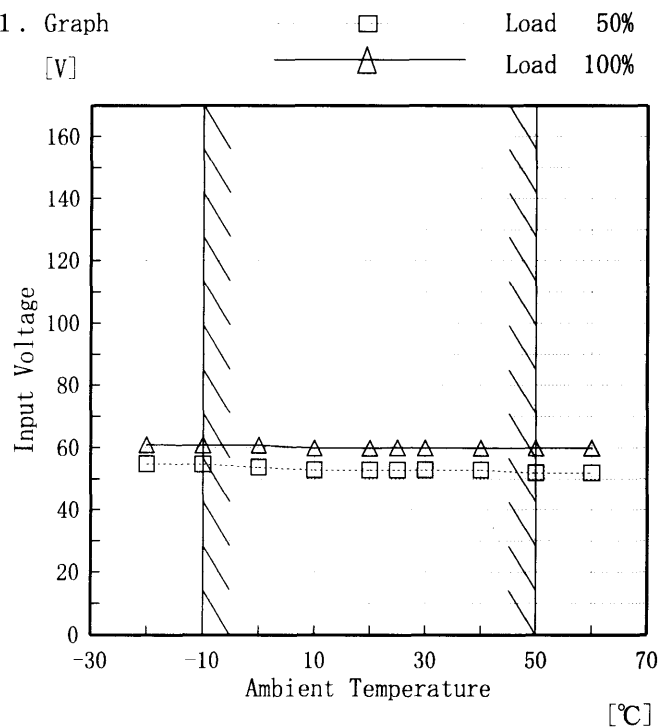
Model LDA75F-24

Item Minimum Input Voltage for Regulated Output Voltage
最低レギュレーション電圧

Object +24.0V3.2A

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]	Input Voltage [V]	
	Load 50%	Load 100%
-20	55	61
-10	55	61
0	54	61
10	53	60
20	53	60
25	53	60
30	53	60
40	53	60
50	52	60
60	52	60
—	—	—

COSEL

Model LDA75F-24		Testing Circuitry Figure A																																				
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																					
Object	+24.0V 3.2A																																					
1. Graph <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">□ Load 50%</div> <div style="text-align: center;">—△— Load 100%</div> </div> <p style="text-align: center;">Input Volt. 200 V</p> <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 border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Load 50% Ripple Output Volt. [mV]</th><th>Load 100% Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>-20</td><td>30</td><td>30</td></tr> <tr><td>-10</td><td>20</td><td>25</td></tr> <tr><td>0</td><td>20</td><td>20</td></tr> <tr><td>10</td><td>15</td><td>20</td></tr> <tr><td>20</td><td>15</td><td>15</td></tr> <tr><td>25</td><td>15</td><td>15</td></tr> <tr><td>30</td><td>15</td><td>15</td></tr> <tr><td>40</td><td>10</td><td>15</td></tr> <tr><td>50</td><td>10</td><td>10</td></tr> <tr><td>60</td><td>10</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	30	30	-10	20	25	0	20	20	10	15	20	20	15	15	25	15	15	30	15	15	40	10	15	50	10	10	60	10	10	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
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60	10	10																																				
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COSEL

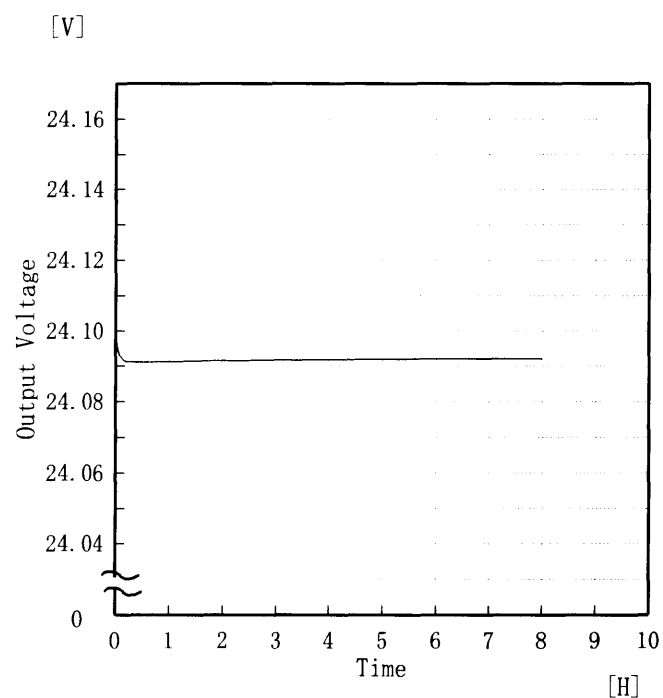
Model LDA75F-24

Item Time Lapse Drift 経時ドリフト

Object +24.0V3.2A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	24.102
0.5	24.091
1.0	24.091
2.0	24.092
3.0	24.092
4.0	24.092
5.0	24.092
6.0	24.092
7.0	24.092
8.0	24.092

Model		LDA75F-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24.0V3.2A	

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 : 0~3.2 A

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

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

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 : 170~264 V

負荷電流 : 0~3.2 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(Ration) [%]
Maximum Voltage	25	264	0.0	24.114	±16	±0.1
Minimum Voltage	50	264	3.2	24.083		

Model	LDA75F-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	0.30	0.40	0.46

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。

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Model		LDA75F-24	Temperature 25°C Testing Circuitry Figure C
Item		Line Noise Tolerance 入力雑音耐量	
Object		+24.0V 3.2A	

1. Results

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
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

2. Conditions

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

COSEL

Model	LDA75F-24	Temperature	25℃
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

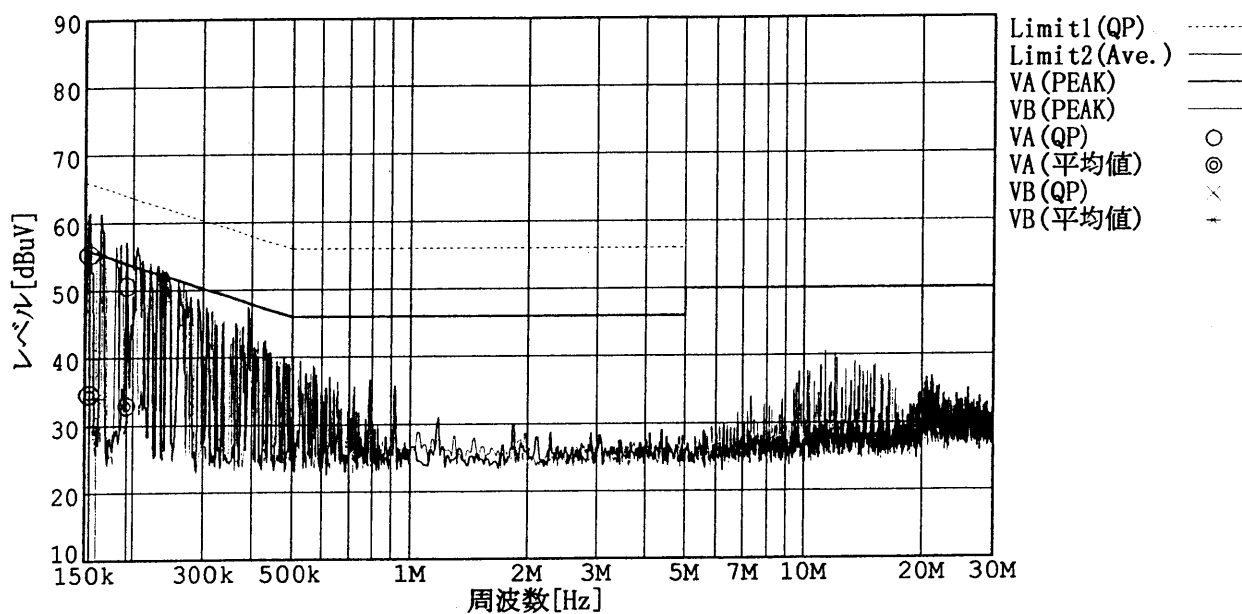
Remarks

Input Volt. 230 V

Load 100 %

規格 1 : [EN 55022] Class B (QP)

規格 2 : [EN 55022] Class B (平均値)



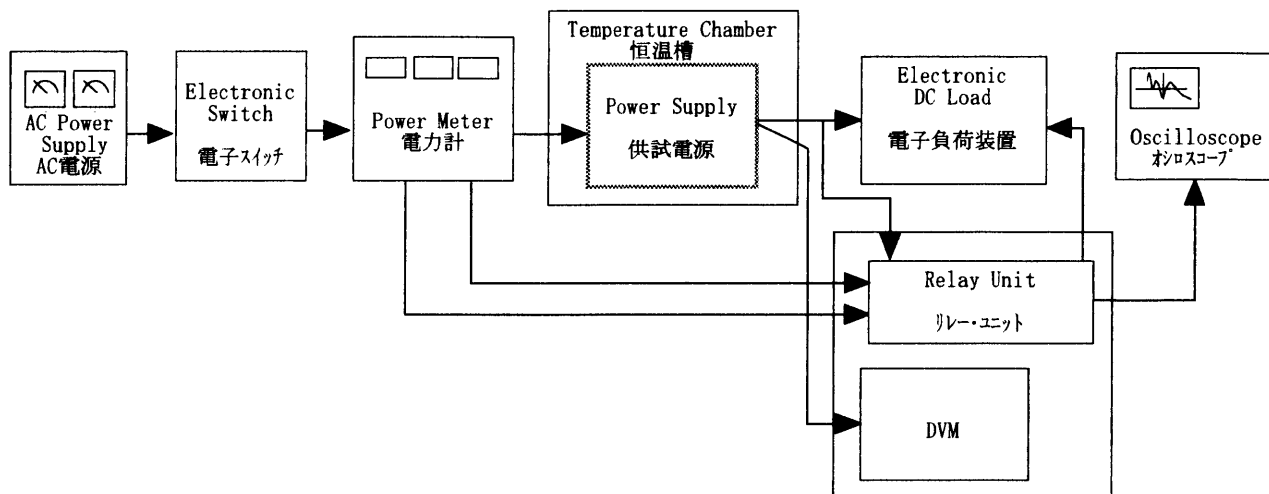


Figure A

Data Acquisition/Control Unit
データ集録システム

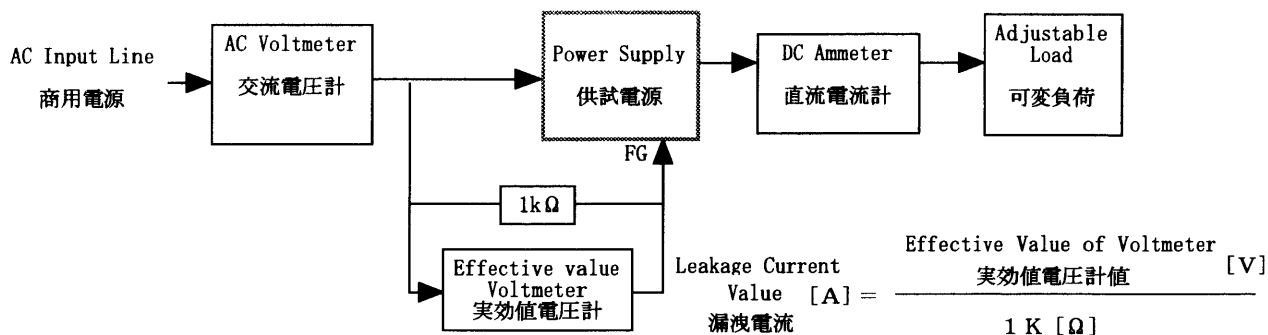


Figure B (DENTORI)

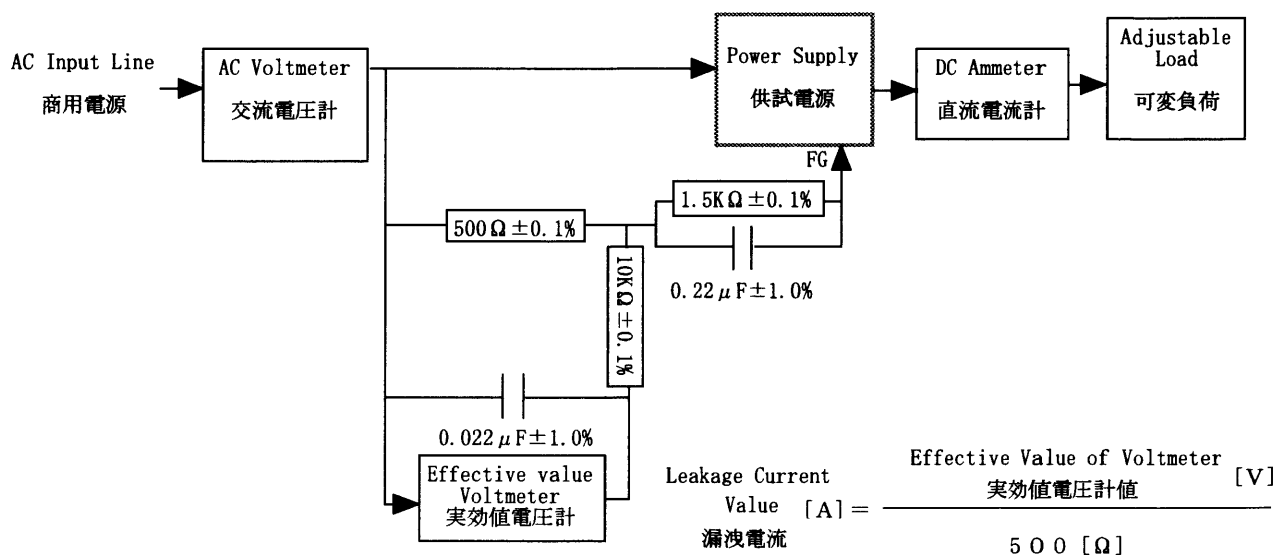


Figure B (IEC 60950)

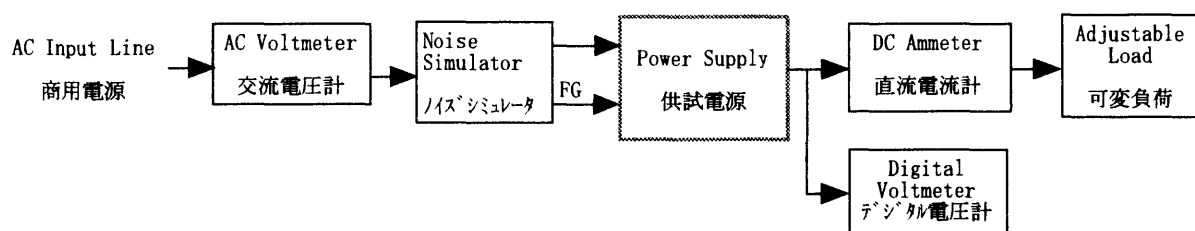


Figure C

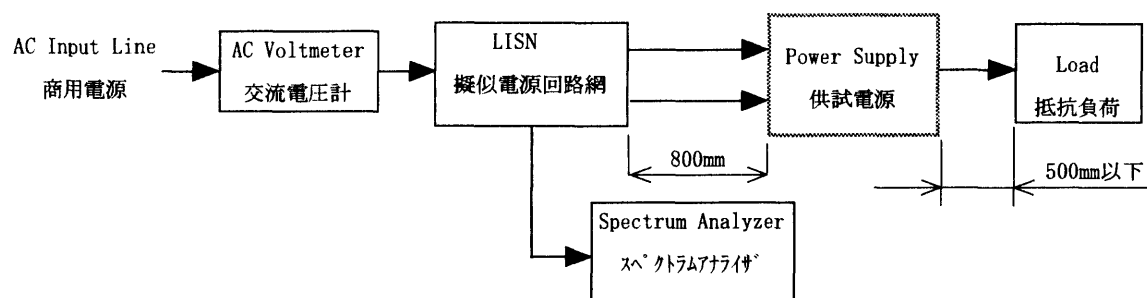


Figure D

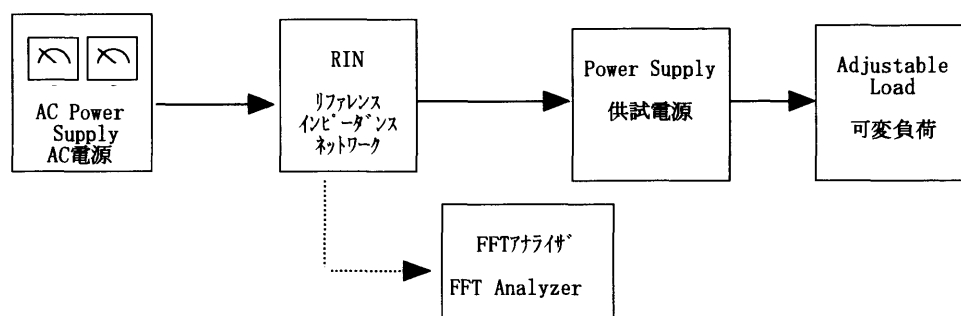


Figure E