

TEST DATA OF LDA150W-24-H

(200V INPUT)

Regulated DC Power Supply
Apr. 25. 2002

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コーセル株式会社
COSEL CO.,LTD.

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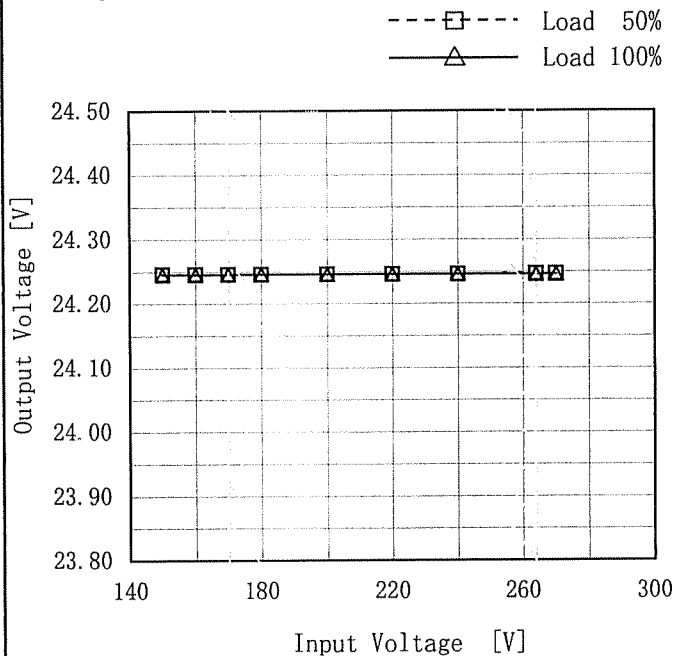
(Final Page 19)



Model	LDA150W-24-H
Item	Line Regulation 静的入力変動
Object	+24V6.3A

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	24.246	24.245
160	24.246	24.245
170	24.246	24.246
180	24.246	24.246
200	24.246	24.246
220	24.246	24.246
240	24.246	24.246
264	24.246	24.246
270	24.246	24.246



Model		LDA150W-24-H	Temperature		25°C																																																			
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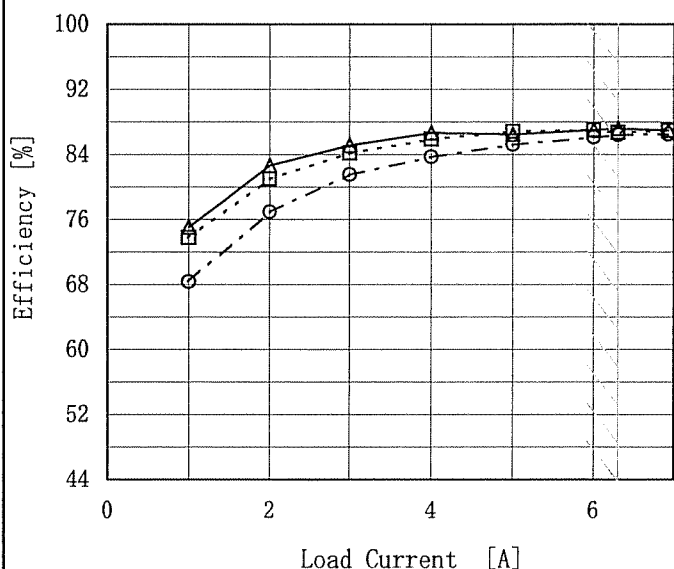


Model	LDA150W-24-H
Item	Efficiency (by Load Current) 効率 (負荷特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph

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



2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	—	—	—
1.00	75.1	73.8	68.3
2.00	82.6	81.0	76.9
3.00	85.1	84.1	81.5
4.00	86.7	85.9	83.7
5.00	86.5	86.8	85.2
6.00	87.0	87.0	86.1
6.30	87.2	86.7	86.4
6.93	86.9	86.9	86.5
—	—	—	—
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Note: Slanted line shows the range of the rated load current.

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<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy. Note: Slanted line shows the range of the rated input voltage.</p> <p>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。</p>																																			



<p>Model LDA150W-24-H</p> <p>Item Load Regulation 静的負荷変動</p> <p>Object +24V6.3A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																															
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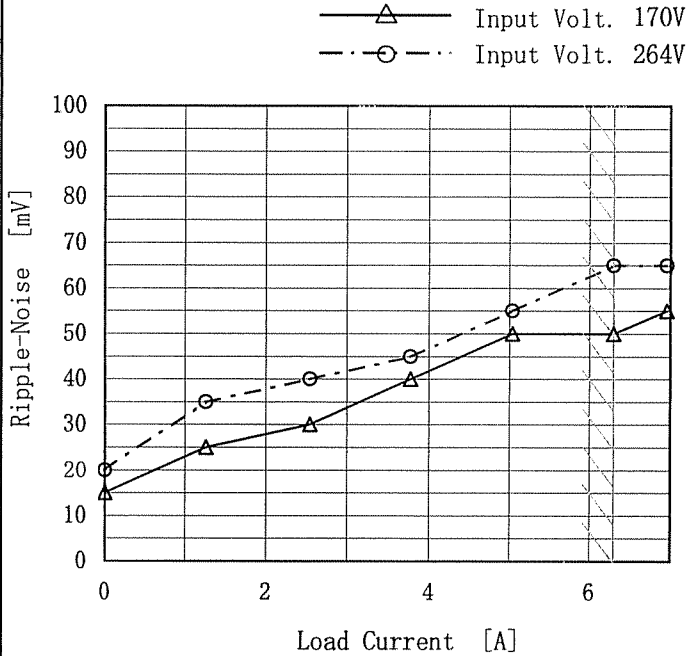


<p>Model LDA150W-24-H</p> <p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p> <p>Object +24V6.3A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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<p>Ripple Voltage is shown as p-p in the figure 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。 (注) 斜線は定格負荷電流範囲を示す。</p> <p>T1: Due to AC Input Line 入力商用周期 T2: Due to Switching スイッチング周期</p> <p>Ripple [mVp-p]</p> <p>T1</p> <p>T2</p>																																								
<p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>																																								



Model	LDA150W-24-H	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A
Object	+24V6.3A		

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.00	15	20
1.26	25	35
2.54	30	40
3.78	40	45
5.04	50	55
6.30	50	65
6.96	55	65
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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

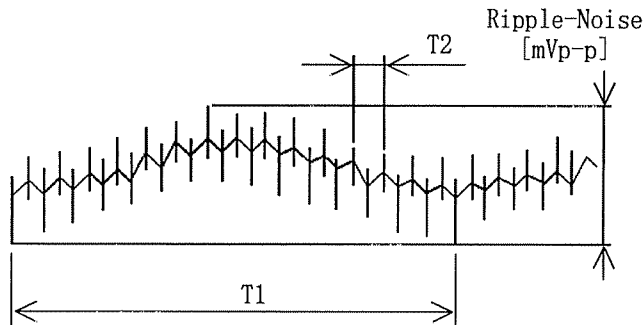


Fig. Complex Ripple Wave Form
図 リップル波形詳細図



Model		LDA150W-24-H	Temperature		25°C																																																							
Item		Overcurrent Protection 過電流保護	Testing Circuitry		Figure A																																																							
Object		+24V6.3A																																																										
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<p> Input Volt. 170V Input Volt. 200V Input Volt. 264V </p> <p style="text-align: center;">Load Current [A]</p> <p>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。</p>			<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>24.0</td><td>11.90</td><td>11.88</td><td>11.93</td></tr> <tr><td>22.8</td><td>11.92</td><td>11.92</td><td>12.05</td></tr> <tr><td>21.6</td><td>11.96</td><td>11.97</td><td>12.08</td></tr> <tr><td>19.2</td><td>12.05</td><td>12.07</td><td>12.19</td></tr> <tr><td>16.8</td><td>12.10</td><td>12.15</td><td>12.28</td></tr> <tr><td>14.4</td><td>12.19</td><td>12.25</td><td>12.31</td></tr> <tr><td>12.0</td><td>12.24</td><td>12.28</td><td>12.34</td></tr> <tr><td>9.6</td><td>12.27</td><td>12.35</td><td>12.47</td></tr> <tr><td>7.2</td><td>12.37</td><td>12.34</td><td>12.54</td></tr> <tr><td>4.8</td><td>12.27</td><td>12.25</td><td>12.20</td></tr> <tr><td>2.4</td><td>11.64</td><td>11.55</td><td>11.43</td></tr> <tr><td>0.0</td><td>12.95</td><td>13.04</td><td>13.16</td></tr> </tbody> </table>			Output Voltage [V]	Load Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	24.0	11.90	11.88	11.93	22.8	11.92	11.92	12.05	21.6	11.96	11.97	12.08	19.2	12.05	12.07	12.19	16.8	12.10	12.15	12.28	14.4	12.19	12.25	12.31	12.0	12.24	12.28	12.34	9.6	12.27	12.35	12.47	7.2	12.37	12.34	12.54	4.8	12.27	12.25	12.20	2.4	11.64	11.55	11.43	0.0	12.95	13.04	13.16
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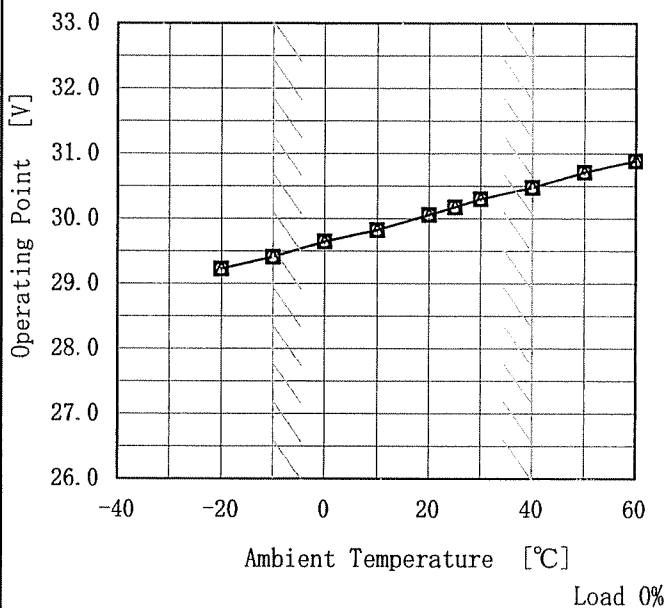


Model	LDA150W-24-H
Item	Overvoltage Protection 過電圧保護
Object	+24V6.3A

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.

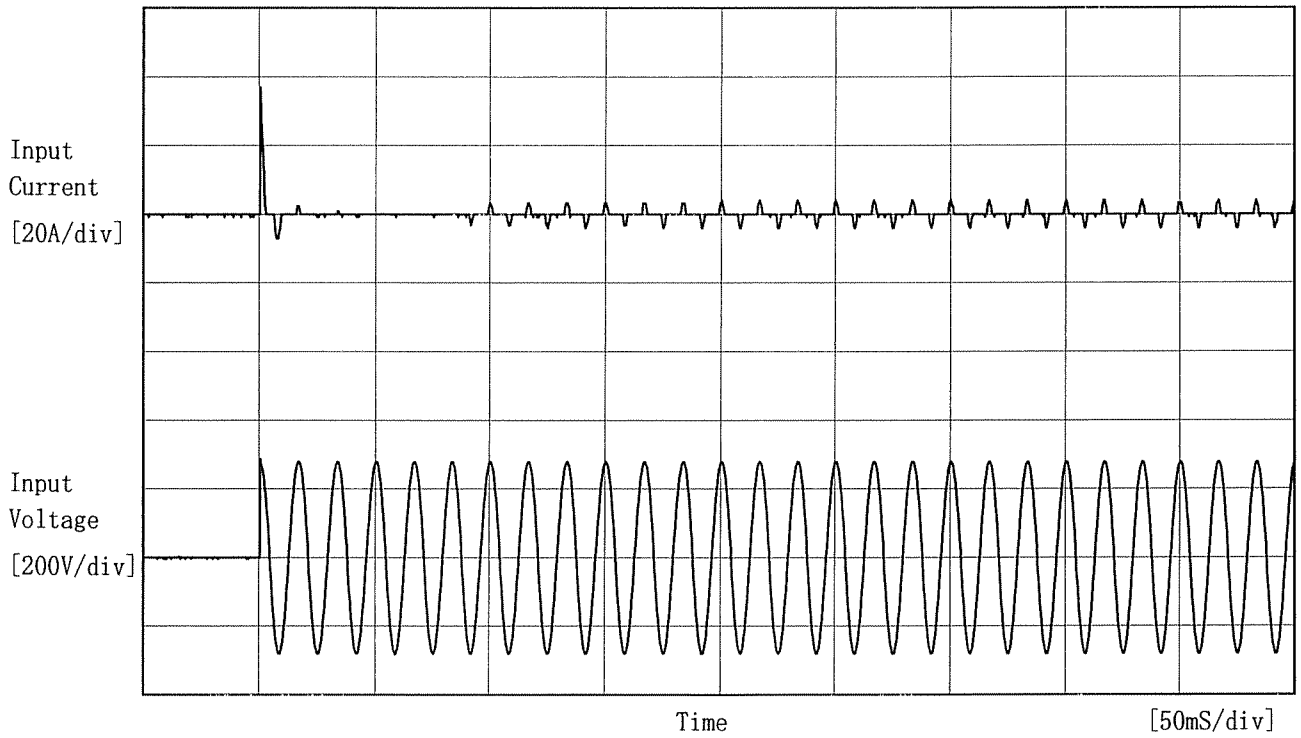
(注) 斜線は定格周囲温度範囲を示す。

2. Values

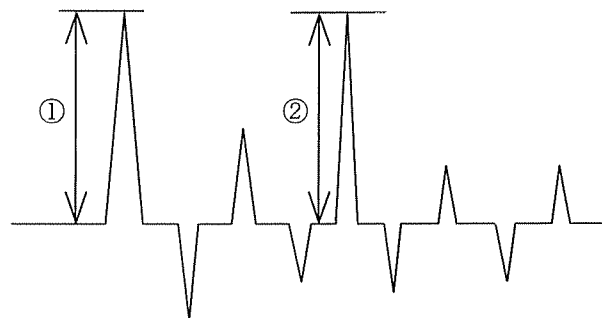
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	29.23	29.23	29.23
-10	29.41	29.41	29.41
0	29.65	29.65	29.65
10	29.82	29.82	29.82
20	30.06	30.06	30.06
25	30.18	30.18	30.18
30	30.30	30.30	30.30
40	30.48	30.48	30.48
50	30.71	30.71	30.71
60	30.89	30.89	30.89
—	—	—	—



Model	LDA150W-24-H	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 36.8 [A]
 ② 4.0 [A]

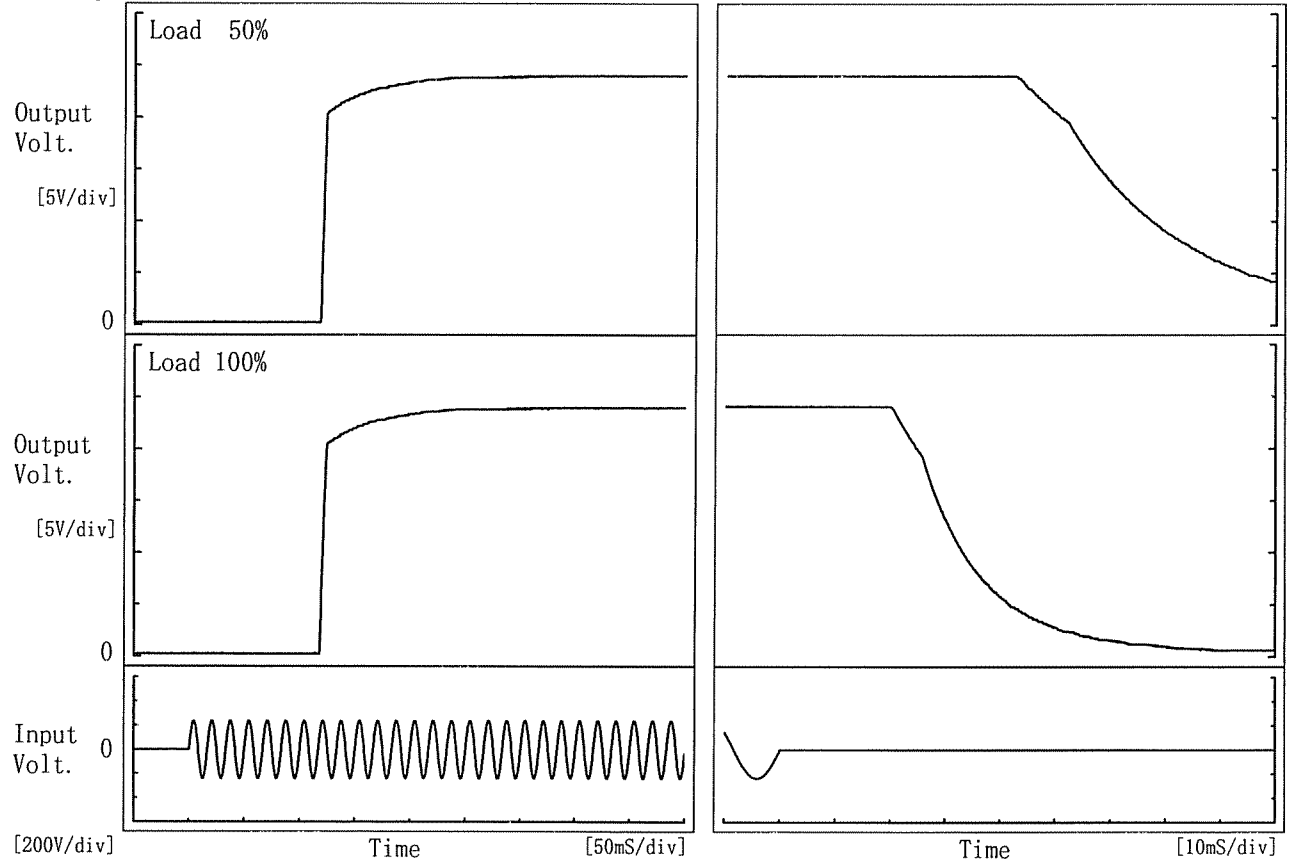




Model	LDA150W-24-H	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24V6.3A		

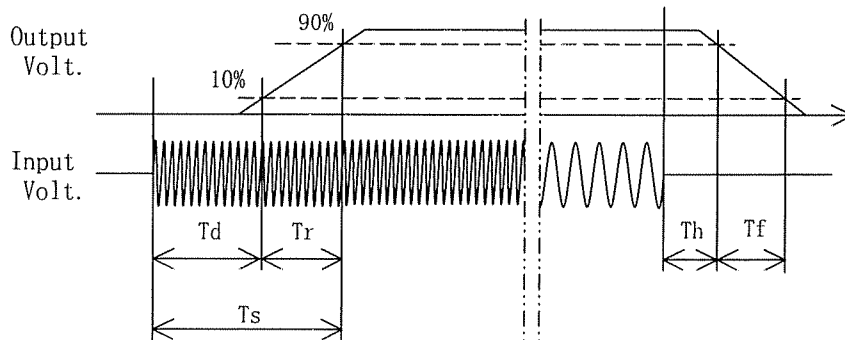
1. Graph

Input Volt. 170 V



2. Values

		[mS]				
Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		118.8	25.3	144.0	47.2	42.9
100 %		118.5	25.3	143.8	22.6	28.5



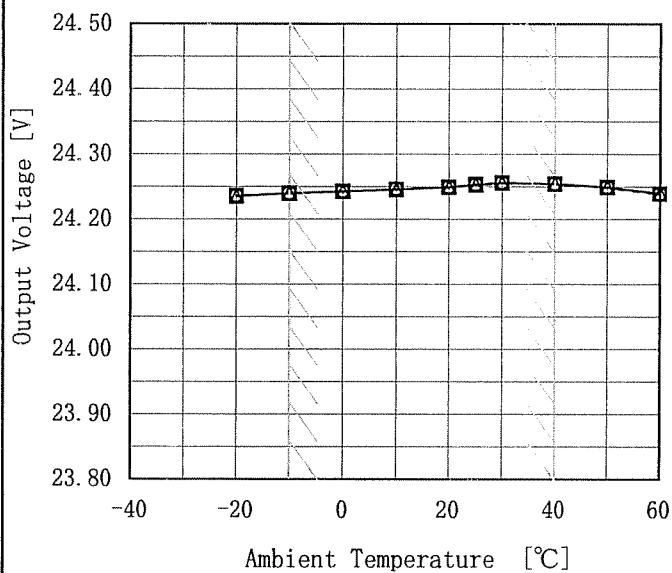


Model	LDA150W-24-H
Item	Ambient Temperature Drift 周囲温度変動
Object	+24V6.3A

Testing Circuitry Figure A

1. Graph

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



2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	24.235	24.236	24.236
-10	24.239	24.240	24.240
0	24.243	24.243	24.243
10	24.246	24.246	24.246
20	24.249	24.250	24.250
25	24.253	24.254	24.253
30	24.256	24.256	24.256
40	24.254	24.254	24.255
50	24.249	24.249	24.249
60	24.240	24.239	24.239
—	—	—	—

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。



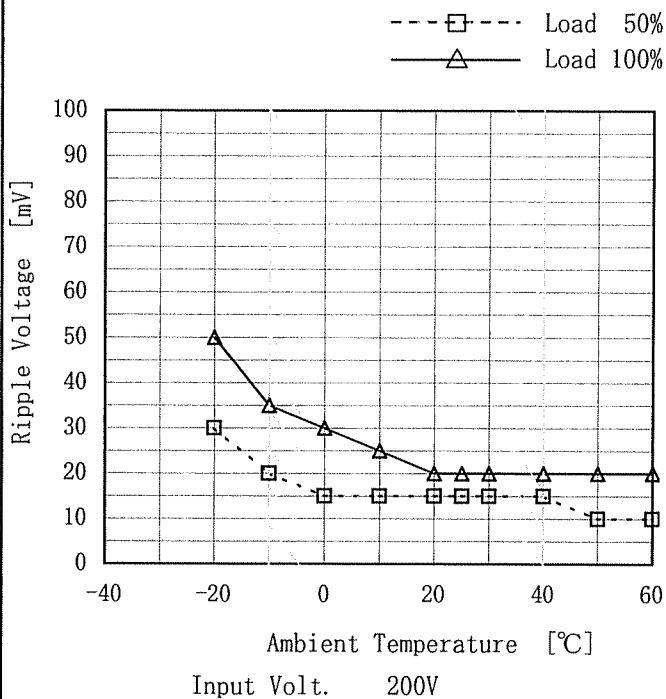
<p>Model LDA150W-24-H</p> <p>Item Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧</p> <p>Object +24V6.3A</p>		<p>Testing Circuitry Figure A</p>																																						
<p>1. Graph</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature. (注) 斜線は定格周囲温度範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>54</td><td>62</td></tr> <tr><td>-10</td><td>54</td><td>62</td></tr> <tr><td>0</td><td>54</td><td>62</td></tr> <tr><td>10</td><td>53</td><td>62</td></tr> <tr><td>20</td><td>53</td><td>62</td></tr> <tr><td>25</td><td>53</td><td>62</td></tr> <tr><td>30</td><td>53</td><td>62</td></tr> <tr><td>40</td><td>53</td><td>62</td></tr> <tr><td>50</td><td>53</td><td>62</td></tr> <tr><td>60</td><td>53</td><td>61</td></tr> <tr><td>--</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	54	62	-10	54	62	0	54	62	10	53	62	20	53	62	25	53	62	30	53	62	40	53	62	50	53	62	60	53	61	--	—	—
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Model	LDA150W-24-H
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+24V6.3A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	30	50
-10	20	35
0	15	30
10	15	25
20	15	20
25	15	20
30	15	20
40	15	20
50	10	20
60	10	20
--	—	—

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		LDA150W-24-H	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24V6.3A	

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 : 170 ~ 264V

Load Current : 0 ~ 6.3A

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

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

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 : 170 ~ 264V

負荷電流 : 0 ~ 6.3A

* 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

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	170	0	24.256	±8	±0.1
Minimum Voltage	-10	264	6.3	24.241		

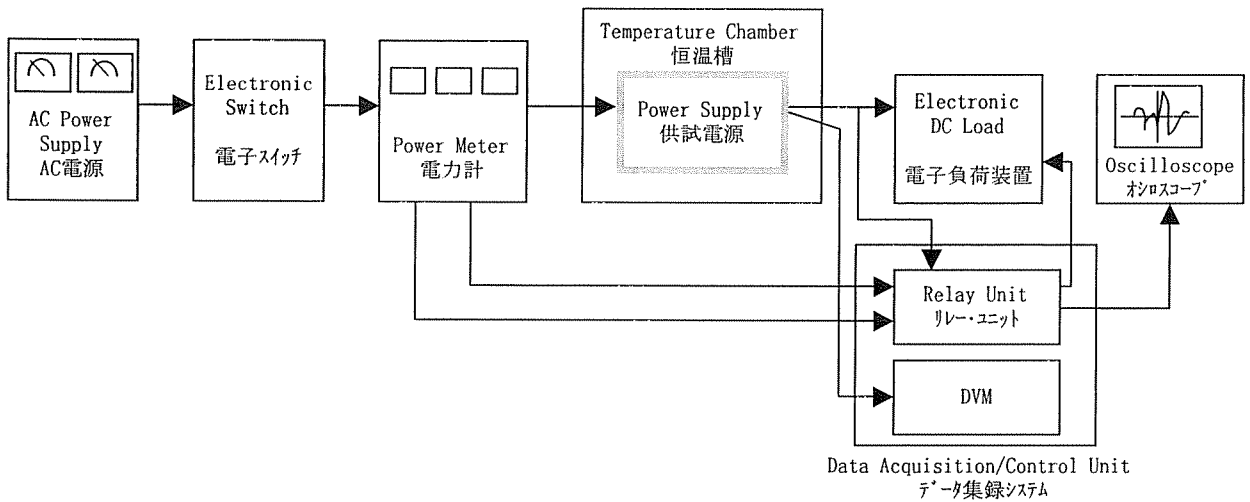


Figure A

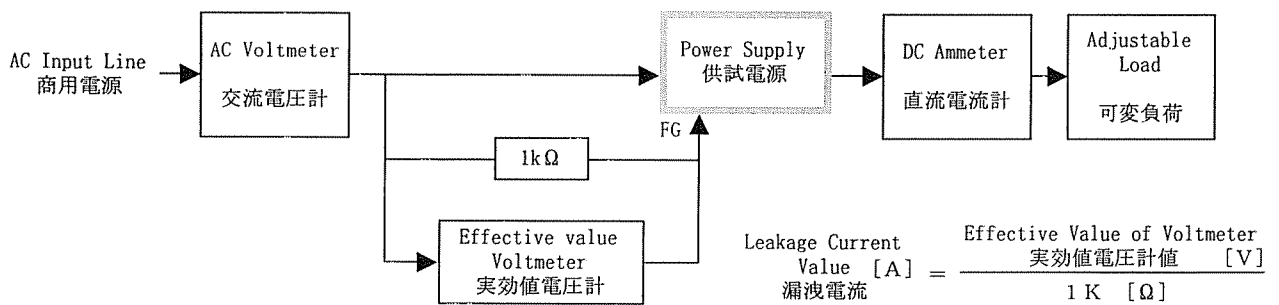


Figure B (DEN-AN)

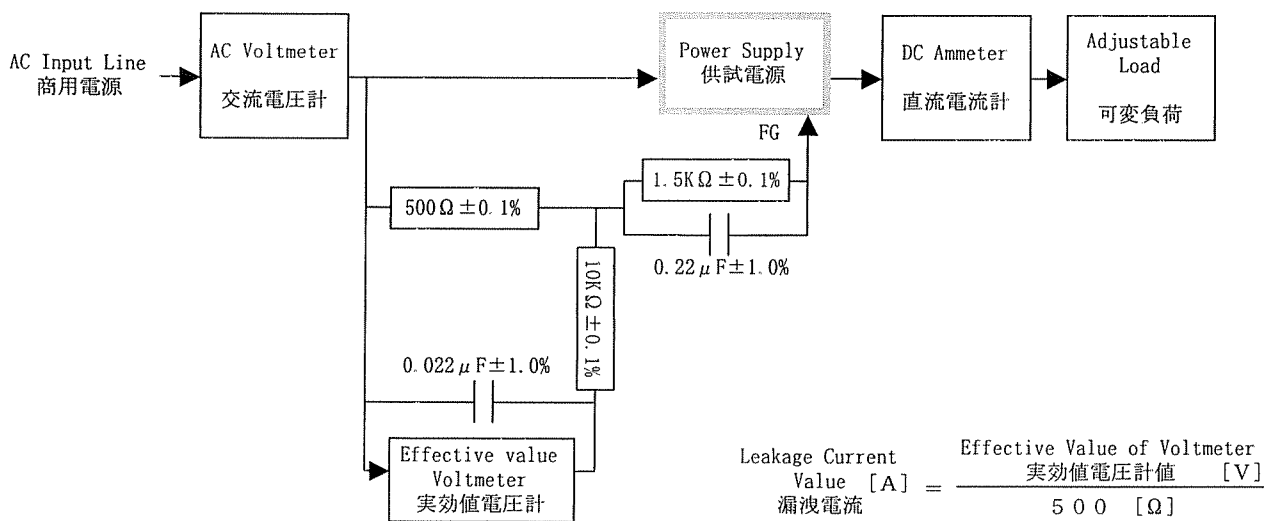


Figure B (IEC60950)

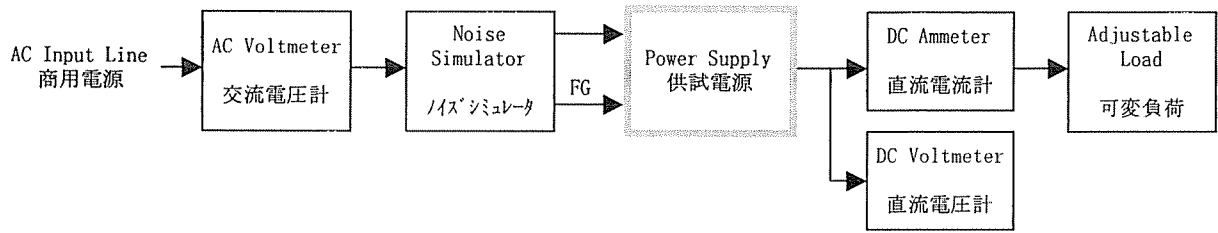


Figure C

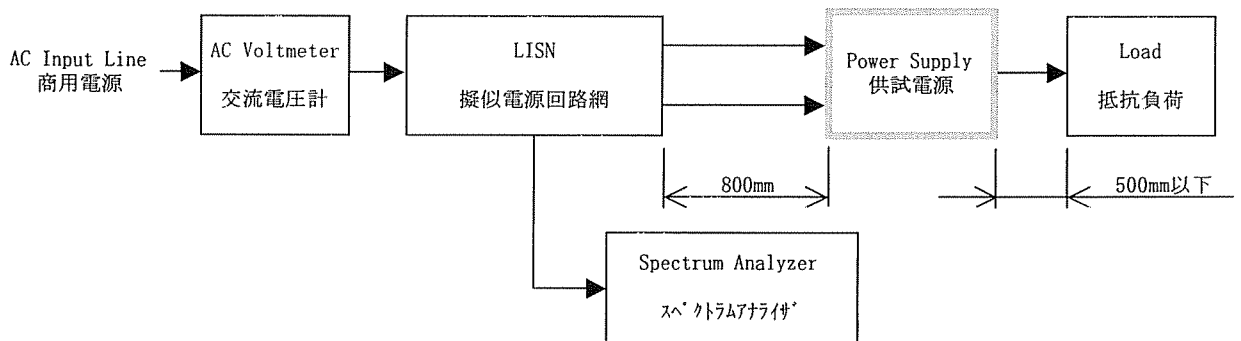


Figure D

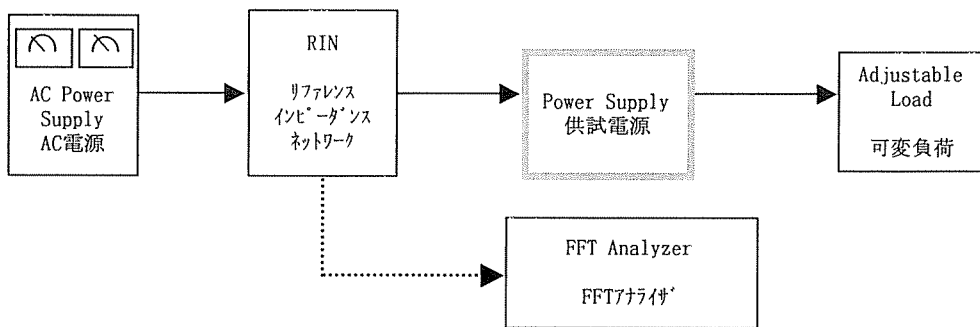


Figure E