



TEST DATA OF LDA150W-3  
(100V INPUT)

Regulated DC Power Supply

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**COSEL CO., LTD.**



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<p>Model LDA150W-3</p> <p>Item Line Regulation 静的入力変動</p> <p>Object +3.0V30A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																
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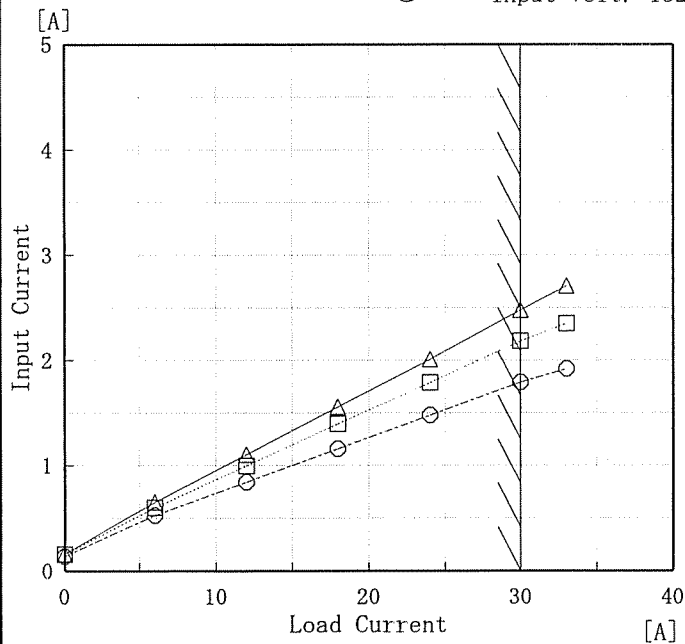


Model	LDA150W-3
Item	Input Current (by Load Current) 入力電流 (負荷特性)
Object	_____

Temperature 25°C  
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85V  
- - -□- - - Input Volt. 100V  
- - -○- - - Input Volt. 132V



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 Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.160	0.157	0.139
6	0.652	0.601	0.527
12	1.105	0.999	0.845
18	1.558	1.395	1.159
24	2.011	1.789	1.477
30	2.477	2.183	1.790
33	2.708	2.351	1.918
—	—	—	—
—	—	—	—
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Model		LDA150W-3	Temperature		25°C																																																							
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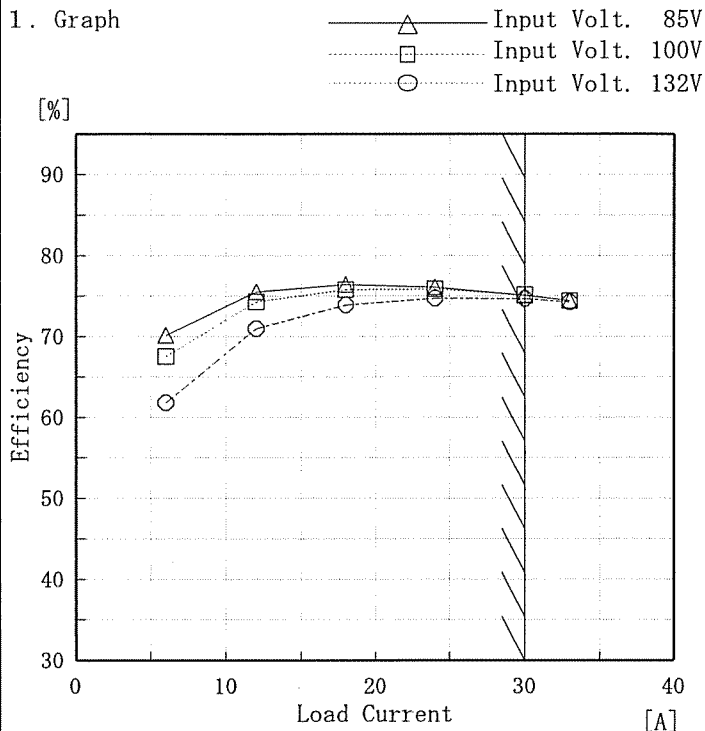
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Model	LDA150W-3
Item	Efficiency (by Load Current) 効率 (負荷特性)
Object	_____

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. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
6	70.1	67.5	61.8
12	75.5	74.3	71.0
18	76.4	75.8	73.9
24	76.1	75.9	74.7
30	75.1	75.1	74.7
33	74.5	74.4	74.2
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



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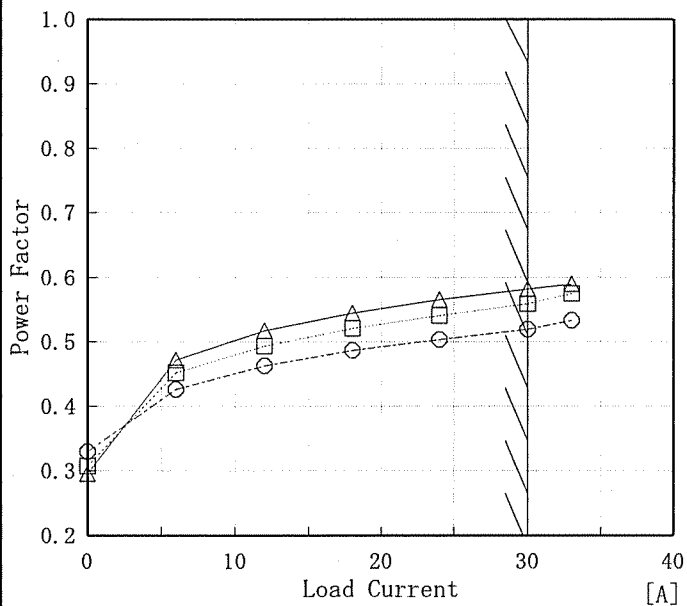


Model	LDA150W-3
Item	Power Factor (by Load Current) 力率 (負荷特性)
Object	_____

Temperature 25°C  
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85V  
 - - -□- - - Input Volt. 100V  
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Note: Slanted line shows the range of the rated load current.

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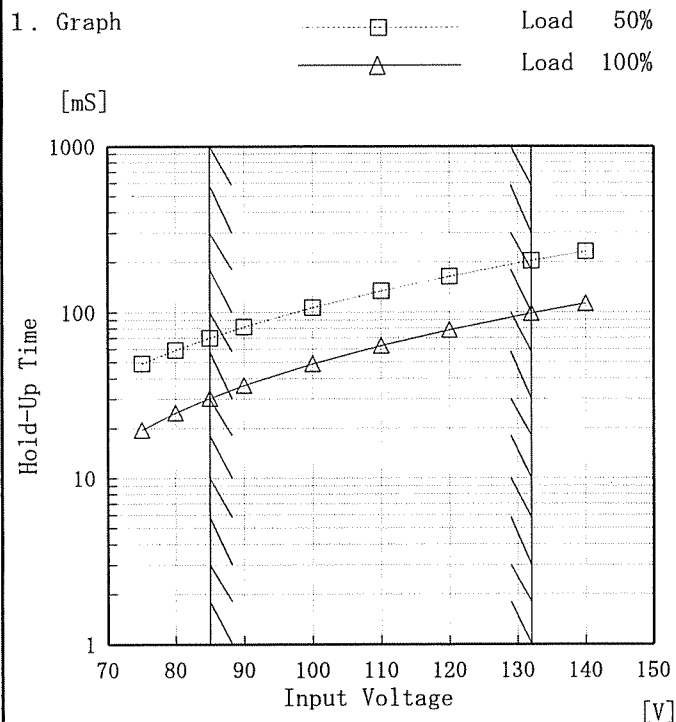
2. Values

Load Current [A]	Power Factor		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
0	0.30	0.31	0.33
6	0.47	0.45	0.43
12	0.52	0.49	0.46
18	0.54	0.52	0.49
24	0.57	0.54	0.50
30	0.58	0.56	0.52
33	0.59	0.58	0.53
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	LDA150W-3
Item	Hold-Up Time 出力保持時間
Object	+3.0V30A

Temperature 25°C  
Testing Circuitry Figure A



2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	49	20
80	59	25
85	70	30
90	82	36
100	107	49
110	135	63
120	165	78
132	204	99
140	232	113

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。

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<p>Model LDA150W-3</p>																																																						
<p>Item Instantaneous Interruption Compensation 瞬時停電保障</p>		Temperature 25°C	Testing Circuitry Figure A																																																			
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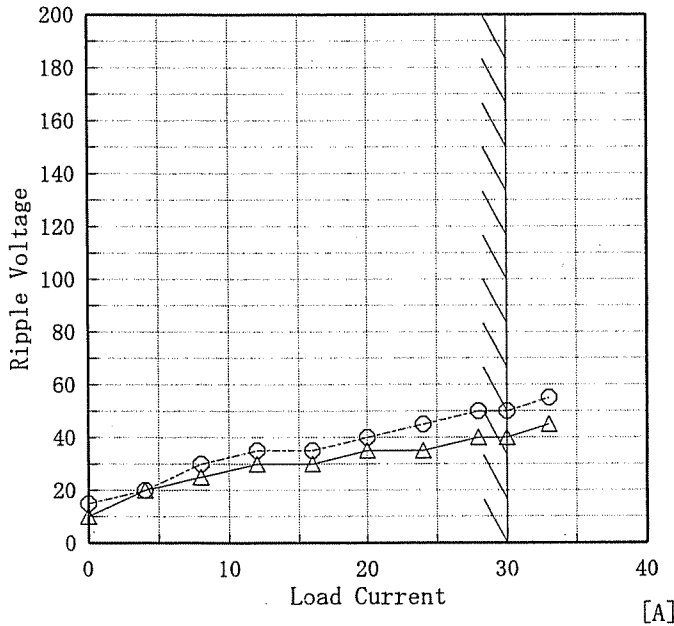
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<p>1. Graph</p> <p style="text-align: right;"> <span style="margin-right: 20px;">—△—</span> Input Volt. 85 V  <span style="margin-right: 20px;">- - -□- - -</span> Input Volt. 100 V  <span style="margin-right: 20px;">- - -○- - -</span> Input Volt. 132 V                 </p> <p style="text-align: center;">Note: Slanted line shows the range of the rated load current.</p> <p style="text-align: center;">(注)斜線は定格負荷電流範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</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> </thead> <tbody> <tr><td>0</td><td>3.049</td><td>3.049</td><td>3.049</td></tr> <tr><td>6</td><td>3.048</td><td>3.049</td><td>3.048</td></tr> <tr><td>12</td><td>3.048</td><td>3.048</td><td>3.048</td></tr> <tr><td>18</td><td>3.047</td><td>3.047</td><td>3.047</td></tr> <tr><td>24</td><td>3.046</td><td>3.046</td><td>3.046</td></tr> <tr><td>30</td><td>3.046</td><td>3.046</td><td>3.046</td></tr> <tr><td>33</td><td>3.045</td><td>3.045</td><td>3.045</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> </tbody> </table>	Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	3.049	3.049	3.049	6	3.048	3.049	3.048	12	3.048	3.048	3.048	18	3.047	3.047	3.047	24	3.046	3.046	3.046	30	3.046	3.046	3.046	33	3.045	3.045	3.045	—	—	—	—	—	—	—	—	—	—	—	—
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Model	LDA150W-3	Temperature	25°C
Item	Ripple Voltage (by Load Current) リップル電圧(負荷特性)	Testing Circuitry	Figure A

Object +3.0V30A

1. Graph  
 [mV]      —△— Input Volt. 85V  
             —○— Input Volt. 132V



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

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

リップル電圧は、下図 p-p 値で示される。  
 (注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line  
 入力商用周期  
 T2: Due to Switching  
 スイッチング周期

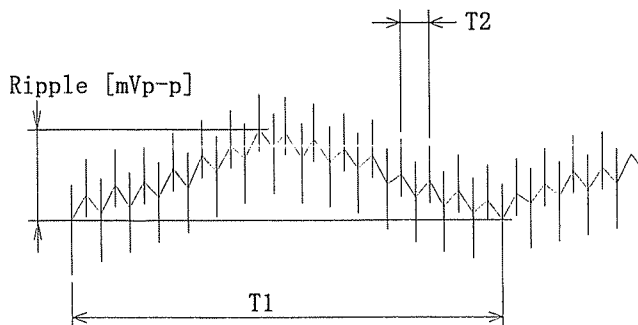


Fig. Complex Ripple Wave Form  
 図 リップル波形詳細図

2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0	10	15
4	20	20
8	25	30
12	30	35
16	30	35
20	35	40
24	35	45
28	40	50
30	40	50
33	45	55
—	—	—



Model		LDA150W-3		Temperature		25°C																																							
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																							
Object		+3.0V30A																																											
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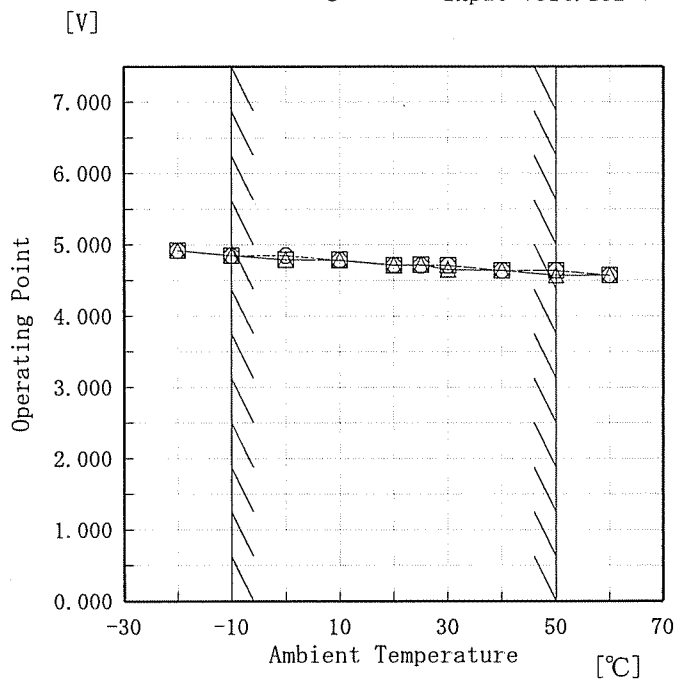
<p>Model LDA150W-3</p> <p>Item Overcurrent Protection 過電流保護</p> <p>Object +3.0V30A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																							
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Model	LDA150W-3
Item	Overvoltage Protection 過電圧保護
Object	+3.0V30A

Testing Circuitry Figure A

1. Graph
- △— Input Volt. 85 V
  - Input Volt. 100 V
  - Input Volt. 132 V



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。

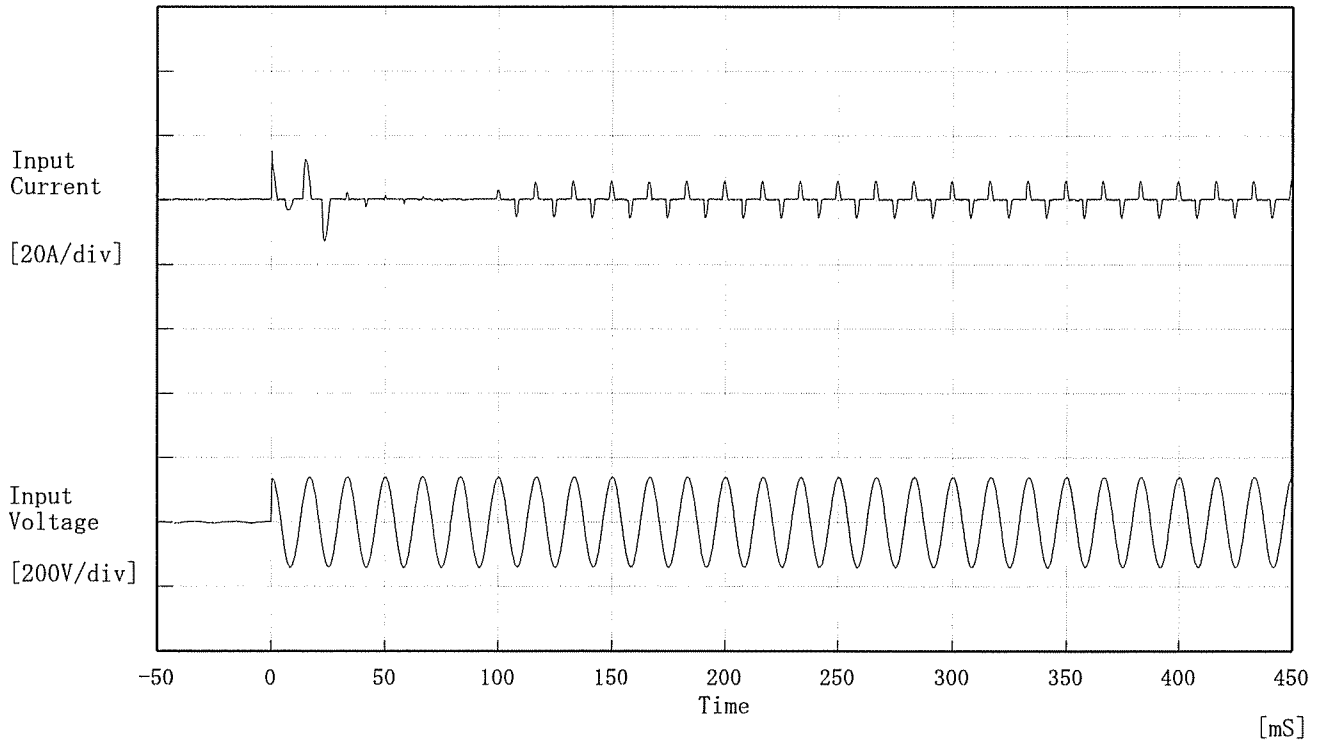
2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	4.92	4.92	4.92
-10	4.85	4.85	4.85
0	4.79	4.79	4.85
10	4.78	4.79	4.78
20	4.72	4.71	4.71
25	4.72	4.72	4.71
30	4.65	4.71	4.71
40	4.64	4.64	4.64
50	4.57	4.64	4.64
60	4.57	4.57	4.57
—	—	—	—

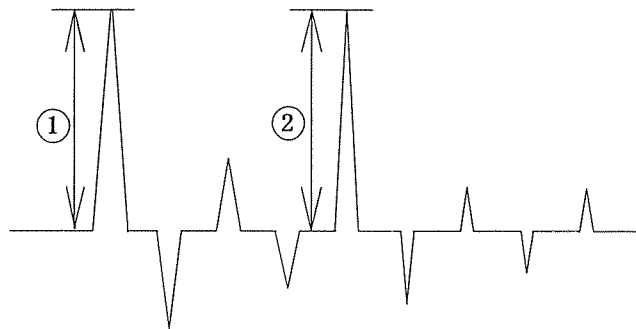




Model	LDA150W-3	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



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

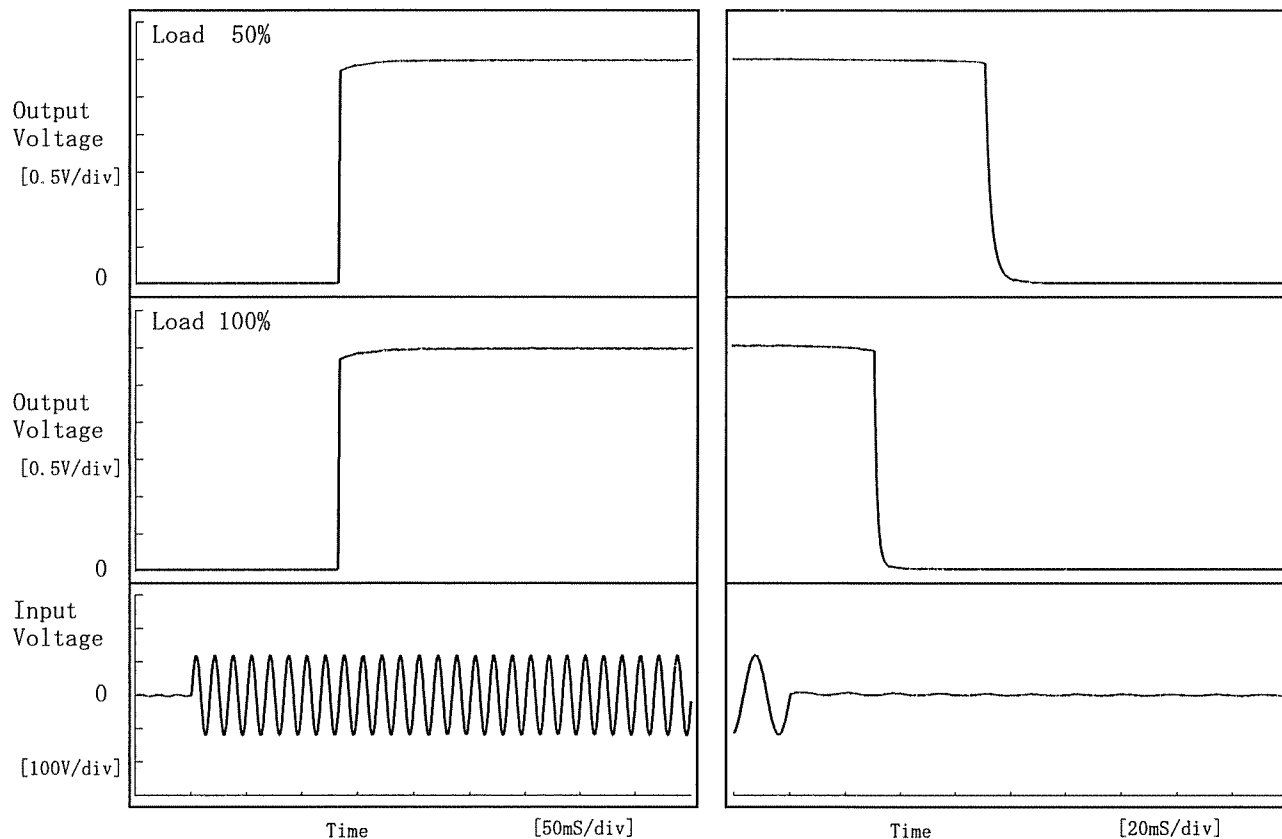




Model	LDA150W-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3.0V30A		

1. Graph

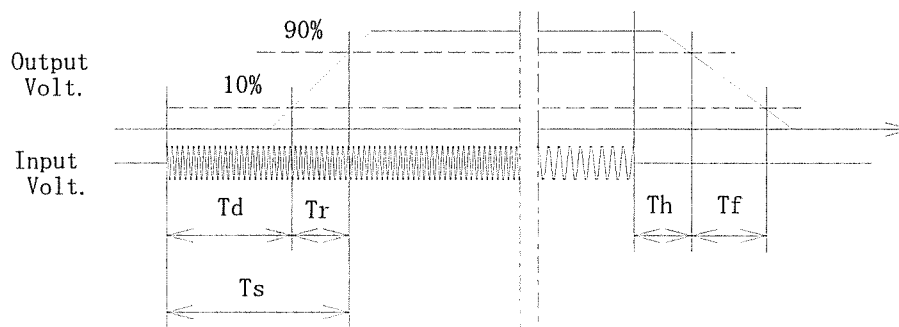
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	132.0	1.3	133.3	70.7	5.0
100 %	132.0	1.5	133.5	30.8	2.5

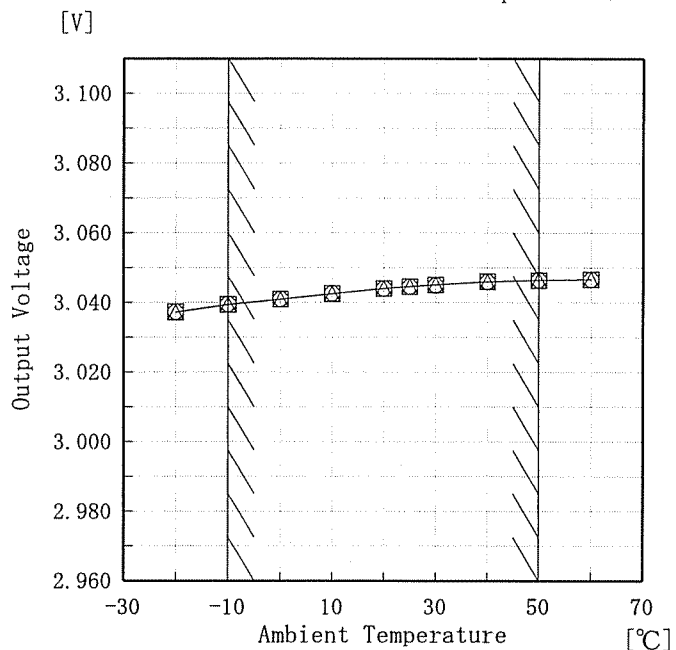




Model	LDA150W-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3.0V30A

Testing Circuitry Figure A

1. Graph
- △— Input Volt. 85V
  - Input Volt. 100V
  - Input Volt. 132V



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。

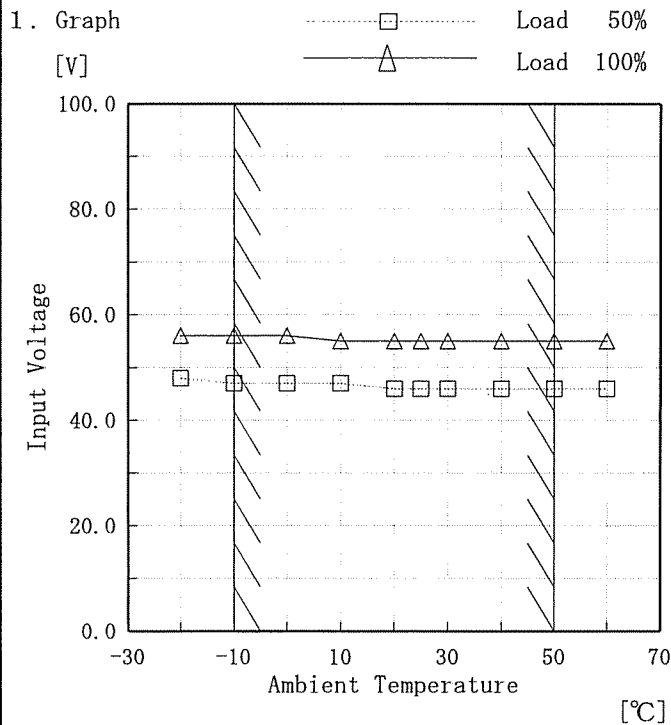
2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	3.037	3.037	3.037
-10	3.039	3.039	3.040
0	3.041	3.041	3.041
10	3.042	3.043	3.043
20	3.044	3.044	3.044
25	3.045	3.045	3.045
30	3.045	3.045	3.045
40	3.046	3.046	3.046
50	3.046	3.046	3.046
60	3.047	3.047	3.047
—	—	—	—



Model	LDA150W-3
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+3.0V30A

Testing Circuitry Figure A



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

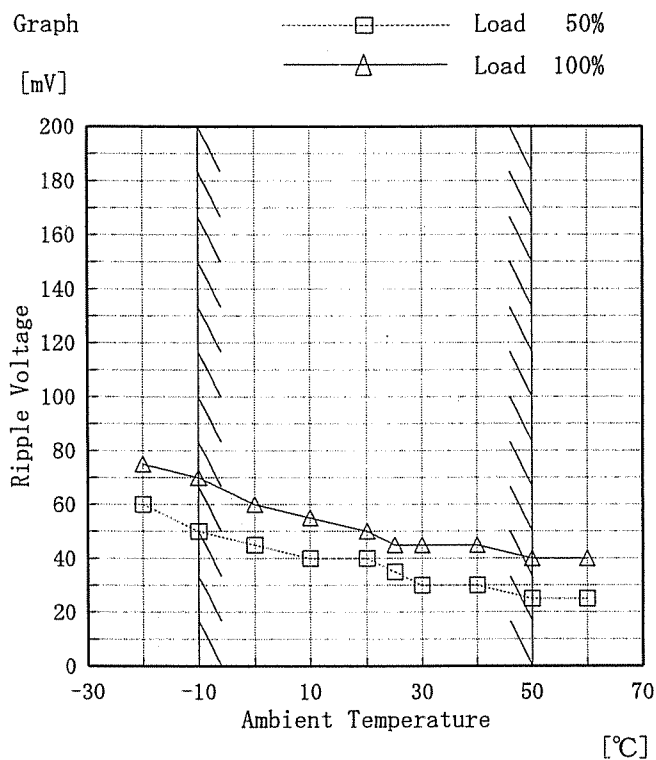
Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	48	56
-10	47	56
0	47	56
10	47	55
20	46	55
25	46	55
30	46	55
40	46	55
50	46	55
60	46	55
—	—	—



Model	LDA150W-3
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+3.0V30A

Testing Circuitry Figure A

1. Graph



Input Volt. 100 V

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

(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	60	75
-10	50	70
0	45	60
10	40	55
20	40	50
25	35	45
30	30	45
40	30	45
50	25	40
60	25	40
—	—	—



<b>COSEL</b>		
Model	LDA150W-3	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+3.0V30A	

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 : 0~30 A

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

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

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~50 °C

入力電圧 85~132 V

負荷電流 0~30 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

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	100	0	3.050	±5	±0.2
Minimum Voltage	-10	85	30	3.040		

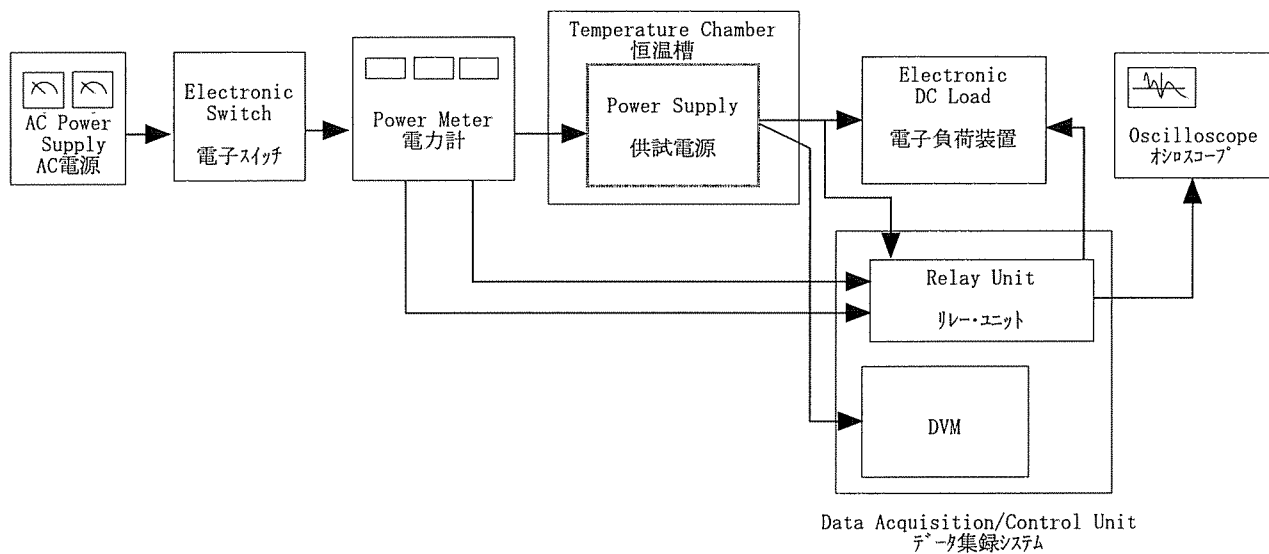


Figure A