



TEST DATA OF LDA30F-3
(200V INPUT)

Regulated DC Power Supply

Nov. 28, 2001

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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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COSEL																																			
Model	LDA30F-3	Temperature	25°C																																
Item	Line Regulation 静の入力変動	Testing Circuitry	Figure A																																
Object	+3.0V6A																																		
<p>1. Graph</p> <p style="text-align: right;"> □ Load 50% △ Load 100% </p> <p style="text-align: center;">Output Voltage [V]</p> <p style="text-align: center;">Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注) 斜線は定格入力電圧範囲を示す。</p>		<p>2. Values</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>150</td><td>3.060</td><td>3.058</td></tr> <tr><td>160</td><td>3.060</td><td>3.058</td></tr> <tr><td>170</td><td>3.060</td><td>3.058</td></tr> <tr><td>180</td><td>3.060</td><td>3.058</td></tr> <tr><td>200</td><td>3.060</td><td>3.058</td></tr> <tr><td>220</td><td>3.060</td><td>3.058</td></tr> <tr><td>240</td><td>3.060</td><td>3.058</td></tr> <tr><td>264</td><td>3.060</td><td>3.058</td></tr> <tr><td>280</td><td>3.060</td><td>3.058</td></tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	3.060	3.058	160	3.060	3.058	170	3.060	3.058	180	3.060	3.058	200	3.060	3.058	220	3.060	3.058	240	3.060	3.058	264	3.060	3.058	280	3.060	3.058
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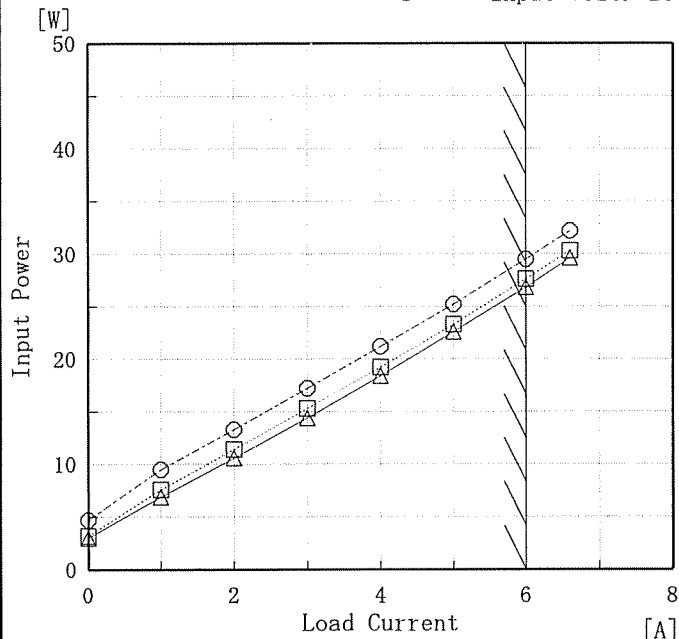


Model	LDA30F-3
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph

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



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

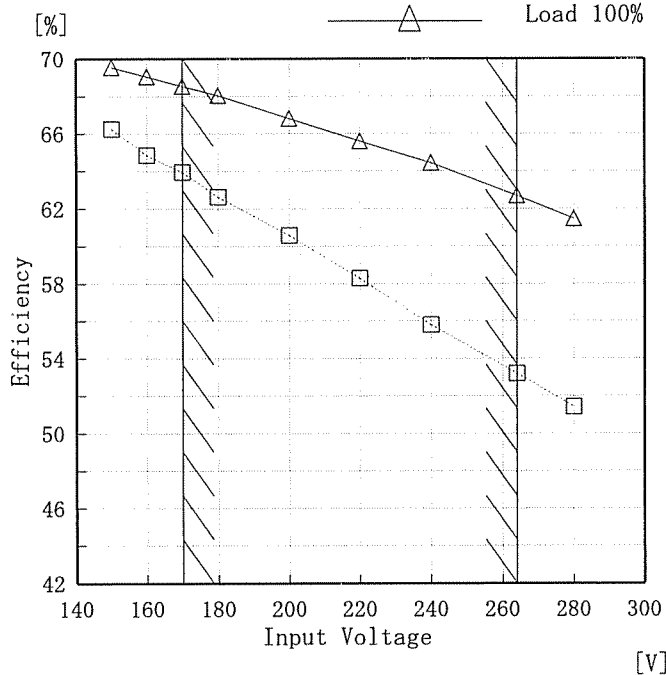
Load Current [A]	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	3.00	3.20	4.70
1.0	6.90	7.60	9.50
2.0	10.60	11.40	13.30
3.0	14.40	15.30	17.20
4.0	18.40	19.20	21.20
5.0	22.60	23.30	25.20
6.0	26.80	27.60	29.50
6.6	29.60	30.30	32.20
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	LDA30F-3
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated input voltage.

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2. Values

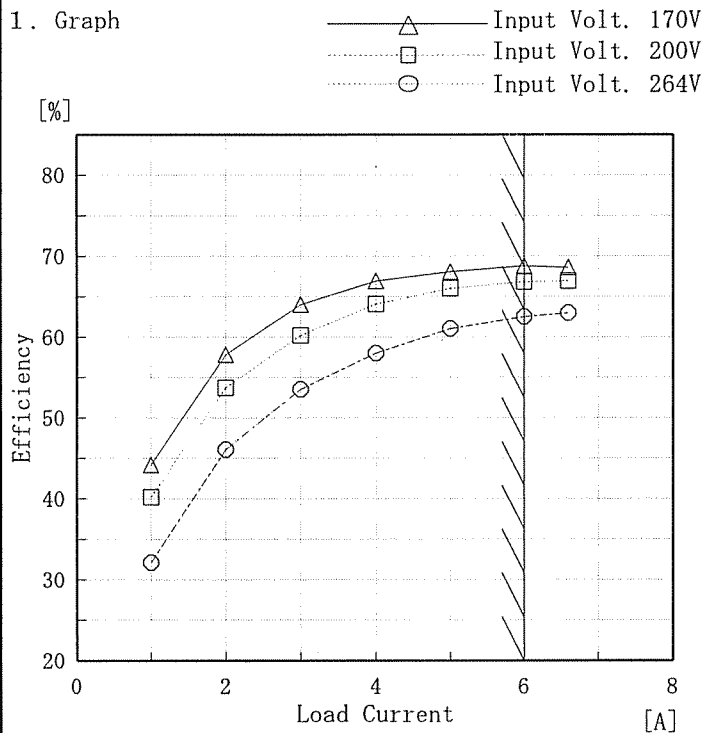
Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
150	66.3	69.6
160	64.9	69.0
170	63.9	68.5
180	62.6	68.0
200	60.6	66.8
220	58.3	65.6
240	55.8	64.4
264	53.2	62.7
280	51.4	61.5



Model	LDA30F-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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
1.0	44.2	40.2	32.1
2.0	57.8	53.8	46.1
3.0	64.0	60.2	53.5
4.0	66.9	64.1	58.0
5.0	68.1	66.0	61.1
6.0	68.8	66.8	62.5
6.6	68.6	66.9	63.0
—	—	—	—
—	—	—	—
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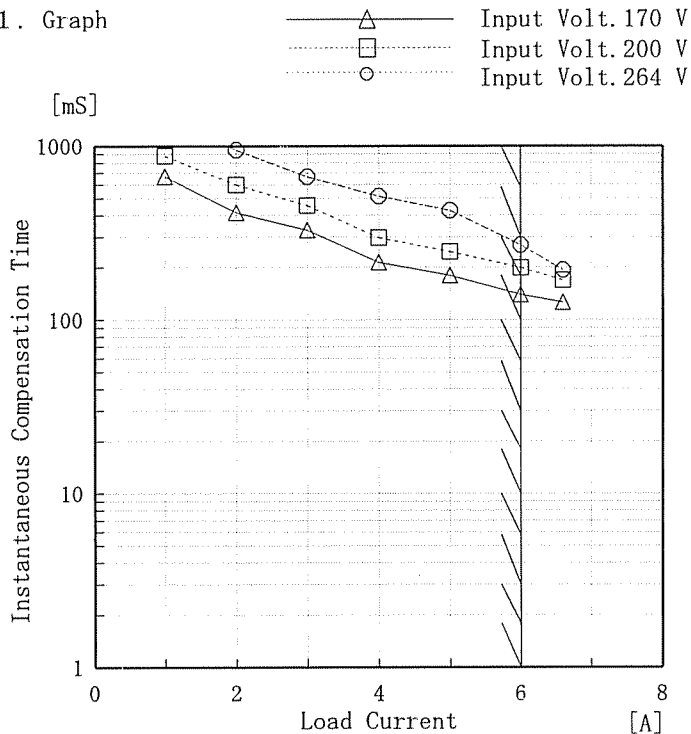
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Model	LDA30F-3
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+3.0V6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Time [mS]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	—	—	—
1.0	669	876	1428
2.0	415	600	950
3.0	329	455	665
4.0	214	297	515
5.0	180	246	425
6.0	140	199	269
6.6	126	169	194
—	—	—	—
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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。



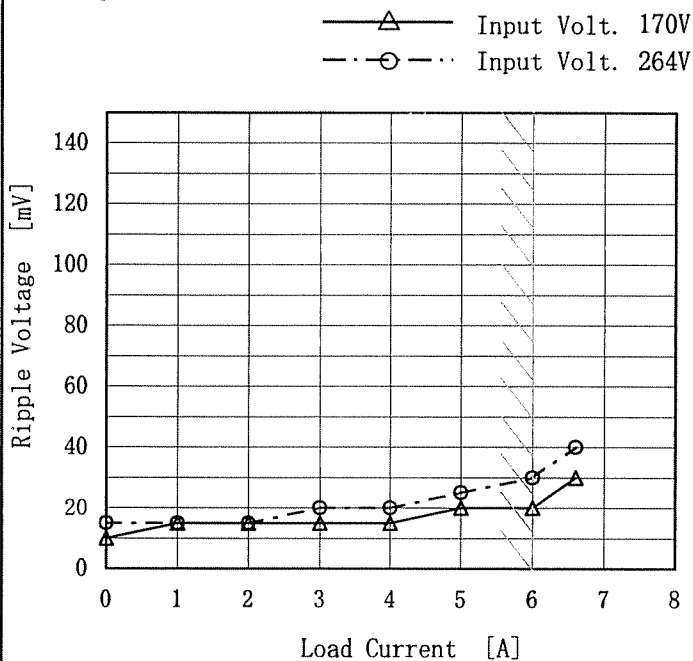
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<p>1. Graph</p> <p> △ Input Volt. 170 V □ Input Volt. 200 V ○ Input Volt. 264 V </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>3.061</td><td>3.061</td><td>3.061</td></tr> <tr><td>1.0</td><td>3.061</td><td>3.061</td><td>3.060</td></tr> <tr><td>2.0</td><td>3.060</td><td>3.060</td><td>3.060</td></tr> <tr><td>3.0</td><td>3.060</td><td>3.060</td><td>3.060</td></tr> <tr><td>4.0</td><td>3.059</td><td>3.059</td><td>3.059</td></tr> <tr><td>5.0</td><td>3.059</td><td>3.059</td><td>3.059</td></tr> <tr><td>6.0</td><td>3.058</td><td>3.058</td><td>3.058</td></tr> <tr><td>6.6</td><td>3.058</td><td>3.058</td><td>3.058</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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	3.061	3.061	3.061	1.0	3.061	3.061	3.060	2.0	3.060	3.060	3.060	3.0	3.060	3.060	3.060	4.0	3.059	3.059	3.059	5.0	3.059	3.059	3.059	6.0	3.058	3.058	3.058	6.6	3.058	3.058	3.058	—	—	—	—	—	—	—	—
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2.0	3.060	3.060	3.060																																														
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COSEL

Model	LDA30F-3
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)
Object	+3V6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	10	15
1.0	15	15
2.0	15	15
3.0	15	20
4.0	15	20
5.0	20	25
6.0	20	30
6.6	30	40
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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

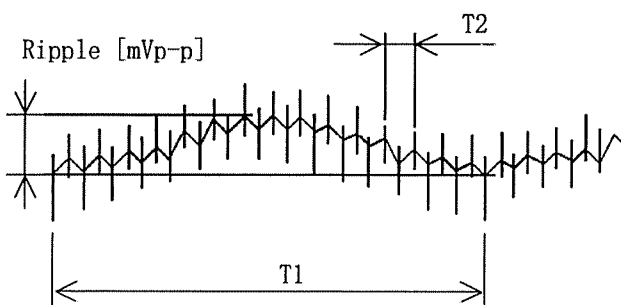


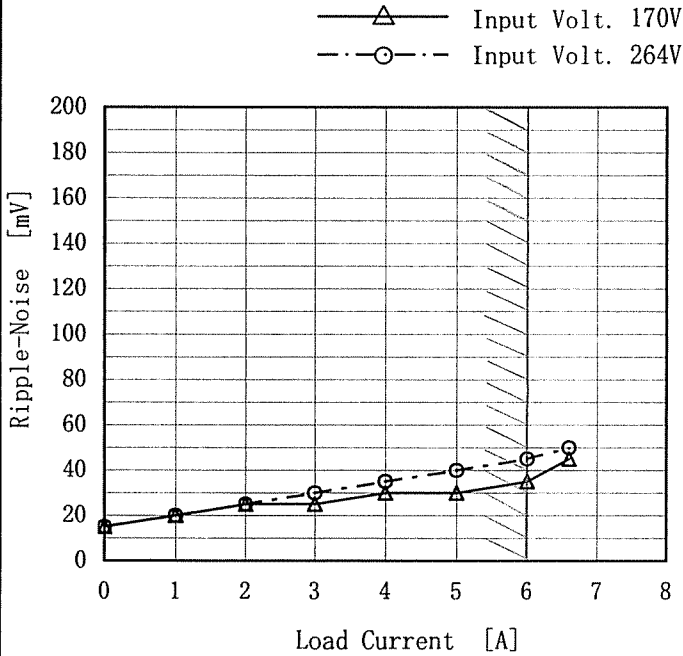
Fig. Complex Ripple Wave Form
図 リップル波形詳細図



Model	LDA30F-3
Item	Ripple-Noise リップルノイズ
Object	+3V10A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	15	15
1.0	20	20
2.0	25	25
3.0	25	30
4.0	30	35
5.0	30	40
6.0	35	45
6.6	45	50
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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

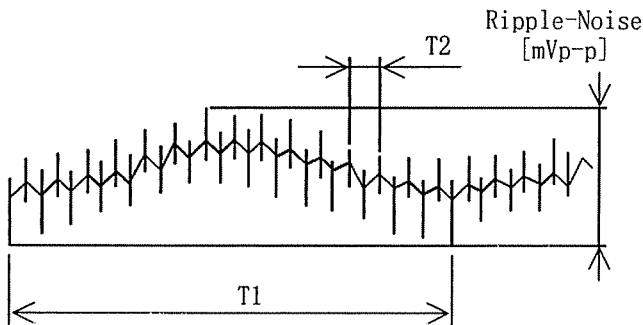


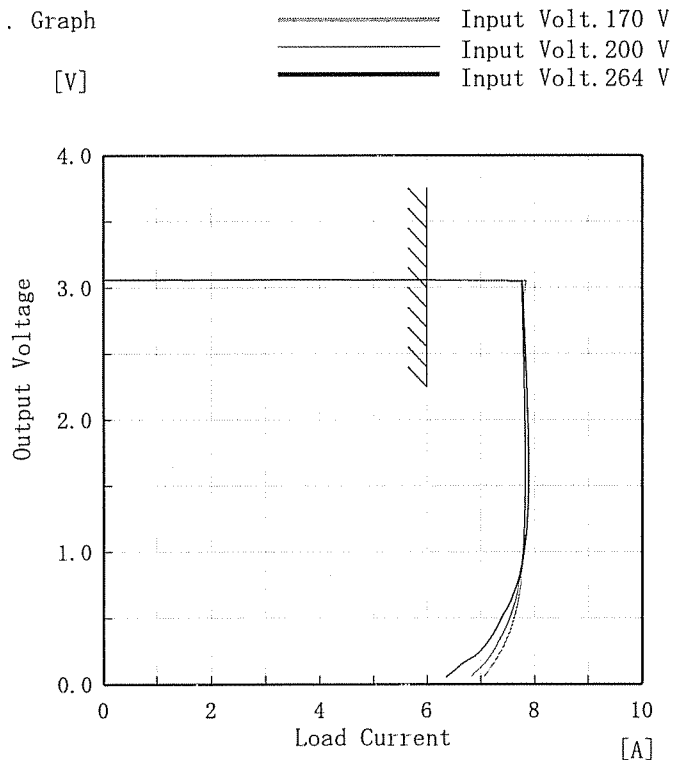
Fig. Complex Ripple Wave Form
図 リップル波形詳細図



Model	LDA30F-3	Temperature	25°C
Item	Overcurrent Protection 過電流保護	Testing Circuitry	Figure A

Object +3.0V6A

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

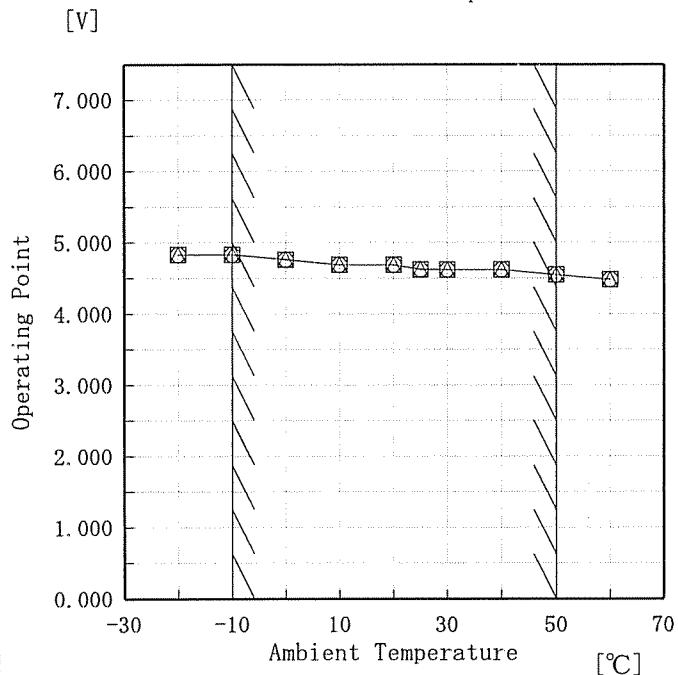
Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
3.00	7.84	7.74	7.75
2.85	7.79	7.77	7.80
2.70	7.79	7.78	7.81
2.40	7.81	7.80	7.84
2.10	7.82	7.82	7.87
1.80	7.83	7.83	7.89
1.50	7.83	7.83	7.89
1.20	7.82	7.81	7.86
0.90	7.78	7.75	7.76
0.60	7.68	7.62	7.53
0.30	7.46	7.32	7.12
0.00	7.06	6.82	6.34



Model	LDA30F-3
Item	Overvoltage Protection 過電圧保護
Object	+3.0V6A

Testing Circuitry Figure A

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



Load 0%

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

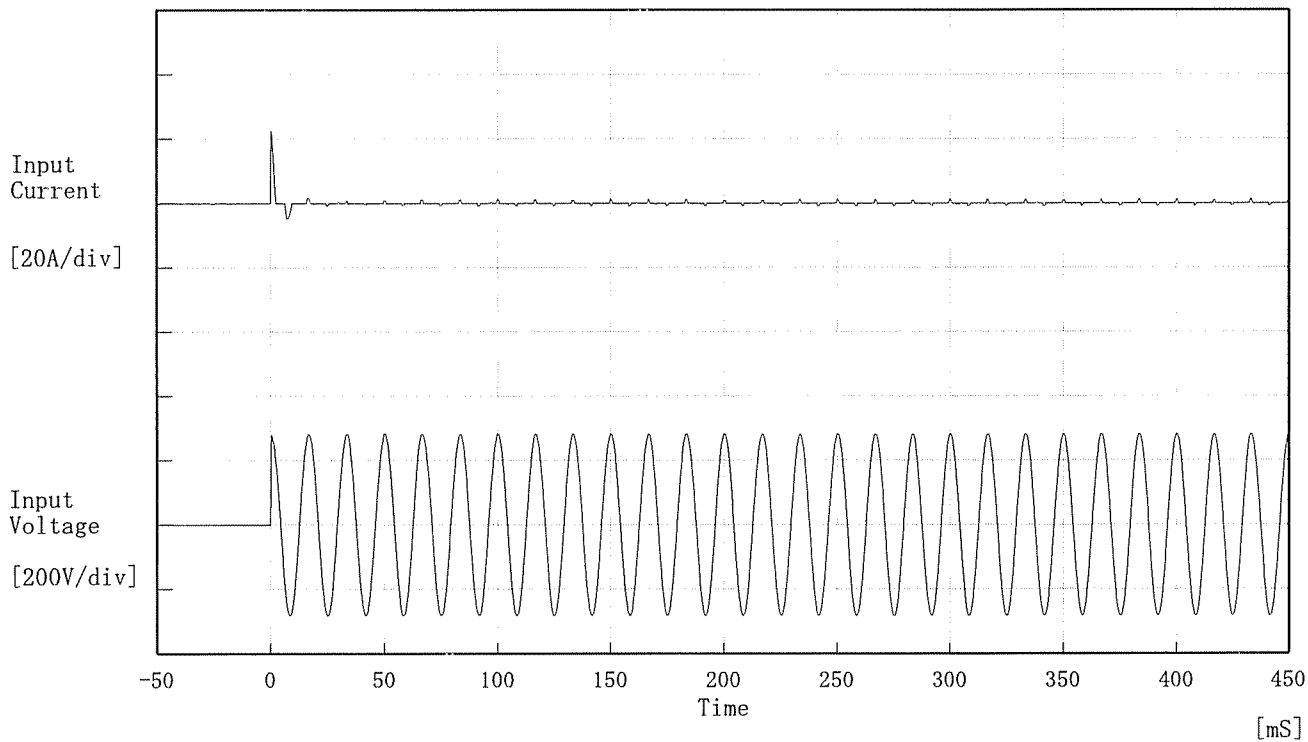
(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	4.83	4.83	4.83
-10	4.83	4.83	4.83
0	4.77	4.76	4.76
10	4.69	4.69	4.69
20	4.69	4.69	4.69
25	4.63	4.62	4.62
30	4.62	4.62	4.62
40	4.62	4.62	4.62
50	4.55	4.55	4.55
60	4.48	4.48	4.48
—	—	—	—



Model	LDA30F-3	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 200 V

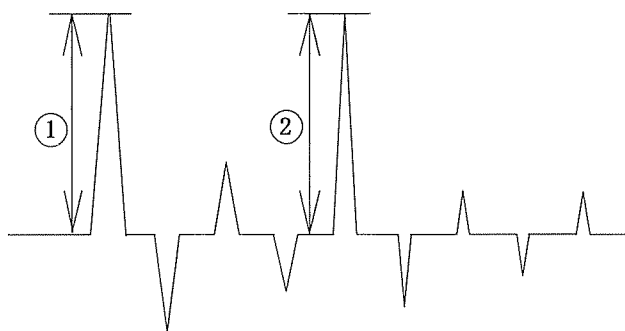
Frequency 60 Hz

Load 100 %

Inrush Current

① 22.40 [A]

② 1.20 [A]

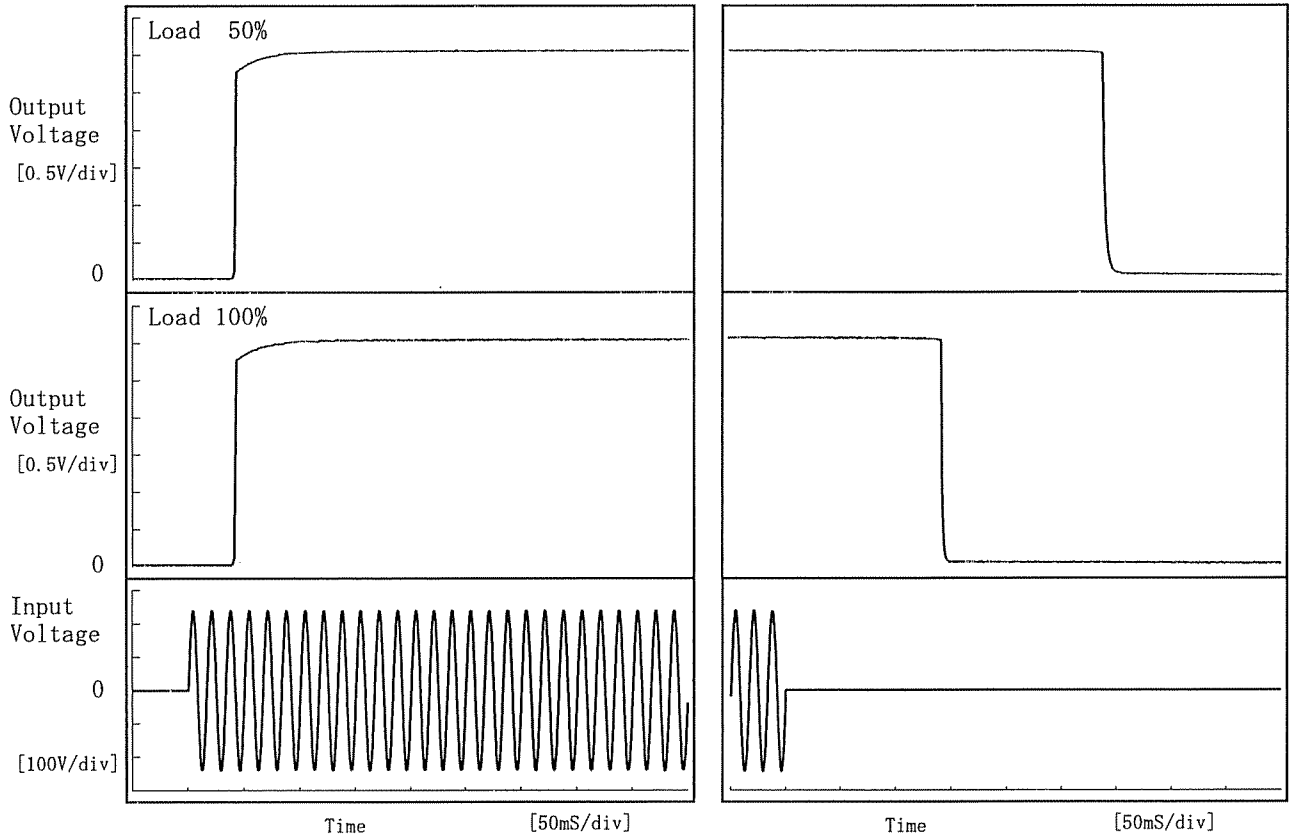




Model	LDA30F-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3.0V6A		

1. Graph

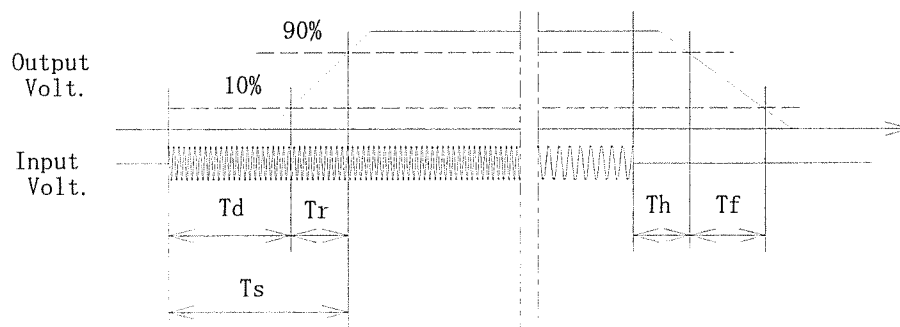
Input Volt. 170 V



2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	40.8	1.5	42.3	287.8	6.0
100 %	41.0	1.8	42.8	141.8	3.0

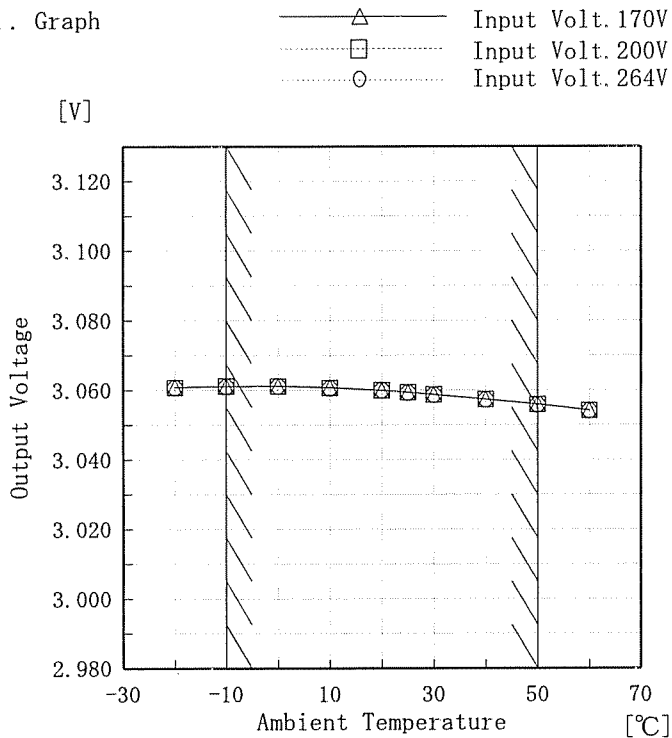




Model	LDA30F-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3.0V6A

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。

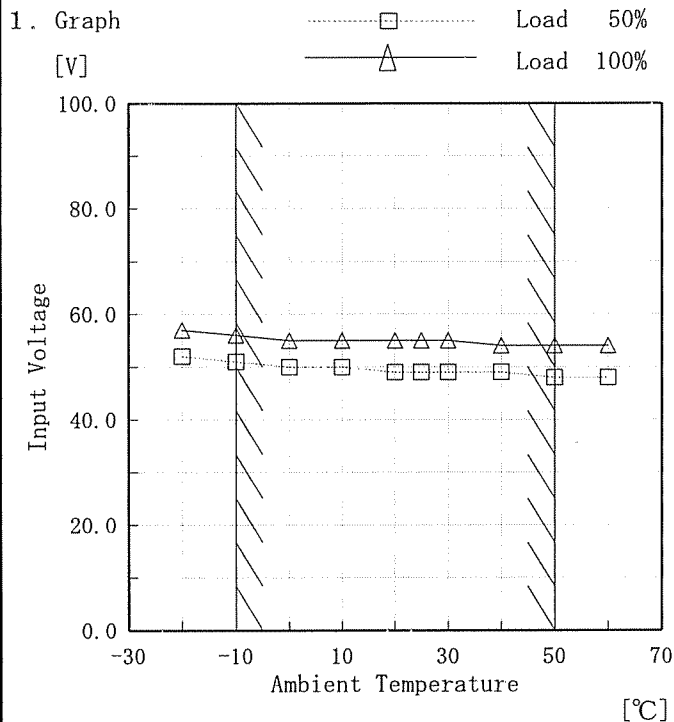
2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	3.061	3.061	3.061
-10	3.061	3.061	3.061
0	3.061	3.061	3.061
10	3.061	3.061	3.061
20	3.060	3.060	3.060
25	3.059	3.059	3.059
30	3.059	3.059	3.059
40	3.057	3.057	3.057
50	3.056	3.056	3.056
60	3.054	3.054	3.054
—	—	—	—



Model	LDA30F-3
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+3.0V6A

Testing Circuitry Figure A



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	52	57
-10	51	56
0	50	55
10	50	55
20	49	55
25	49	55
30	49	55
40	49	54
50	48	54
60	48	54
—	—	—

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

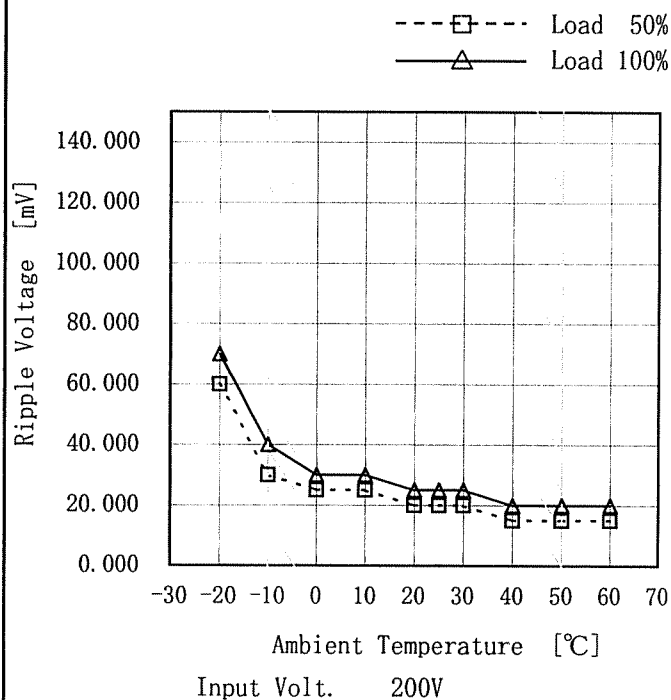
(注)斜線は定格周囲温度範囲を示す。



Model	LDA30F-3
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+3V6A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	60	70
-10	30	40
0	25	30
10	25	30
20	20	25
25	20	25
30	20	25
40	15	20
50	15	20
60	15	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。



COSEL		
Model	LDA30F-3	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+3.0V6A	

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 : 170~264 V

Load Current : 0~6 A

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

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

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 170~264 V

負荷電流 0~6 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

$$* \text{ 定電圧精度(変動率) } = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

2. Values

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	170	0	3.063	±4	±0.2
Minimum Voltage	50	264	6	3.055		

COSEL

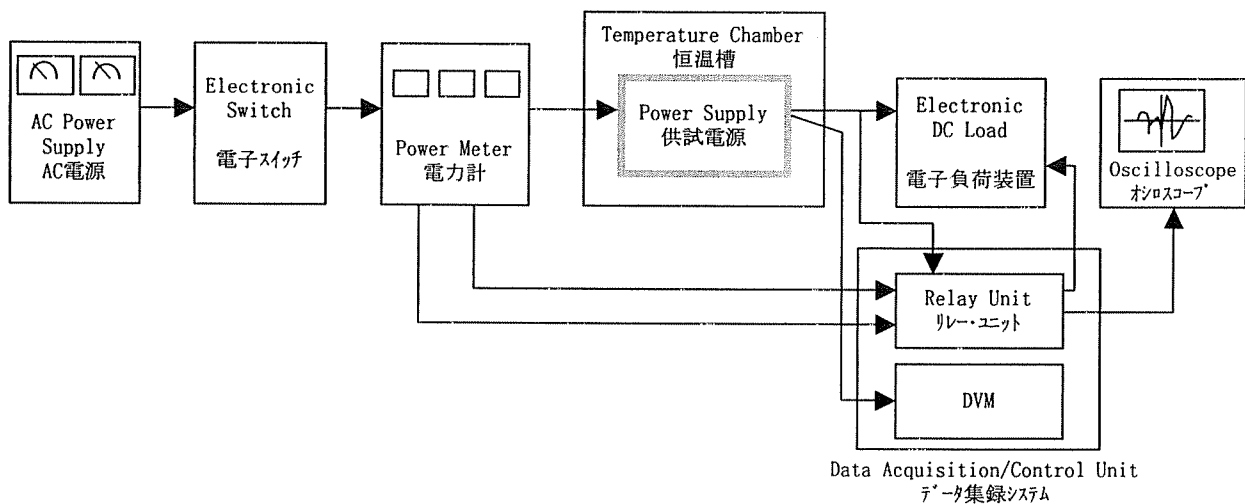


Figure A