



TEST DATA OF LDA30F-3

(100V INPUT)

Regulated DC Power Supply

Nov. 28, 2001

Approved by : H. Shibutani
Design Manager

Prepared by : M. Hamaguchi
Design Engineer

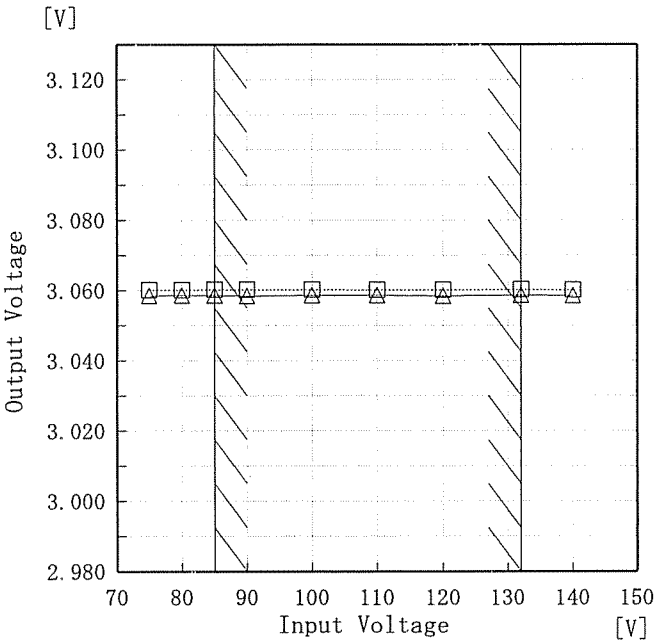
コーセル株式会社
COSEL CO., LTD.

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Model LDA30F-3		Temperature 25°C Testing Circuitry Figure A																																
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Object	+3.0V6A																																	
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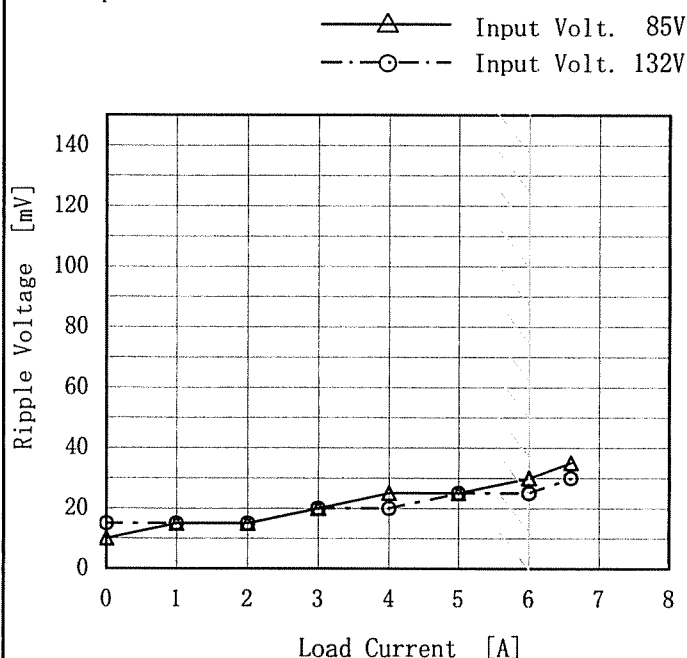
Model		LDA30F-3	Temperature		25℃																																															
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Object		+3.0V6A																																																		
1. Graph			2. Values																																																	
<div><div><div>△</div><div>□</div><div>○</div></div><div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div></div> <table><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><tr><td>0.0</td><td>3.061</td><td>3.061</td><td>3.061</td></tr><tr><td>1.0</td><td>3.060</td><td>3.060</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>3.058</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></table>			Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	3.061	3.061	3.061	1.0	3.060	3.060	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	3.058	3.059	3.059	6.0	3.058	3.058	3.058	6.6	3.058	3.058	3.058	—	—	—	—	—	—	—	—			
Load Current [A]	Output Voltage [V]																																																			
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																	
0.0	3.061	3.061	3.061																																																	
1.0	3.060	3.060	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	3.058	3.059	3.059																																																	
6.0	3.058	3.058	3.058																																																	
6.6	3.058	3.058	3.058																																																	
—	—	—	—																																																	
—	—	—	—																																																	
<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>																																																				

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. 85 [V]	Input Volt. 132 [V]
0.0	10	15
1.0	15	15
2.0	15	15
3.0	20	20
4.0	25	20
5.0	25	25
6.0	30	25
6.6	35	30
---	---	---
---	---	---
---	---	---

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

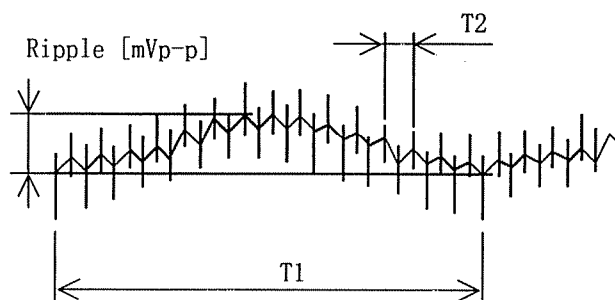


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

COSEL

Model		LDA30F-3	Temperature 25℃ Testing Circuitry Figure A
Item		Ripple-Noise リップルノイズ	
Object		+3V10A	

1. Graph

—△— Input Volt. 85V

-·-○-·- Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

Ripple-Noise [mV]

0

1

2

3

4

5

6

7

8

Load Current [A]

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

Ripple-Noise [mVp-p]

T2

T1

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	10	15
1.0	15	20
2.0	20	20
3.0	20	25
4.0	25	25
5.0	30	30
6.0	35	35
6.6	45	50
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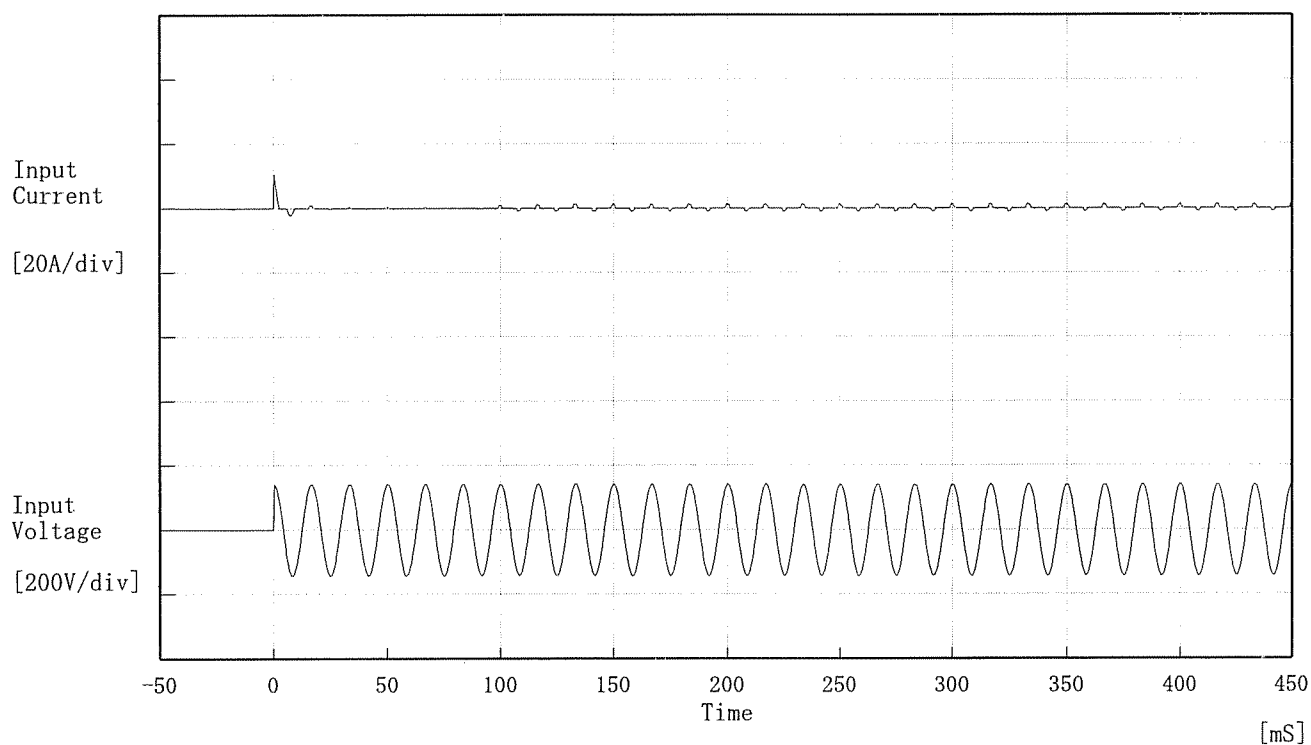
COSEL

Model		LDA30F-3	Temperature25℃ Testing CircuitryFigure A	
Item		Overcurrent Protection 過電流保護		
Object		+3.0V6A		
1. Graph			2. Values	
<div><div>[V]</div><div><div><div></div></div><div></div><div></div></div><div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div></div> <div><div><div>Output Voltage</div><div>[V]</div><div>4.0</div><div>3.0</div><div>2.0</div><div>1.0</div><div>0.0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COSEL

COSEL

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



Input Voltage 100 V

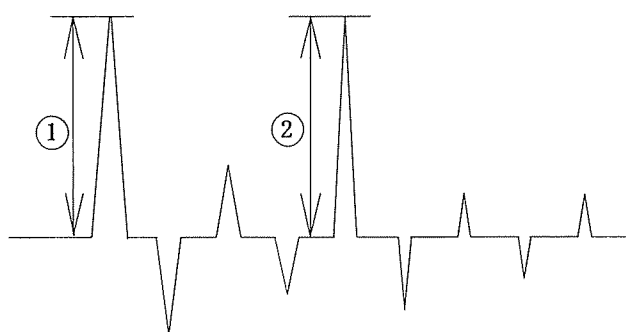
Frequency 60 Hz

Load 100 %

Inrush Current

① 10.40 [A]

② 1.20 [A]

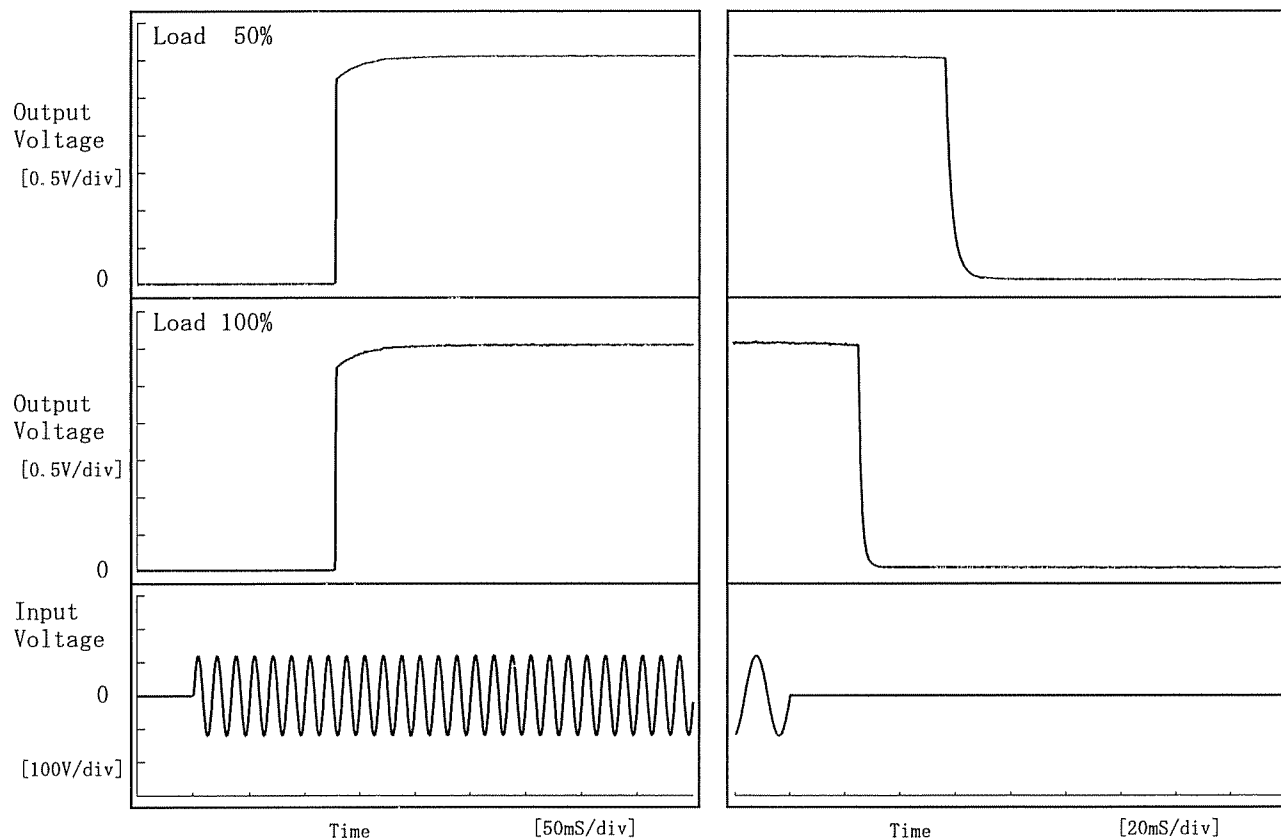


COSEL

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

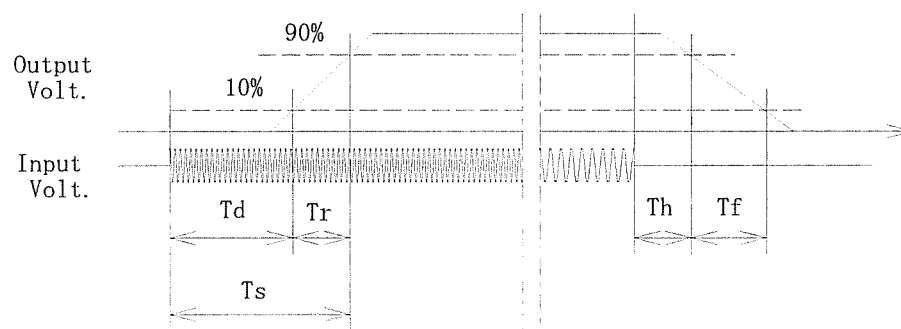
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	127.0	1.3	128.3	56.6	6.0
100 %	127.3	1.3	128.5	25.4	2.8



COSEL

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

1. Graph

△

—

Input Volt. 85V

□

—

Input Volt. 100V

○

—

Input Volt. 132V

Output Voltage

[V]

COSEL

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

1. Graph

□ Load 50%

△ Load 100%

Input Voltage [V]

100.0

80.0

60.0

40.0

20.0

0.0

30

10

10

10

10

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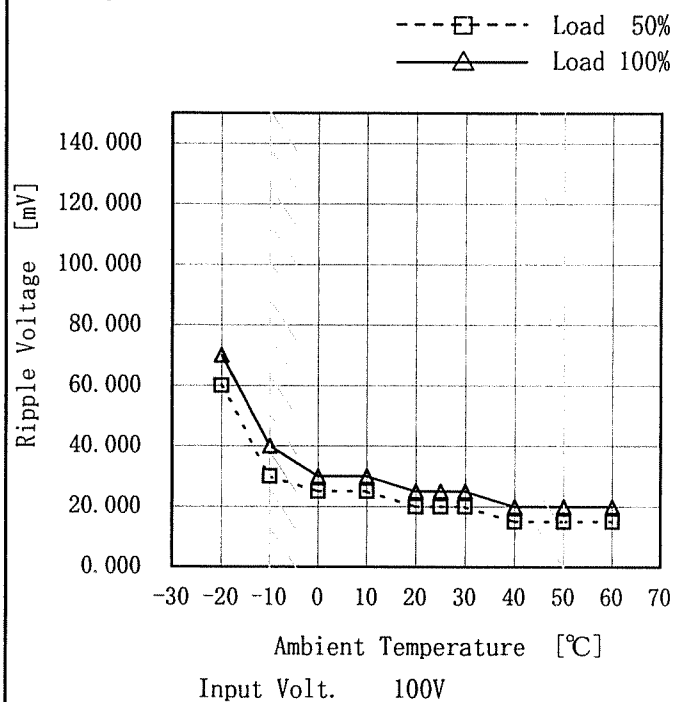
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COSEL

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

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。

Testing Circuitry Figure A

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
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COSEL

Model		LDA30F-3	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
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 : 85~132 V

Load Current : 0~6 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 0~6 A

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

* 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	100	0	3.063	±4	±0.2
Minimum Voltage	50	132	6	3.056		

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