



TEST DATA OF LDA150W-3 (100V INPUT)

Regulated DC Power Supply

Nov. 27, 2001

Approved by : K. Shibutani
Design Manager

Prepared by : M. Hamaguchi
Design Engineer

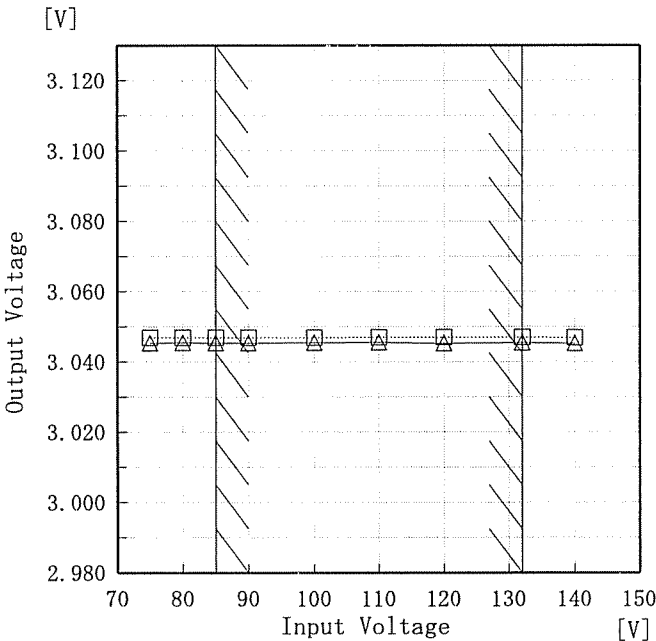
コーセル株式会社
COSEL CO., LTD.

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Model		LDA150W-3	Temperature Testing Circuitry	25℃ Figure A																																
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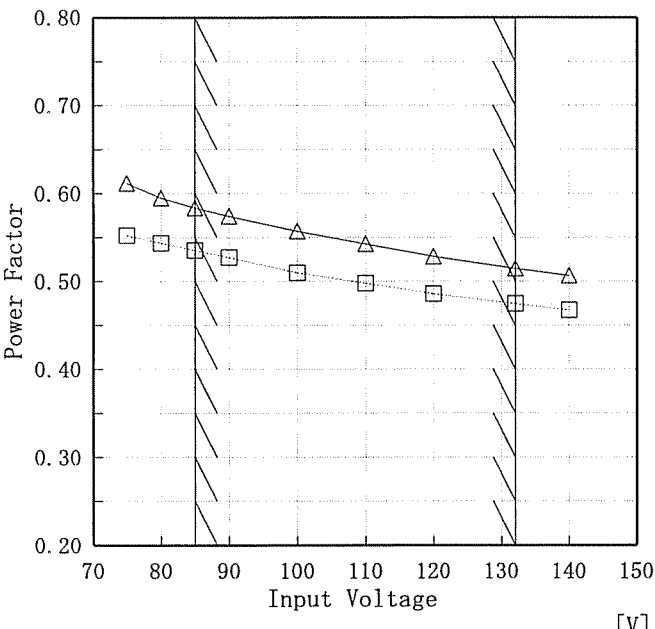
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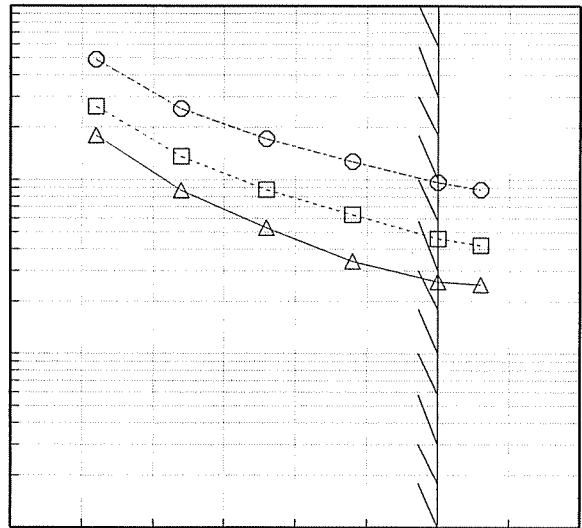
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COSEL

Model		LDA150W-3	Temperature Testing Circuitry	25℃ Figure A																															
Item		Hold-Up Time 出力保持時間																																	
Object		+3.0V30A																																	
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Input Voltage [V]	Hold-Up Time [mS]																																		
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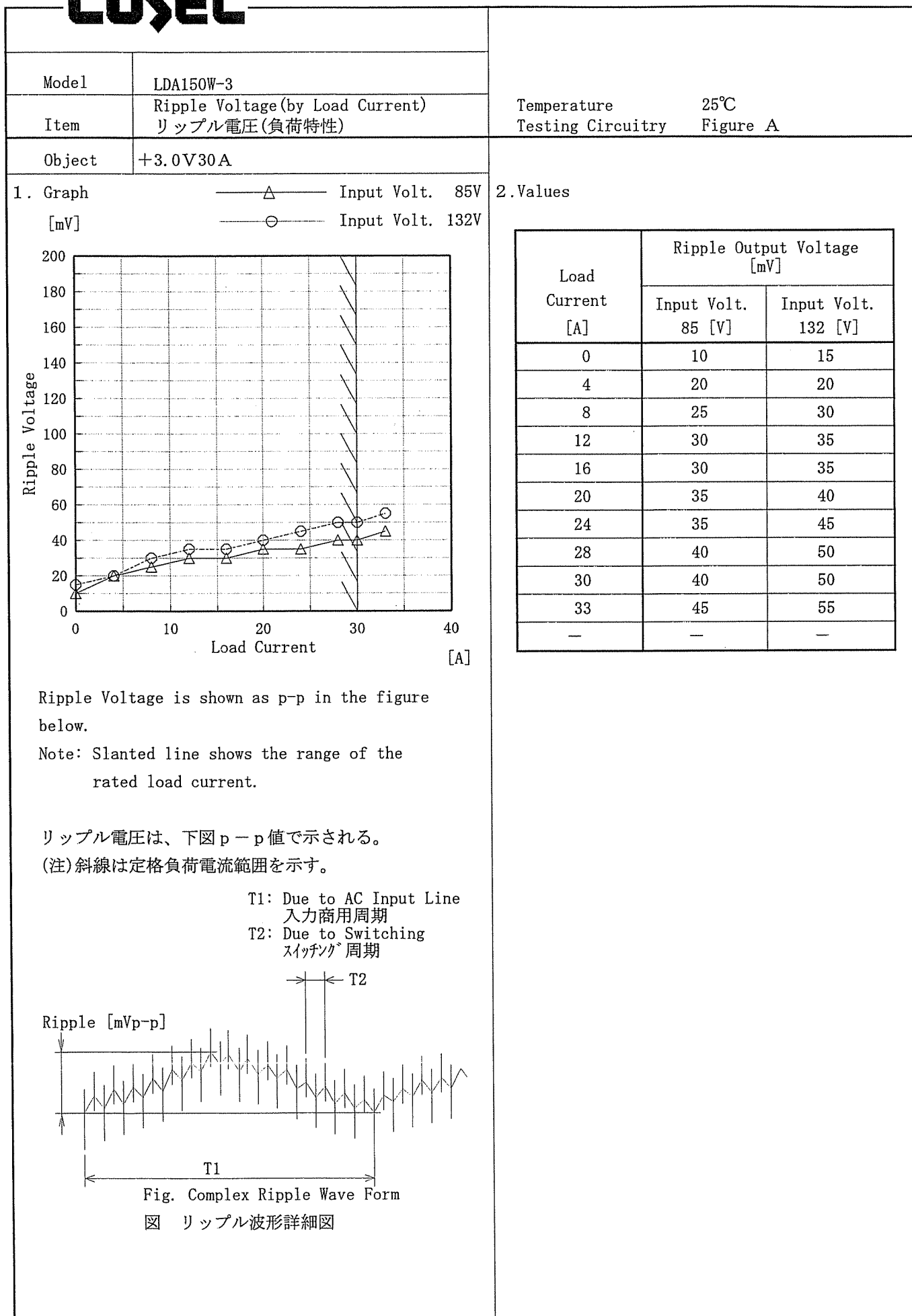
COSEL

Model		LDA150W-3	Temperature Testing Circuitry	25℃ Figure A																																																		
Item		Instantaneous Interruption Compensation 瞬時停電保障																																																				
Object		+3.0V30A																																																				
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> <div><div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div>Instantaneous Compensation Time</div><div><div>0</div><div>10</div><div>20</div><div>30</div><div>40</div></div><div>Load Current [A]</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><p>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。</p><p>(注)斜線は定格負荷電流範囲を示す。</p></div>			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</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</td><td>—</td><td>—</td><td>—</td></tr><tr><td>6</td><td>180</td><td>264</td><td>491</td></tr><tr><td>12</td><td>87</td><td>136</td><td>256</td></tr><tr><td>18</td><td>53</td><td>88</td><td>172</td></tr><tr><td>24</td><td>34</td><td>63</td><td>127</td></tr><tr><td>30</td><td>26</td><td>46</td><td>97</td></tr><tr><td>33</td><td>25</td><td>42</td><td>88</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]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	—	—	—	6	180	264	491	12	87	136	256	18	53	88	172	24	34	63	127	30	26	46	97	33	25	42	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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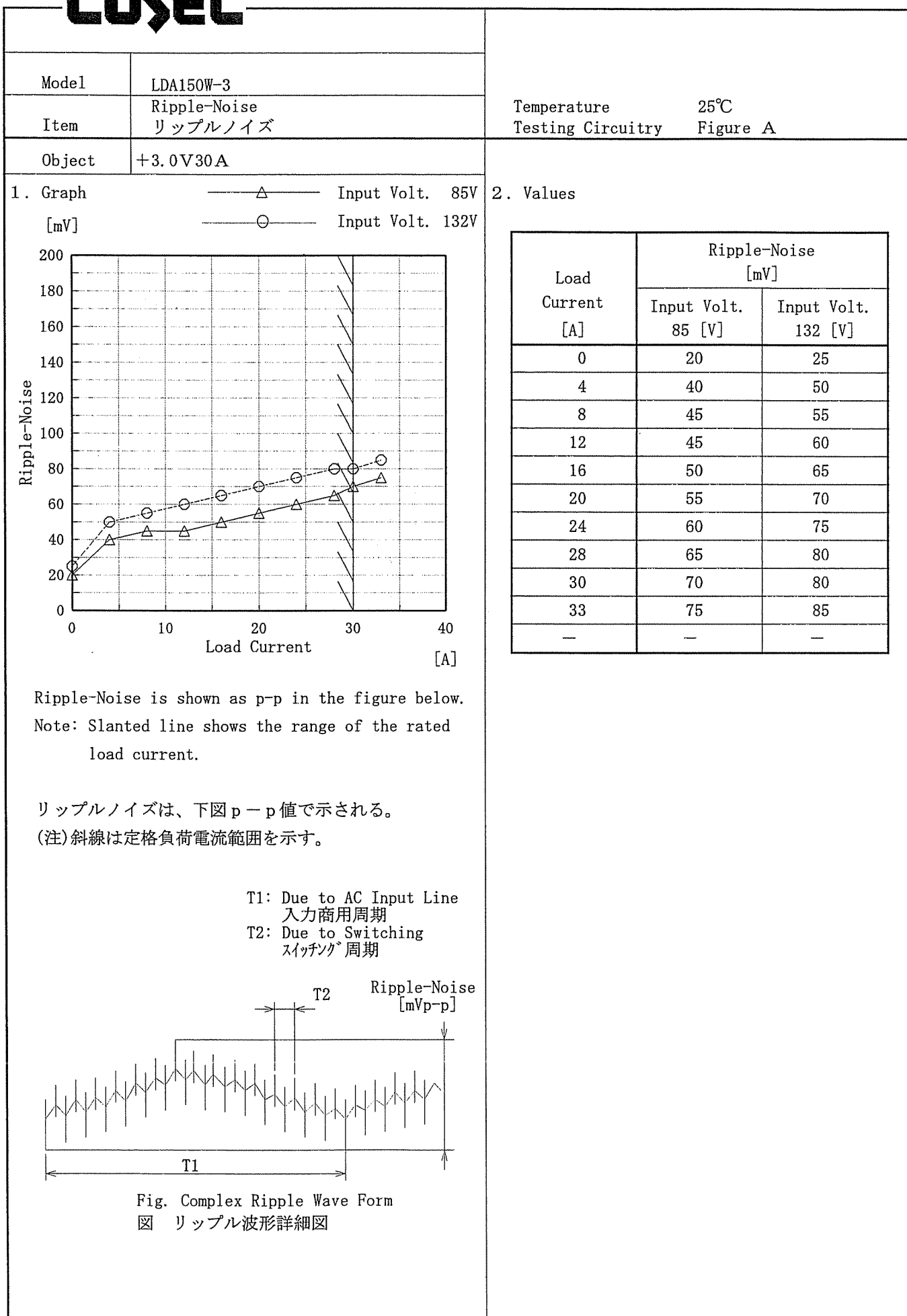
COSEL

Model	LDA150W-3																																																	
Item	Load Regulation 静的負荷変動	Temperature	25℃																																															
		Testing Circuitry	Figure A																																															
Object	+3.0V30A																																																	
1. Graph		2. Values																																																
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COSEL



COSEL



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Model		LDA150W-3	Temperature25℃ Testing CircuitryFigure A
Item		Overcurrent Protection 過電流保護	
Object		+3.0V30A	

1. Graph

Input Volt. 85 V

Input Volt. 100 V

Input Volt. 132 V

[V]

4.0

3.0

2.0

1.0

0.0

0

10

20

30

40

50

Output Voltage

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. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
3.00	39.02	39.19	39.15
2.85	39.19	39.22	39.37
2.70	39.40	39.31	39.46
2.40	39.44	39.56	39.71
2.10	39.67	39.72	39.97
1.80	39.86	39.93	40.22
1.50	40.09	40.11	40.19
1.20	40.36	40.11	40.65
0.90	40.59	40.58	40.54
0.60	40.55	40.39	40.16
0.30	39.95	39.73	38.90
0.00	39.27	38.97	38.23

COSEL

Model		LDA150W-3
Item		Overvoltage Protection 過電圧保護
Object		+3.0V30A

1. Graph

—△— Input Volt. 85 V

---□--- Input Volt. 100 V

---○--- Input Volt. 132 V

[V]

Operating Point [V]

Ambient Temperature [°C]

Load 0%

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

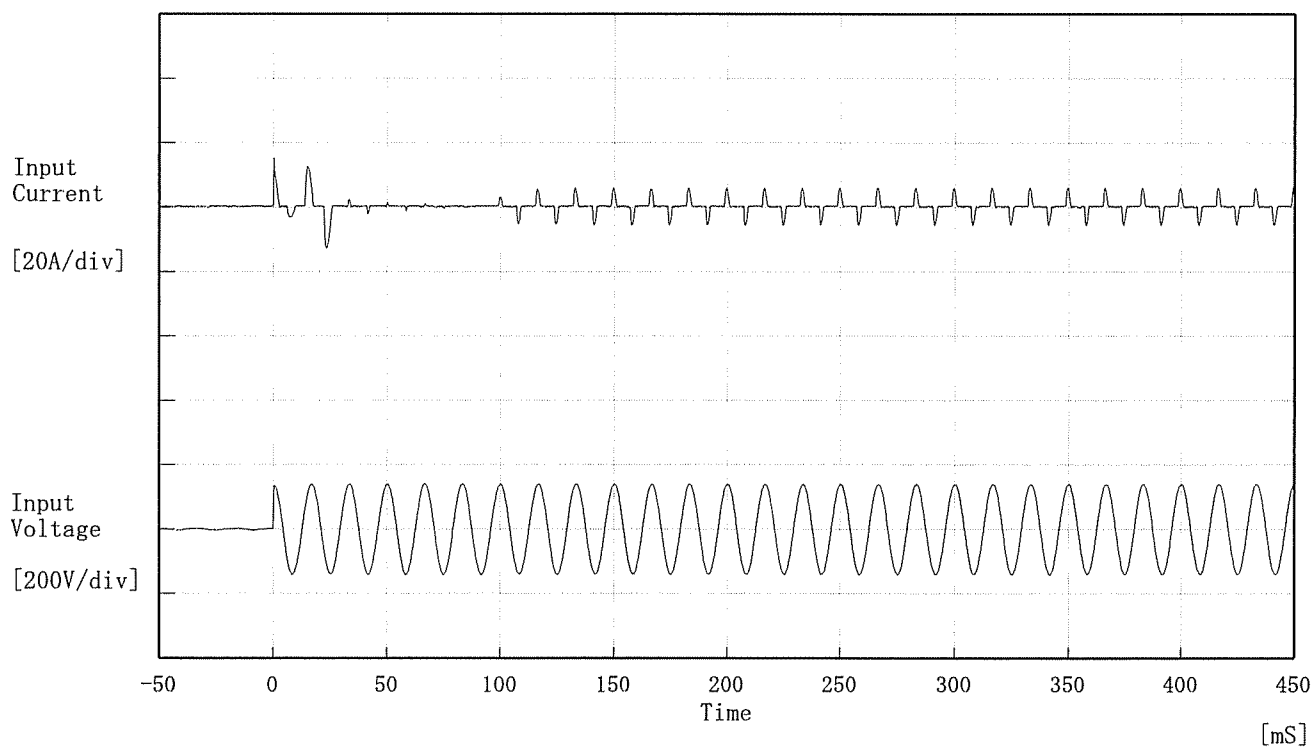
(注)斜線は定格周囲温度範囲を示す。

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
—	—	—	—

COSEL

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



Input Voltage 100 V

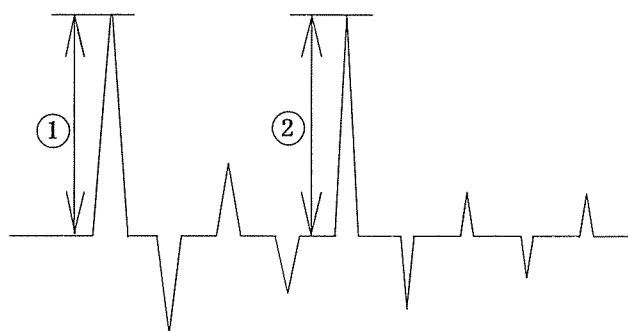
Frequency 60 Hz

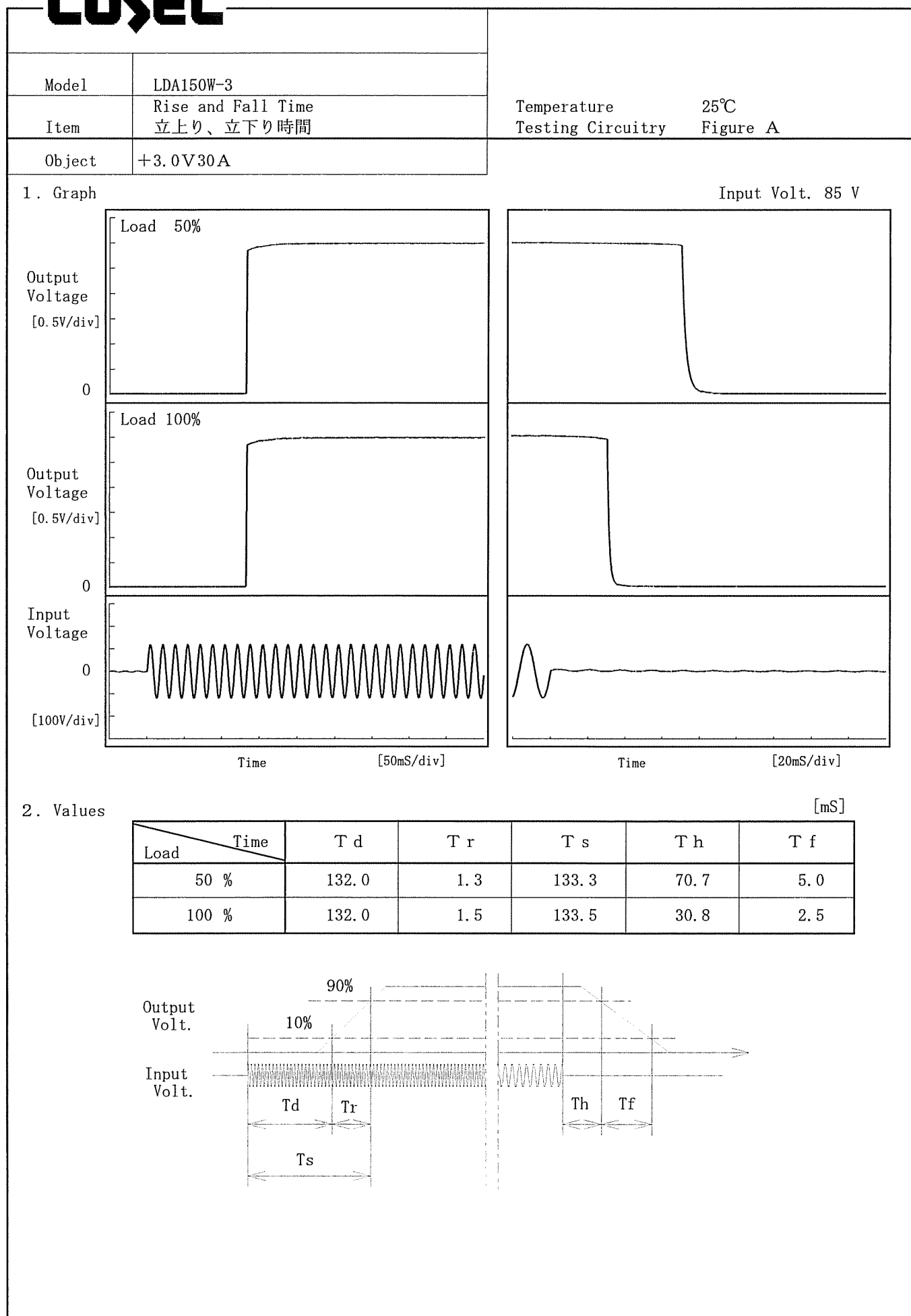
Load 100 %

Inrush Current

① 15.18 [A]

② 5.98 [A]



COSEL

COSEL

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

1. Graph

△

□

○

Input Volt. 85V

Input Volt. 100V

Input Volt. 132V

Output Voltage [V]

</

COSEL

Model LDA150W-3		Testing Circuitry Figure A																																						
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object	+3.0V30A																																							
<p>1. Graph</p> <p>[V]</p> <p>100.0</p> <p>80.0</p> <p>60.0</p> <p>40.0</p> <p>20.0</p> <p>0.0</p> <p>Input Voltage</p> <p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>Ambient Temperature [°C]</p> <p>-30 -10 10 30 50 70</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>		<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>48</td><td>56</td></tr> <tr><td>-10</td><td>47</td><td>56</td></tr> <tr><td>0</td><td>47</td><td>56</td></tr> <tr><td>10</td><td>47</td><td>55</td></tr> <tr><td>20</td><td>46</td><td>55</td></tr> <tr><td>25</td><td>46</td><td>55</td></tr> <tr><td>30</td><td>46</td><td>55</td></tr> <tr><td>40</td><td>46</td><td>55</td></tr> <tr><td>50</td><td>46</td><td>55</td></tr> <tr><td>60</td><td>46</td><td>55</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	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	—	—	—
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COSEL

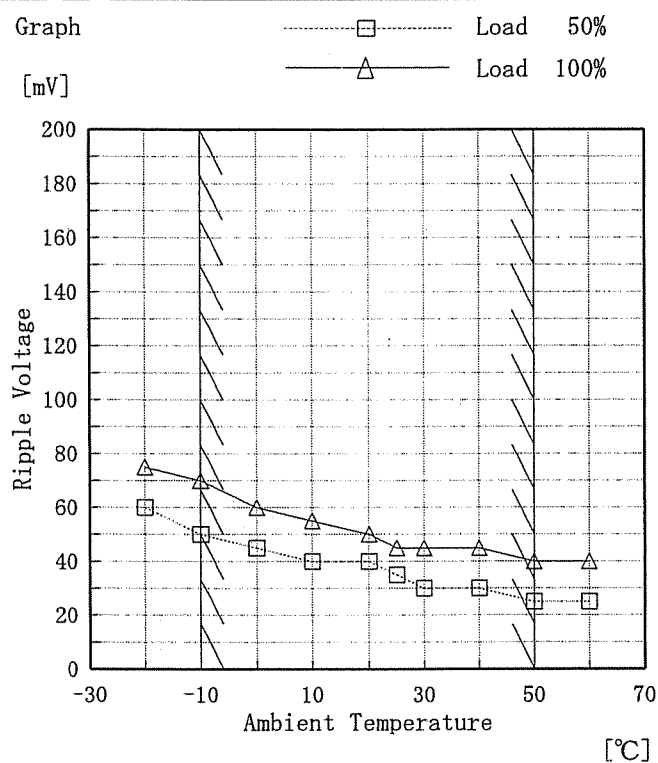
Model LDA150W-3

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



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
—	—	—

COSEL

Model		LDA150W-3	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
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		

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