



TEST DATA OF LDA300W-3 (100V INPUT)

Regulated DC Power Supply
Dec. 7. 2001

Approved by : M. Miyazawa
Design Manager

Prepared by : T. Mizukawa
Design Engineer

コーワセル株式会社
COSEL CO.,LTD.



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Model	LDA300W-3																																	
Item	Line Regulation 静的入力変動	Temperature 25°C Testing Circuitry Figure A																																
Object	+3V60A																																	
1. Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Load 50%</p> <p>Load 100%</p>																																		
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Model	LDA300W-3
Item	Efficiency (by Load Current) 効率(負荷特性)
Object	_____

1. Graph

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	—	—	—
10	69.6	67.6	61.8
20	74.0	73.2	70.0
30	74.5	74.1	72.4
40	73.7	73.9	73.1
50	72.4	72.9	72.8
60	71.2	71.7	72.1
66	70.0	71.0	71.5
--	—	—	—
--	—	—	—
--	—	—	—

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。

Temperature 25°C
Testing Circuitry Figure A

COSEL

Model	LDA300W-3																																	
Item	Hold-Up Time 出力保持時間	Temperature Testing Circuitry 25°C Figure A																																
Object	+3V60A																																	
1. Graph																																		
<p>Detailed description: The graph plots Hold-Up Time in milliseconds on a logarithmic scale against Input Voltage in Volts. The Y-axis has major ticks at 1, 10, 100, and 1000. The X-axis has major ticks at 70, 90, 110, 130, and 150. Two data series are plotted: 'Load 50%' represented by a dashed line with open square markers, and 'Load 100%' represented by a solid line with open triangle markers. Both series show an upward trend. A diagonal line with a positive slope is drawn across the graph, representing the rated input voltage range.</p>																																		
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132	235	113																																
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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、入力電圧断続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>																																		

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Model	LDA300W-3																																																				
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature Testing Circuitry	25°C Figure A																																																		
Object	+3V60A																																																				
1. Graph																																																					
<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 85V (solid line with open triangles) Input Volt. 100V (dashed line with open squares) Input Volt. 132V (dash-dot line with open circles) 																																																					
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Model	LDA300W-3
Item	Load Regulation 靜的負荷変動
Object	+3V60A

1. Graph

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

Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	3.044	3.044	3.044
10	3.038	3.038	3.038
20	3.031	3.031	3.032
30	3.025	3.025	3.025
40	3.019	3.019	3.019
50	3.012	3.013	3.013
60	3.006	3.006	3.006
66	3.002	3.002	3.002
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--	--	--	--

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。

Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	3.044	3.044	3.044
10	3.038	3.038	3.038
20	3.031	3.031	3.032
30	3.025	3.025	3.025
40	3.019	3.019	3.019
50	3.012	3.013	3.013
60	3.006	3.006	3.006
66	3.002	3.002	3.002
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COSEL

Model	LDA300W-3																																							
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Temperature 25°C Testing Circuitry Figure A																																						
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<p>Ripple Voltage is shown as p-p in the figure below. 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 T2: Due to Switching</p>																																								
<p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>																																								

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Model	LDA300W-3		Temperature Testing Circuitry 25°C Figure A																																						
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Load Current [A]	Ripple-Noise [mV]																																								
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Model	LDA300W-3
Item	Overcurrent Protection 過電流保護
Object	+3V60A

1. Graph

Output Voltage [V]

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。

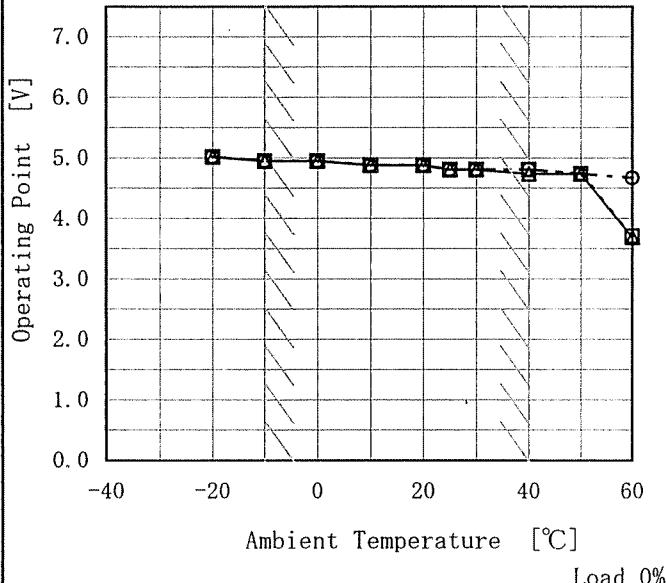
Intermittent operation occurs when the output voltage is from 2V to 0V.
2V~0V間は、間欠モードとなる。

Temperature 25°C
Testing Circuitry Figure A

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
3.00	65.86	65.84	65.98
2.85	71.38	71.71	72.34
2.70	71.44	71.77	72.46
2.40	71.62	72.01	72.91
2.10	71.89	72.49	73.15
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COSEL

Model	LDA300W-3																																																					
Item	Overvoltage Protection 過電圧保護																																																					
Object	+3V60A																																																					
1. Graph	<p>—△— Input Volt. 85V - - -□- - - Input Volt. 100V - - ○- - - Input Volt. 132V</p> 																																																					
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Operating Point [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>-20</td> <td>5.02</td> <td>5.02</td> <td>5.02</td> </tr> <tr> <td>-10</td> <td>4.95</td> <td>4.95</td> <td>4.95</td> </tr> <tr> <td>0</td> <td>4.95</td> <td>4.95</td> <td>4.95</td> </tr> <tr> <td>10</td> <td>4.88</td> <td>4.88</td> <td>4.88</td> </tr> <tr> <td>20</td> <td>4.88</td> <td>4.88</td> <td>4.88</td> </tr> <tr> <td>25</td> <td>4.81</td> <td>4.81</td> <td>4.81</td> </tr> <tr> <td>30</td> <td>4.81</td> <td>4.81</td> <td>4.81</td> </tr> <tr> <td>40</td> <td>4.74</td> <td>4.81</td> <td>4.81</td> </tr> <tr> <td>50</td> <td>4.74</td> <td>4.74</td> <td>4.74</td> </tr> <tr> <td>60</td> <td>3.69</td> <td>3.71</td> <td>4.67</td> </tr> <tr> <td>--</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>			Ambient Temperature [°C]	Operating Point [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	5.02	5.02	5.02	-10	4.95	4.95	4.95	0	4.95	4.95	4.95	10	4.88	4.88	4.88	20	4.88	4.88	4.88	25	4.81	4.81	4.81	30	4.81	4.81	4.81	40	4.74	4.81	4.81	50	4.74	4.74	4.74	60	3.69	3.71	4.67	--	—	—	—
Ambient Temperature [°C]	Operating Point [V]																																																					
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-20	5.02	5.02	5.02																																																			
-10	4.95	4.95	4.95																																																			
0	4.95	4.95	4.95																																																			
10	4.88	4.88	4.88																																																			
20	4.88	4.88	4.88																																																			
25	4.81	4.81	4.81																																																			
30	4.81	4.81	4.81																																																			
40	4.74	4.81	4.81																																																			
50	4.74	4.74	4.74																																																			
60	3.69	3.71	4.67																																																			
--	—	—	—																																																			

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

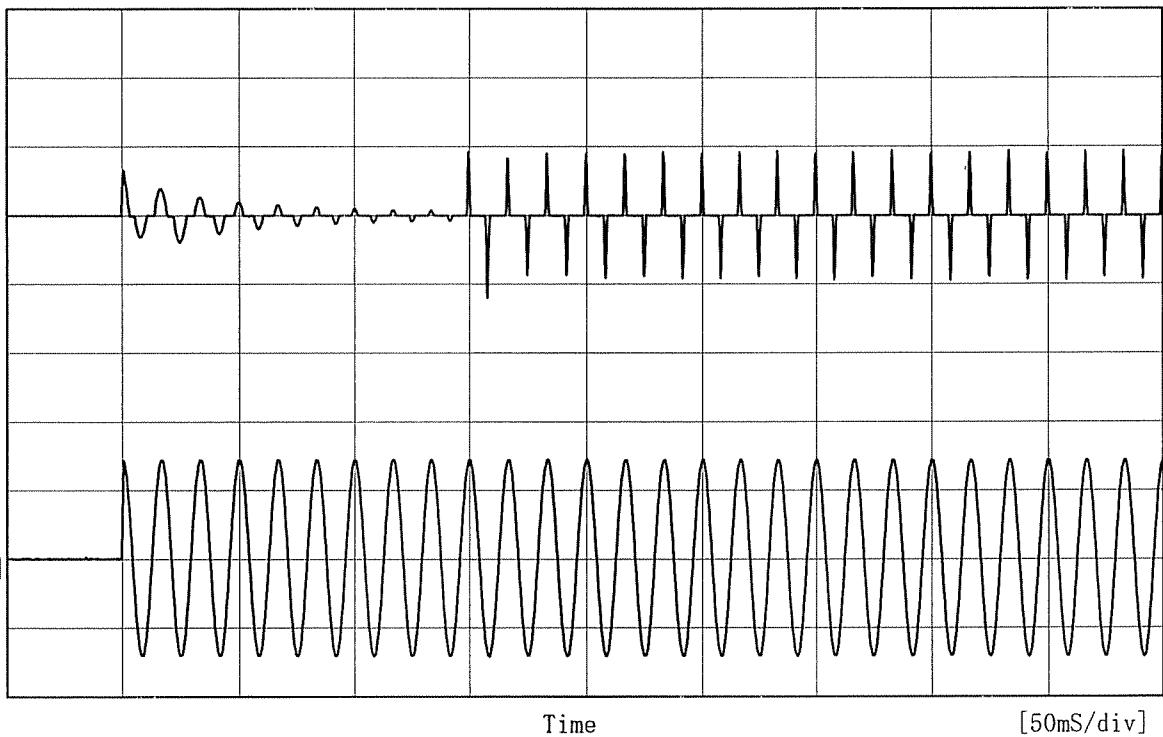
(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model LDA300W-3

Item Inrush Current
突入電流

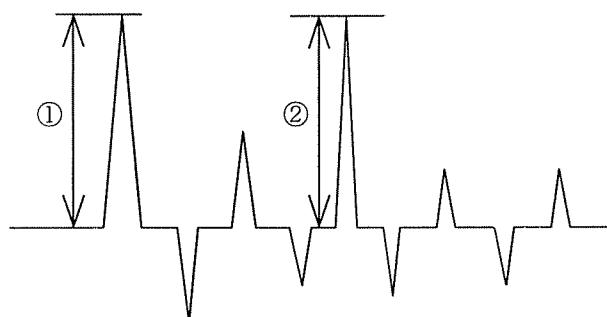
Object _____

Temperature 25°C
Testing Circuitry Figure AInput
Current
[20A/div]

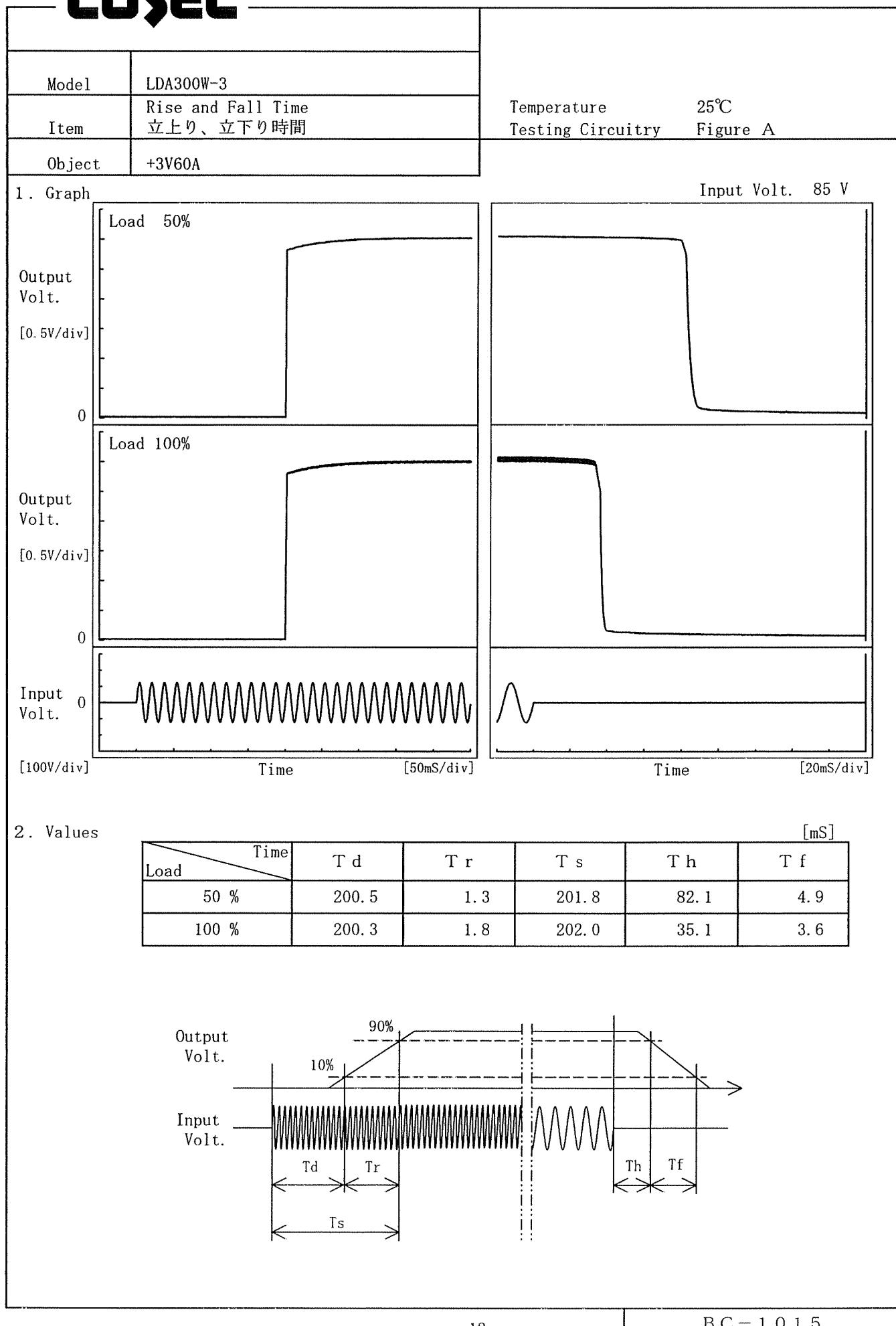
Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current

① 13.1 [A]

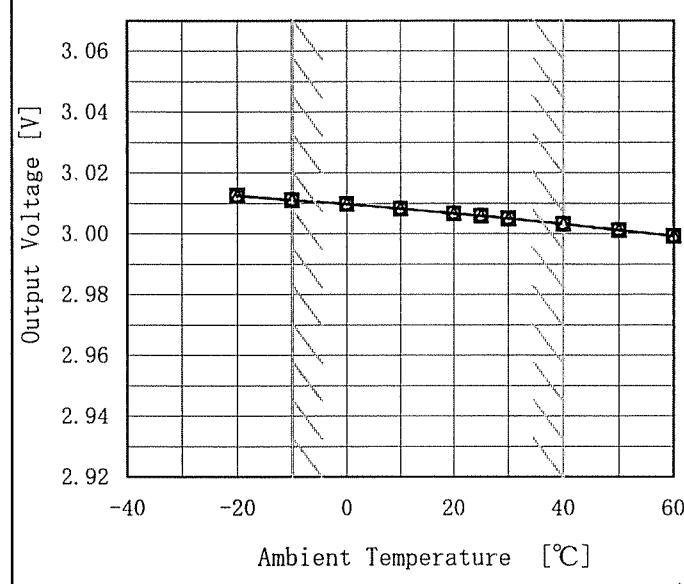
② 24.0 [A]



COSEL



COSEL

Model	LDA300W-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3V60A
1. Graph	
<p style="text-align: center;"> —△— Input Volt. 85V - -□--- Input Volt. 100V - -○--- Input Volt. 132V </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>	

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	3.013	3.013	3.013
-10	3.011	3.011	3.011
0	3.010	3.010	3.010
10	3.008	3.008	3.008
20	3.007	3.007	3.007
25	3.006	3.006	3.006
30	3.005	3.005	3.005
40	3.003	3.003	3.003
50	3.001	3.001	3.001
60	2.999	2.999	2.999
--	—	—	—

COSEL

Model	LDA300W-3																																							
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	Testing Circuitry Figure A																																						
Object	+3V60A																																							
1. Graph																																								
<p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>--- □ --- Load 50%</p> <p>— △ — Load 100%</p>																																								
Note: Slanted line shows the range of the rated ambient temperature.																																								
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2. Values																																								
<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>55</td></tr> <tr> <td>0</td><td>46</td><td>55</td></tr> <tr> <td>10</td><td>46</td><td>54</td></tr> <tr> <td>20</td><td>46</td><td>54</td></tr> <tr> <td>25</td><td>46</td><td>54</td></tr> <tr> <td>30</td><td>46</td><td>54</td></tr> <tr> <td>40</td><td>46</td><td>54</td></tr> <tr> <td>50</td><td>45</td><td>54</td></tr> <tr> <td>60</td><td>45</td><td>54</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	55	0	46	55	10	46	54	20	46	54	25	46	54	30	46	54	40	46	54	50	45	54	60	45	54	--	—	—
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25	46	54																																						
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40	46	54																																						
50	45	54																																						
60	45	54																																						
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COSEL

Model	LDA300W-3																																							
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object	+3V60A																																							
1. Graph																																								
<p>1. Graph</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 100V</p>																																								
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Testing Circuitry		Figure A																																						
2. Values																																								
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Ambient Temperature [°C]	Ripple Voltage [mV]																																							
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-20	30	40																																						
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Model	LDA300W-3	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+3V60A	

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 : 85 ~ 132V

Load Current : 0 ~ 60A

* Output Voltage Accuracy = ±(Maximum of Output Voltage - Minimum of Output Voltage) / 2

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

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 : 85 ~ 132V

負荷電流 : 0 ~ 60A

* 定電圧精度(変動値) = ±(出力電圧の最高値 - 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		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-10	85	0	3.046		
Minimum Voltage	40	100	60	3.003	±22	±0.7

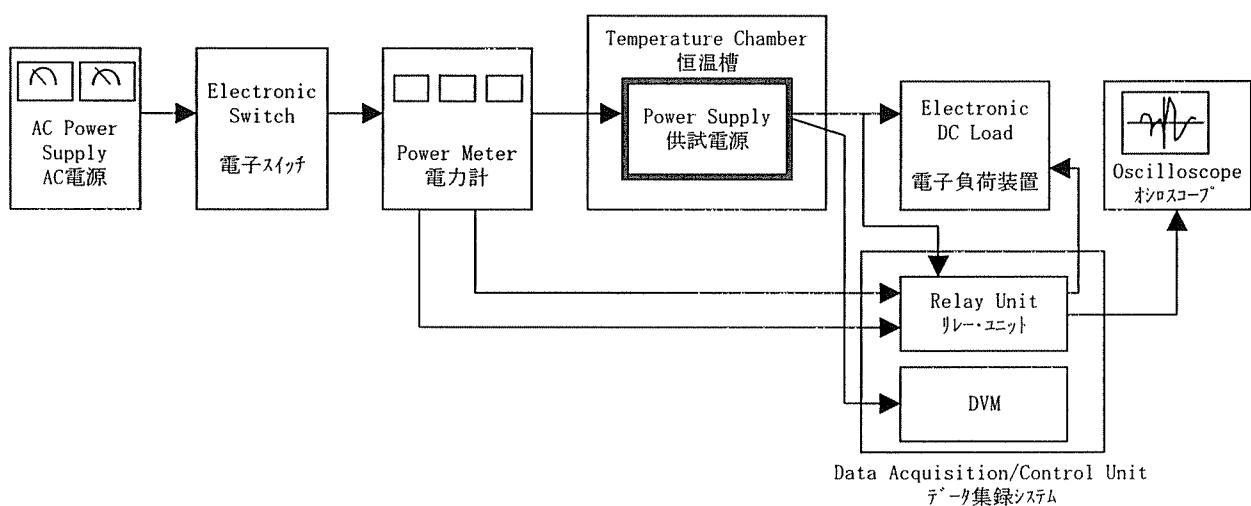


Figure A