



# TEST DATA OF LDA100W-3

(100V INPUT)

Regulated DC Power Supply  
Jan.5. 2005

Approved by : J. Uchida J.Uchida Design Manager

Prepared by : A. Kawai A.Kawai Design Engineer

**COSEL CO.,LTD.**

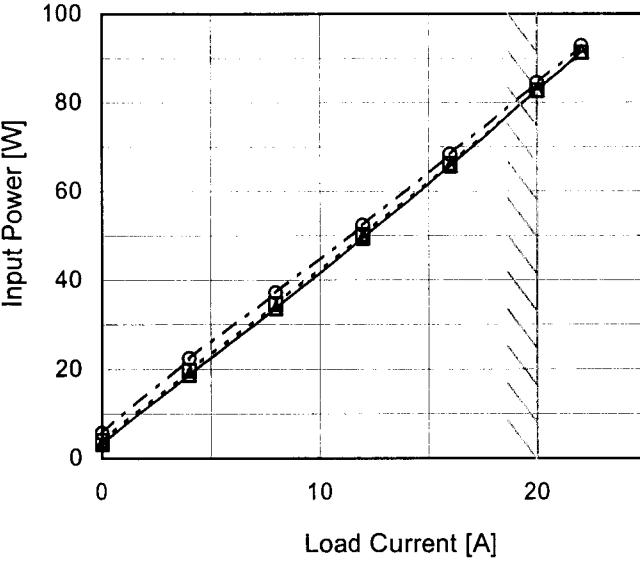
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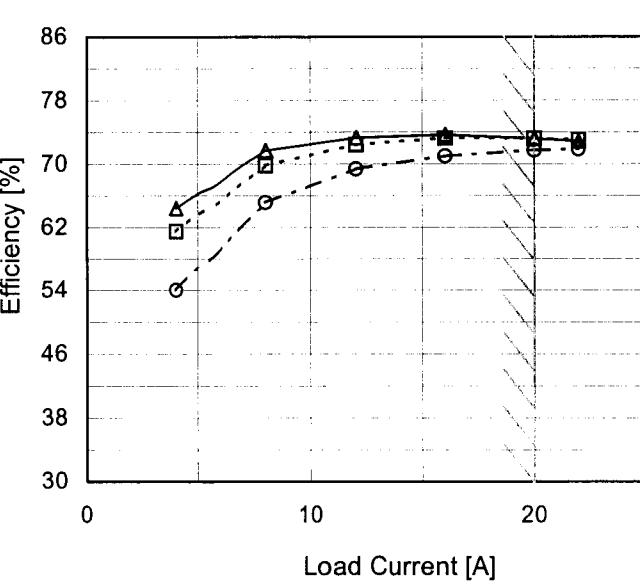
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Model LDA100W-3

Item Inrush Current

Object \_\_\_\_\_

Temperature 25°C  
Testing Circuitry Figure AInput  
Current  
[20A/div]Input  
Voltage  
[100V/div]

Time

[50ms/div]

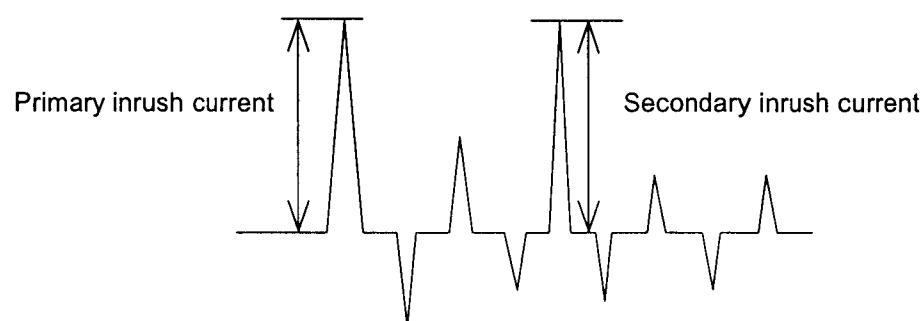
Input Voltage 100 V

Frequency 60 Hz

Load 100 %

Primary inrush current 24.6 A

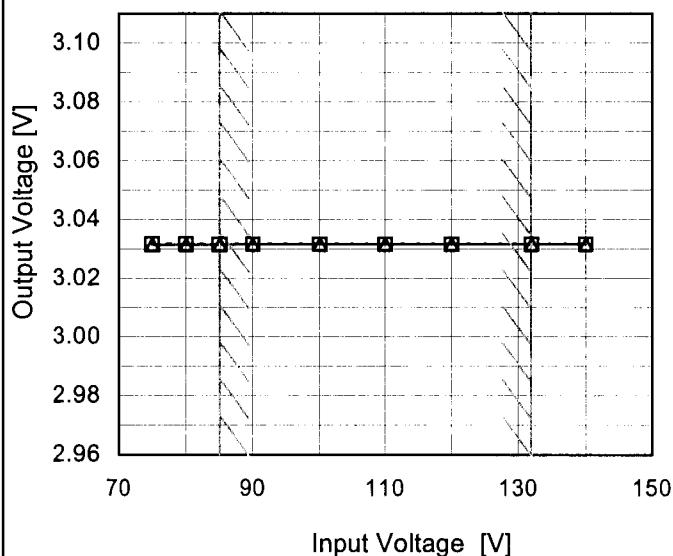
Secondary inrush current 4.6 A



Model	LDA100W-3
Item	Line Regulation
Object	+3V20A

## 1.Graph

--- □ --- Load 50%  
 —△— Load 100%



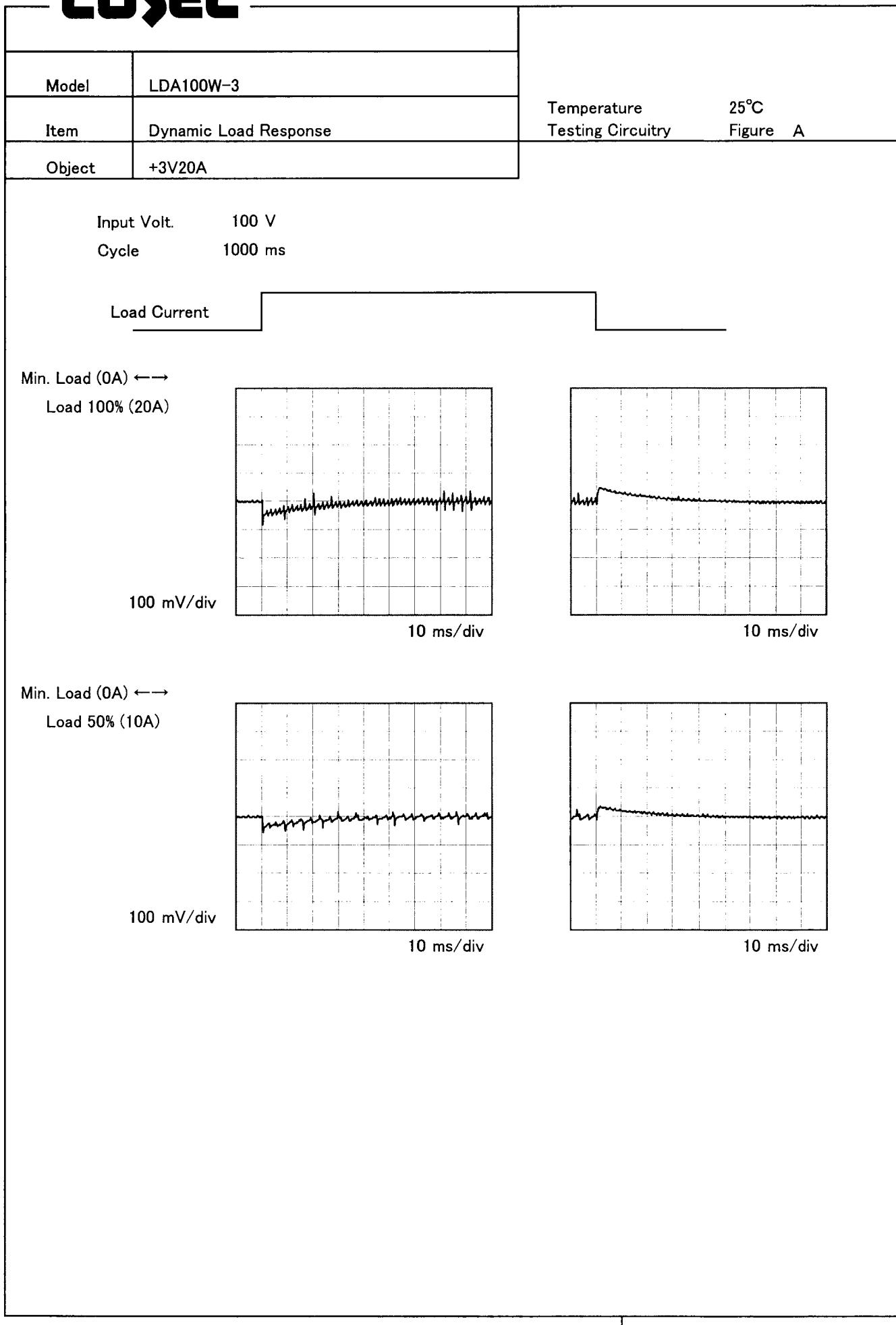
Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C  
 Testing Circuitry Figure A

## 2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	3.032	3.032
80	3.032	3.032
85	3.032	3.032
90	3.032	3.032
100	3.032	3.032
110	3.032	3.032
120	3.032	3.032
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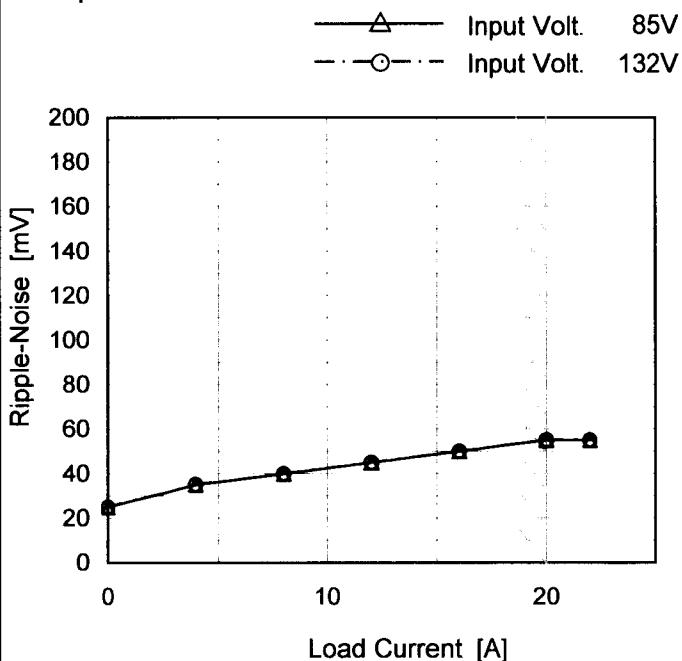
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<p>Measured by 20 MHz Oscilloscope.      Ripple Voltage is shown as p-p in the figure below.      Note: Slanted line shows the range of the rated load current.</p>																																								
<p>T1: Due to AC Input Line      T2: Due to Switching</p>																																								
<p>Fig. Complex Ripple Wave Form</p>																																								

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Model	LDA100W-3
Item	Ripple-Noise
Object	+3V20A

Temperature 25°C  
 Testing Circuitry Figure A

## 1. Graph



Measured by 20 MHz Oscilloscope.

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

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

## 2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0	25	25
4	35	35
8	40	40
12	45	45
16	50	50
20	55	55
22	55	55
--	-	-
--	-	-
--	-	-
--	-	-

T1: Due to AC Input Line  
 T2: Due to Switching

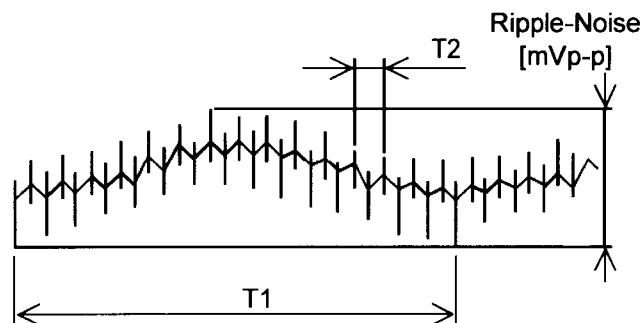


Fig. Complex Ripple Wave Form

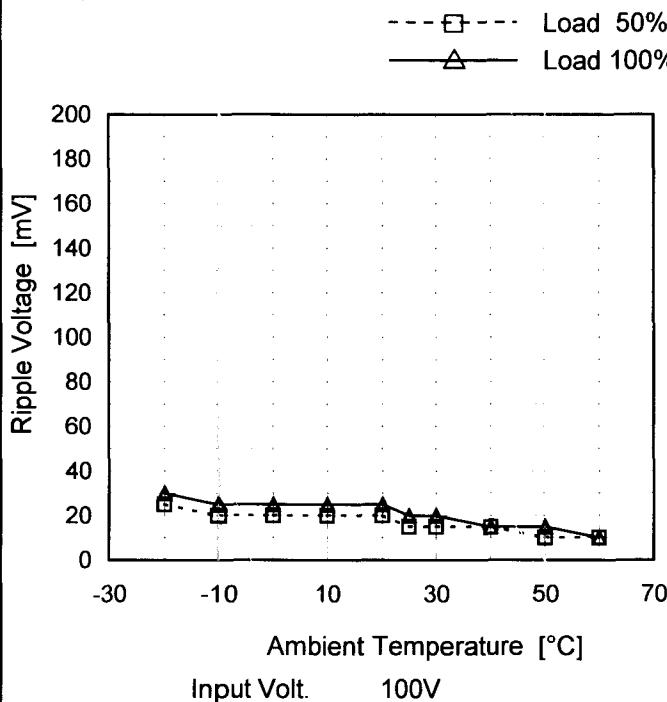
**COSEL**

Model LDA100W-3

Item Ripple Voltage (by Ambient Temp.)

Object +3V20A

## 1. Graph



Measured by 20 MHz Oscilloscope.

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

Testing Circuitry Figure A

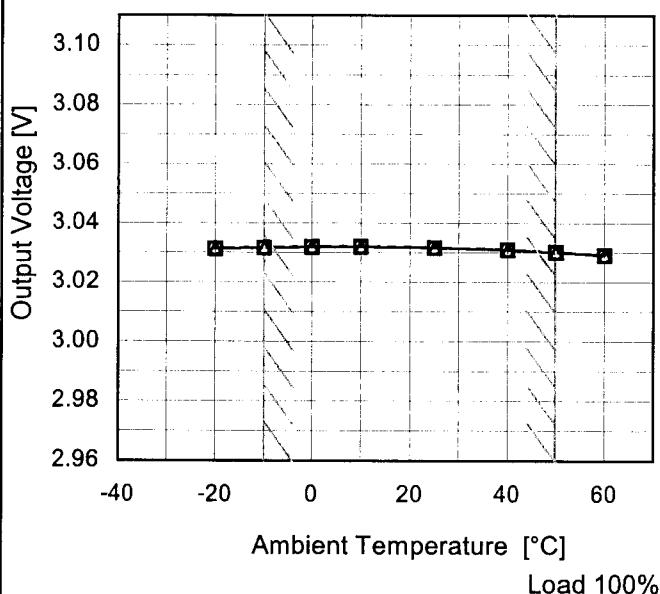
## 2. Values

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

Model	LDA100W-3
Item	Ambient Temperature Drift
Object	+3V20A

## 1. Graph

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



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

## 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	3.031	3.031	3.031
-10	3.032	3.032	3.032
0	3.032	3.032	3.032
10	3.032	3.032	3.032
25	3.032	3.032	3.032
40	3.031	3.031	3.031
50	3.030	3.030	3.030
60	3.029	3.029	3.029
--	-	-	-
--	-	-	-
--	-	-	-



Model	LDA100W-3	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+3V20A	

### 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 - 132V

Load Current : 0 - 20A

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

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

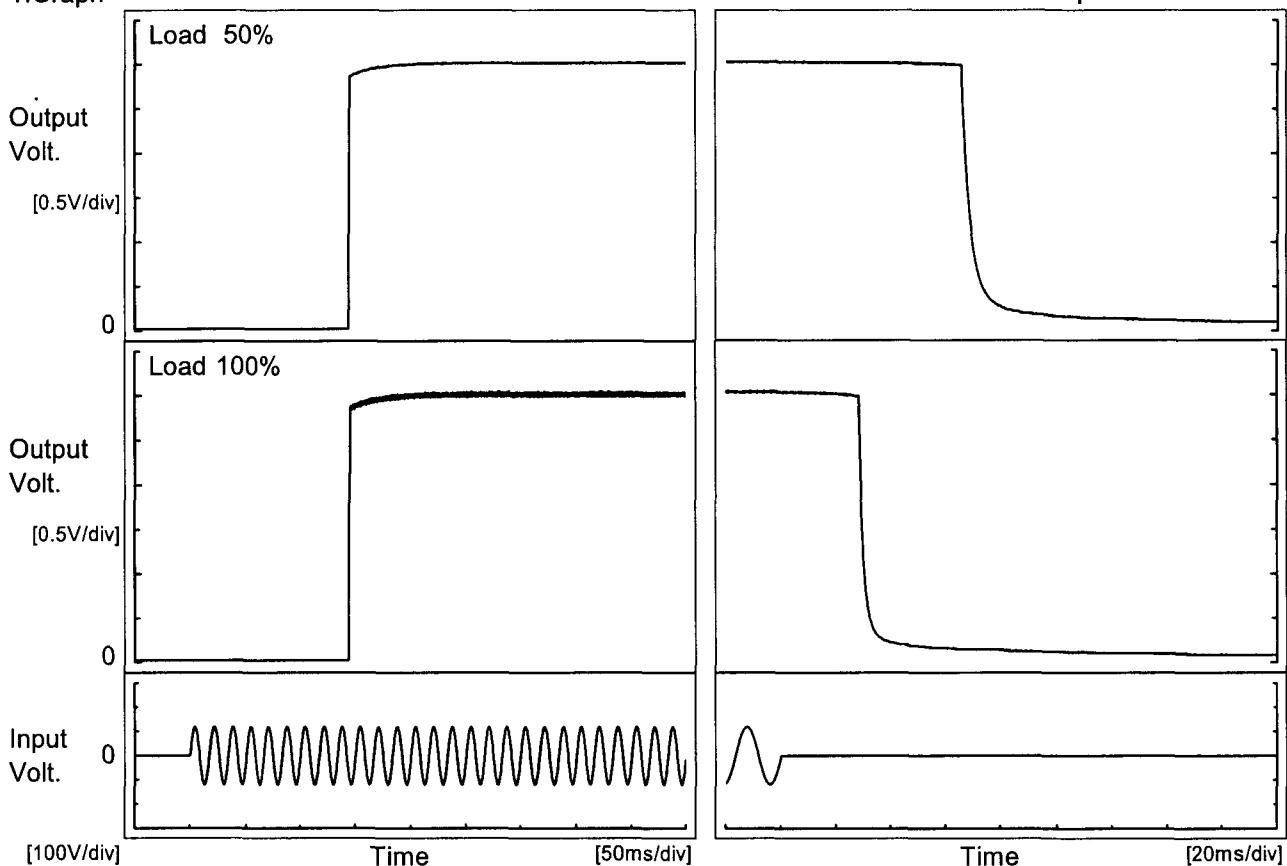
### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-10	100	0	3.032	$\pm 1$	$\pm 0.1$
Minimum Voltage	50	132	0	3.030		

**COSEL**

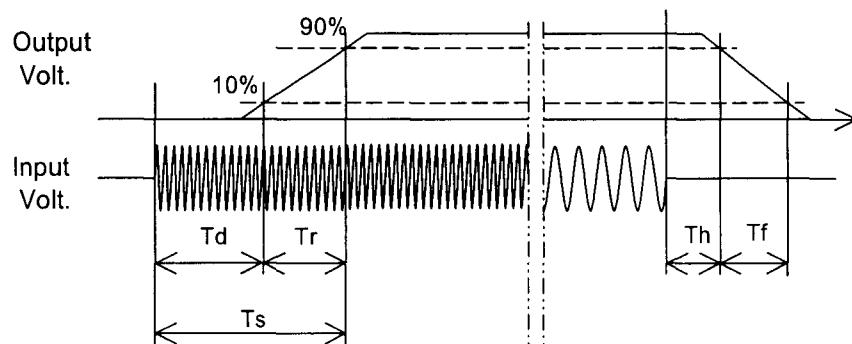
Model	LDA100W-3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3V20A		

## 1. Graph



## 2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		143.0	2.0	145.0	65.9	12.0	
100 %		143.5	2.0	145.5	28.4	6.3	



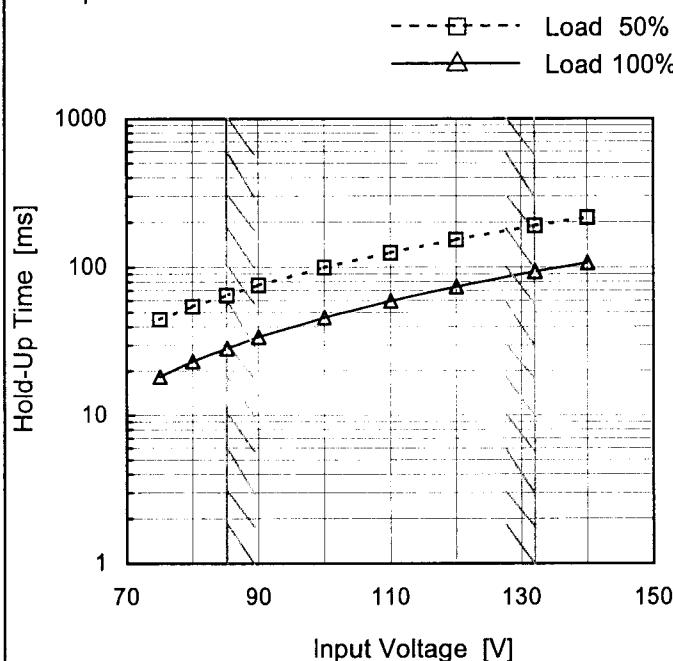
Model LDA100W-3

Item Hold-Up Time

Object +3V20A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



## 2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
75	45	18
80	55	23
85	65	29
90	76	34
100	99	46
110	125	60
120	153	74
132	190	94
140	215	107

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.

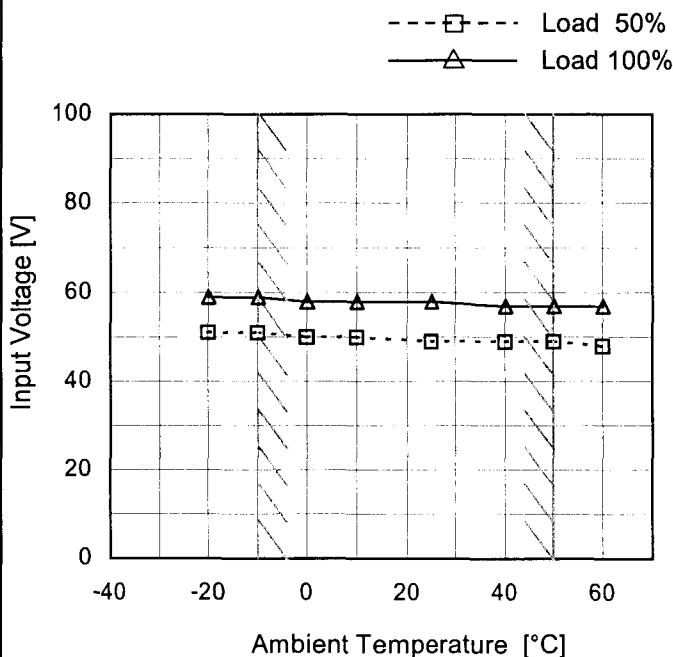
**COSEL**

Model	LDA100W-3																																																					
Item	Instantaneous Interruption Compensation	Temperature Testing Circuitry	25°C Figure A																																																			
Object	+3V20A																																																					
1. Graph																																																						
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<p>Note: Slanted line shows the range of the rated load current.</p>																																																						

**COSEL**

Model	LDA100W-3
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+3V20A

## 1.Graph



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

## Testing Circuitry Figure A

## 2.Values

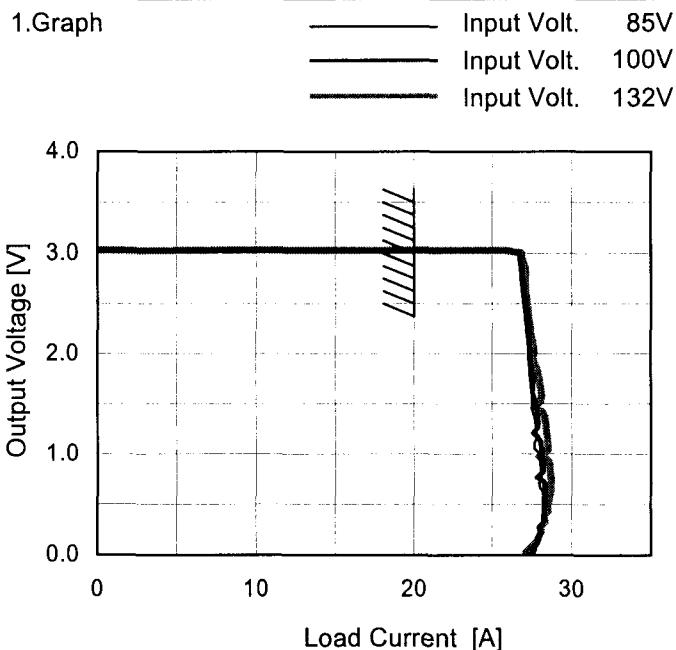
Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	51	59
-10	51	59
0	50	58
10	50	58
25	49	58
40	49	57
50	49	57
60	48	57
--	-	-
--	-	-
--	-	-

**COSEL**

Model LDA100W-3

Item Overcurrent Protection

Object +3V20A



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

Temperature 25°C  
Testing Circuitry Figure A

## 2.Values

Output Voltage [V]	Load Current [A]		
	85[V]	100[V]	132[V]
3.00	24.08	23.72	23.55
2.85	26.72	26.80	27.04
2.70	26.80	26.92	27.05
2.40	27.00	27.18	27.24
2.10	27.25	27.29	27.55
1.80	27.33	27.48	27.86
1.50	27.47	27.72	28.01
1.20	27.76	27.55	28.44
0.90	27.99	28.16	28.61
0.60	28.15	28.33	28.64
0.30	28.16	28.21	28.06
0.00	27.21	27.19	26.62

**COSEL**

Model	LDA100W-3	Testing Circuitry Figure A																																																					
Item	Otvoltage Protection																																																						
Object	+3V20A																																																						
1.Graph	<p>—△— Input Volt. 85V      - - -□- - Input Volt. 100V      - - ○- - Input Volt. 132V</p> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p>	2.Values																																																					
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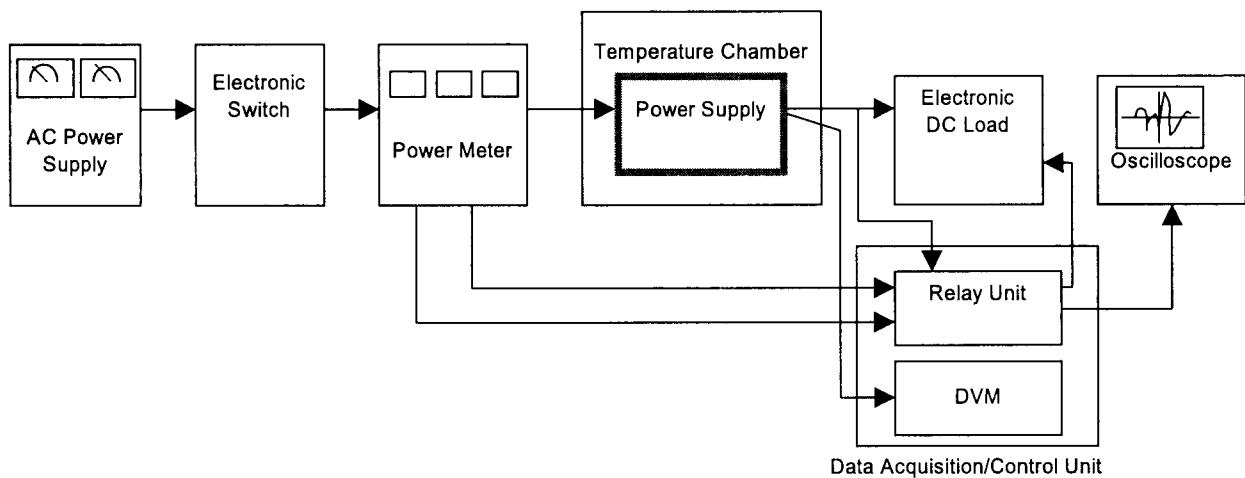


Figure A

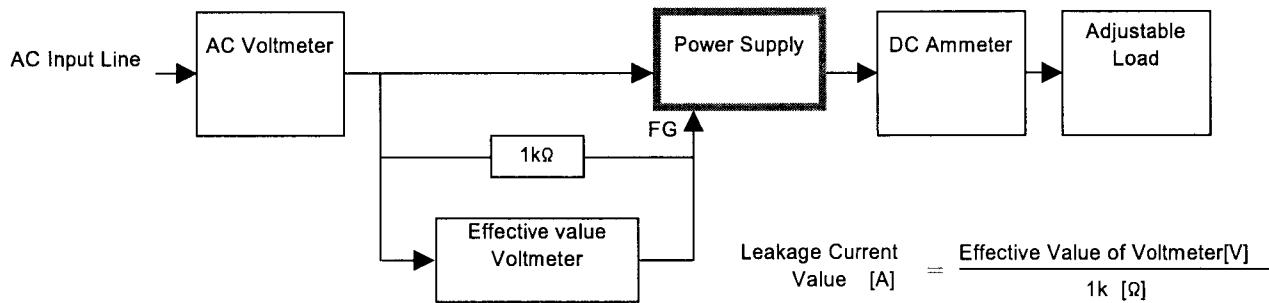


Figure B ( DEN-AN )

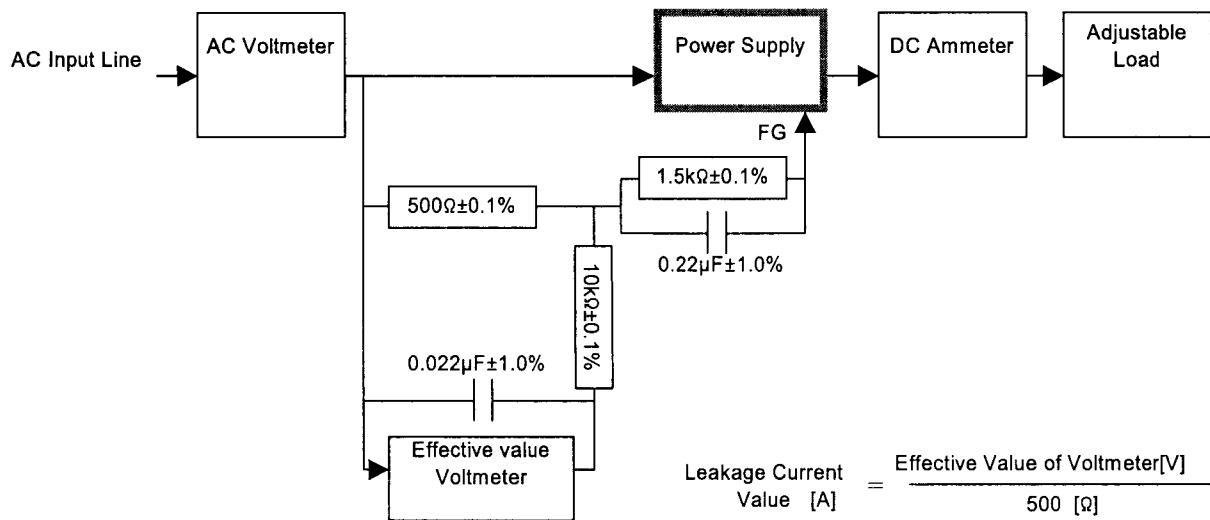


Figure B ( IEC60950 )