



# TEST DATA OF LDA150W-30

(100V INPUT)

Regulated DC Power Supply  
Mar 18, 2005

Approved by : S. Shiho Design Manager

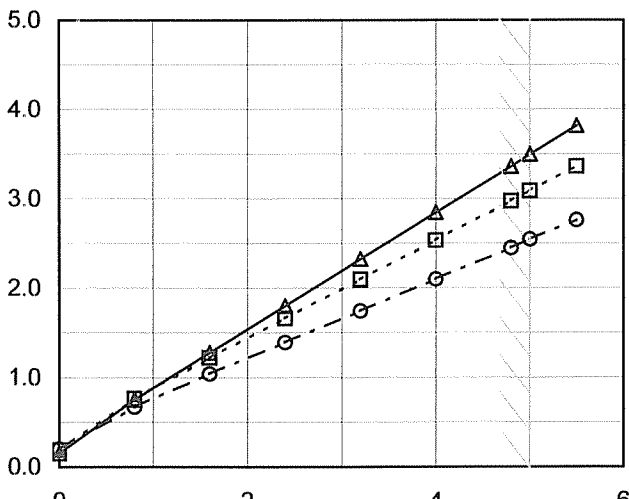
Prepared by : M. Fujii Design Engineer

**COSEL CO.,LTD.**

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Model		LDA150W-30		Temperature Testing Circuitry	25°C Figure A
Item		Input Current (by Load Current)			
Object		_____			
1. Graph					
		—△— Input Volt. 85V		2. Values	
		---□--- Input Volt. 100V			
		---○--- Input Volt. 132V			
Input Current [A]					
Load Current [A]					
Note: Slanted line shows the range of the rated load current.					

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	0.155	0.190	0.200
0.8	0.755	0.764	0.672
1.6	1.279	1.222	1.042
2.4	1.803	1.663	1.394
3.2	2.328	2.097	1.746
4.0	2.847	2.535	2.100
4.8	3.363	2.974	2.449
5.0	3.500	3.088	2.547
5.5	3.820	3.361	2.761
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Model		LDA150W-30																																																				
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<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div> <p>Input Power [W]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</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>4.1</td><td>5.0</td><td>6.9</td></tr><tr><td>0.8</td><td>32.4</td><td>33.1</td><td>36.0</td></tr><tr><td>1.6</td><td>59.0</td><td>59.4</td><td>62.2</td></tr><tr><td>2.4</td><td>86.4</td><td>86.3</td><td>88.6</td></tr><tr><td>3.2</td><td>114.0</td><td>114.0</td><td>115.8</td></tr><tr><td>4.0</td><td>142.2</td><td>141.6</td><td>142.8</td></tr><tr><td>4.8</td><td>170.9</td><td>169.8</td><td>170.4</td></tr><tr><td>5.0</td><td>177.9</td><td>176.9</td><td>177.1</td></tr><tr><td>5.5</td><td>197.0</td><td>194.7</td><td>194.4</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]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	4.1	5.0	6.9	0.8	32.4	33.1	36.0	1.6	59.0	59.4	62.2	2.4	86.4	86.3	88.6	3.2	114.0	114.0	115.8	4.0	142.2	141.6	142.8	4.8	170.9	169.8	170.4	5.0	177.9	176.9	177.1	5.5	197.0	194.7	194.4	--	-	-	-	--	-	-	-
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# COSEL

Model	LDA150W-30																																																																
Item	Efficiency (by Input Voltage)	Temperature	25°C																																																														
		Testing Circuitry	Figure A																																																														
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Model		LDA150W-30		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1. Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>- - □ - -</div>Input Volt. 100V</div> <div><div>- · - ○ - ·</div>Input Volt. 132V</div> <div>Efficiency [%]</div> <div>Load Current [A]</div>		2. Values																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</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>-</td><td>-</td><td>-</td></tr><tr><td>0.8</td><td>75.7</td><td>74.0</td><td>68.1</td></tr><tr><td>1.6</td><td>82.6</td><td>82.0</td><td>78.3</td></tr><tr><td>2.4</td><td>84.4</td><td>84.5</td><td>82.3</td></tr><tr><td>3.2</td><td>85.2</td><td>85.2</td><td>83.9</td></tr><tr><td>4.0</td><td>85.3</td><td>85.7</td><td>85.0</td></tr><tr><td>4.8</td><td>85.2</td><td>85.7</td><td>85.4</td></tr><tr><td>5.0</td><td>85.2</td><td>85.7</td><td>85.6</td></tr><tr><td>5.5</td><td>84.6</td><td>85.6</td><td>85.8</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]	Efficiency [%]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	-	-	-	0.8	75.7	74.0	68.1	1.6	82.6	82.0	78.3	2.4	84.4	84.5	82.3	3.2	85.2	85.2	83.9	4.0	85.3	85.7	85.0	4.8	85.2	85.7	85.4	5.0	85.2	85.7	85.6	5.5	84.6	85.6	85.8	--	-	-	-	--	-	-	-
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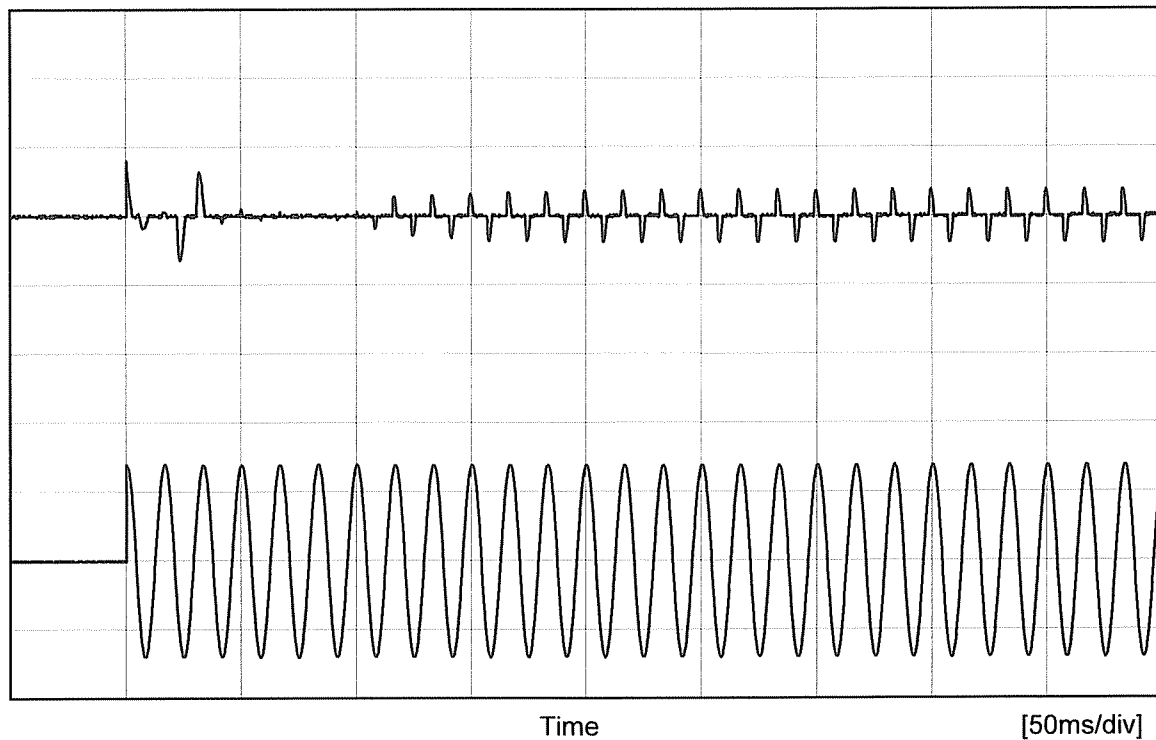
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Model		LDA150W-30	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	

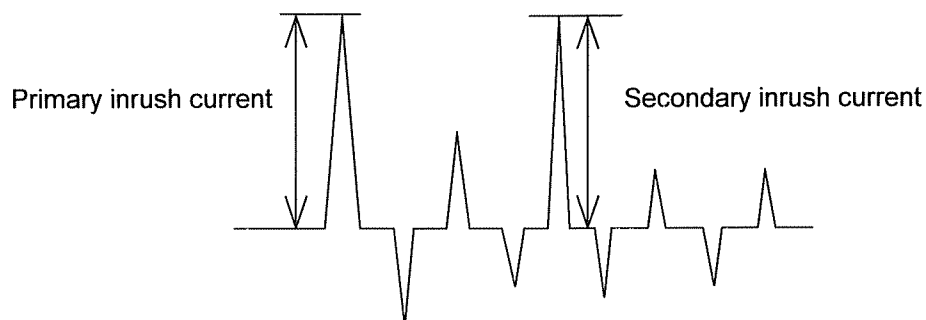
Input  
Current  
[20A/div]

Input  
Voltage  
[100V/div]



Input Voltage 100 V  
Frequency 60 Hz  
Load 100 %

Primary inrush current 15.9 A  
Secondary inrush current 13.1A





Model	LDA150W-30																																
Item	Line Regulation	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+30V5A																																
1.Graph		2.Values																															
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Model	LDA150W-30	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response 動的負荷変動		
Object	+30V5A		

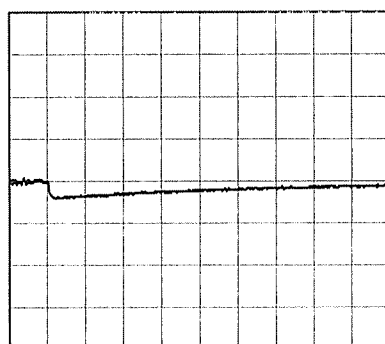
Input Volt. 100 V  
Cycle 1000 ms



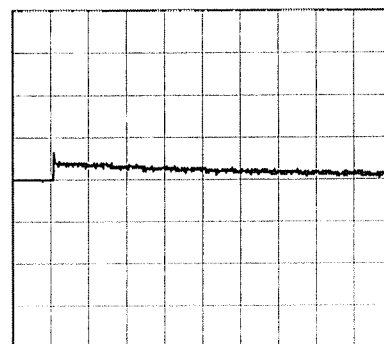
Min. Load (0A) ←→

Load 100% (5A)

200 mV/div



10 ms/div

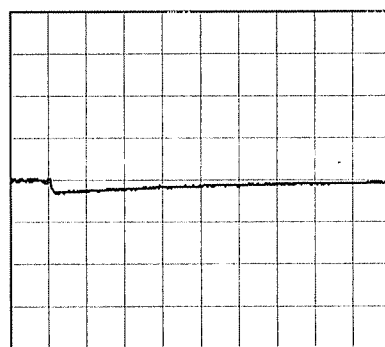


10 ms/div

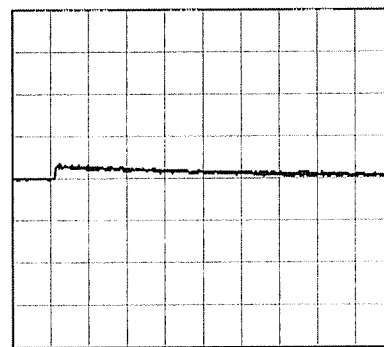
Min. Load (0A) ←→

Load 50% (2.5A)

200 mV/div



10 ms/div



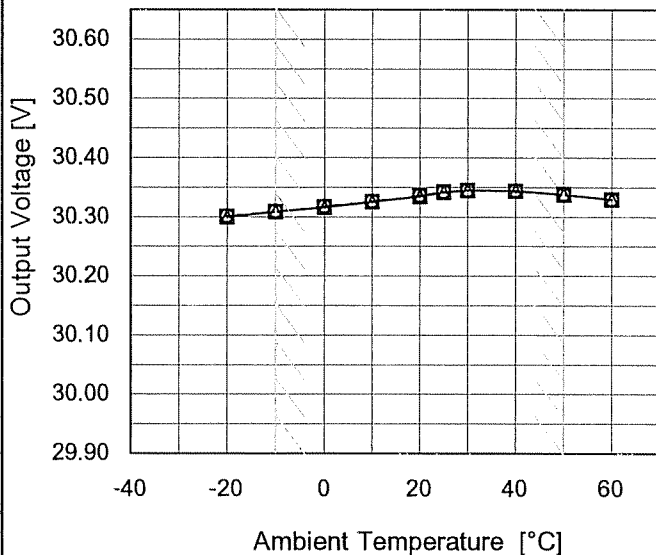
10 ms/div

Model	LDA150W-30																																								
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Fig. Complex Ripple Wave Form																																									

Model	LDA150W-30																																																																												
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<div><div><div>—△— Input Volt. 85V</div><div>-·-○-·- Input Volt. 132V</div></div><table><thead><tr><th>Load Current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr></thead><tbody><tr><td>0.0</td><td>25</td><td>35</td></tr><tr><td>0.8</td><td>35</td><td>40</td></tr><tr><td>1.6</td><td>40</td><td>45</td></tr><tr><td>2.4</td><td>40</td><td>50</td></tr><tr><td>3.2</td><td>45</td><td>50</td></tr><tr><td>4.0</td><td>50</td><td>55</td></tr><tr><td>4.8</td><td>60</td><td>55</td></tr><tr><td>5.0</td><td>60</td><td>60</td></tr><tr><td>5.5</td><td>65</td><td>60</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table></div> <div><p>Measured by 20 MHz Oscilloscope.</p><p>Ripple-Noise is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div>		Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	25	35	0.8	35	40	1.6	40	45	2.4	40	50	3.2	45	50	4.0	50	55	4.8	60	55	5.0	60	60	5.5	65	60	--	-	-	--	-	-	<table><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr></thead><tbody><tr><td>0.0</td><td>25</td><td>35</td></tr><tr><td>0.8</td><td>35</td><td>40</td></tr><tr><td>1.6</td><td>40</td><td>45</td></tr><tr><td>2.4</td><td>40</td><td>50</td></tr><tr><td>3.2</td><td>45</td><td>50</td></tr><tr><td>4.0</td><td>50</td><td>55</td></tr><tr><td>4.8</td><td>60</td><td>55</td></tr><tr><td>5.0</td><td>60</td><td>60</td></tr><tr><td>5.5</td><td>65</td><td>60</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	25	35	0.8	35	40	1.6	40	45	2.4	40	50	3.2	45	50	4.0	50	55	4.8	60	55	5.0	60	60	5.5	65	60	--	-	-	--	-	-
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Model		LDA150W-30	Testing Circuitry    Figure A																																					
Item		Ripple Voltage (by Ambient Temp.)																																						
Object		+30V5A																																						
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Model	LDA150W-30																																																						
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Ambient Temperature [°C]	Output Voltage [V]																																																						
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50	30.338	30.338	30.338																																																				
60	30.330	30.330	30.330																																																				
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Model		LDA150W-30	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+30V5A	

### 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 - 5A

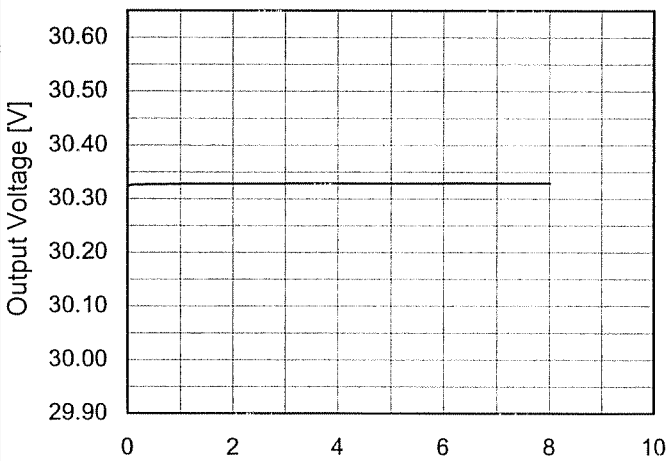
\* Output Voltage Accuracy =  $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	132	0	30.346	±18	±0.1
Minimum Voltage	-10	85	5	30.311		

# COSEL

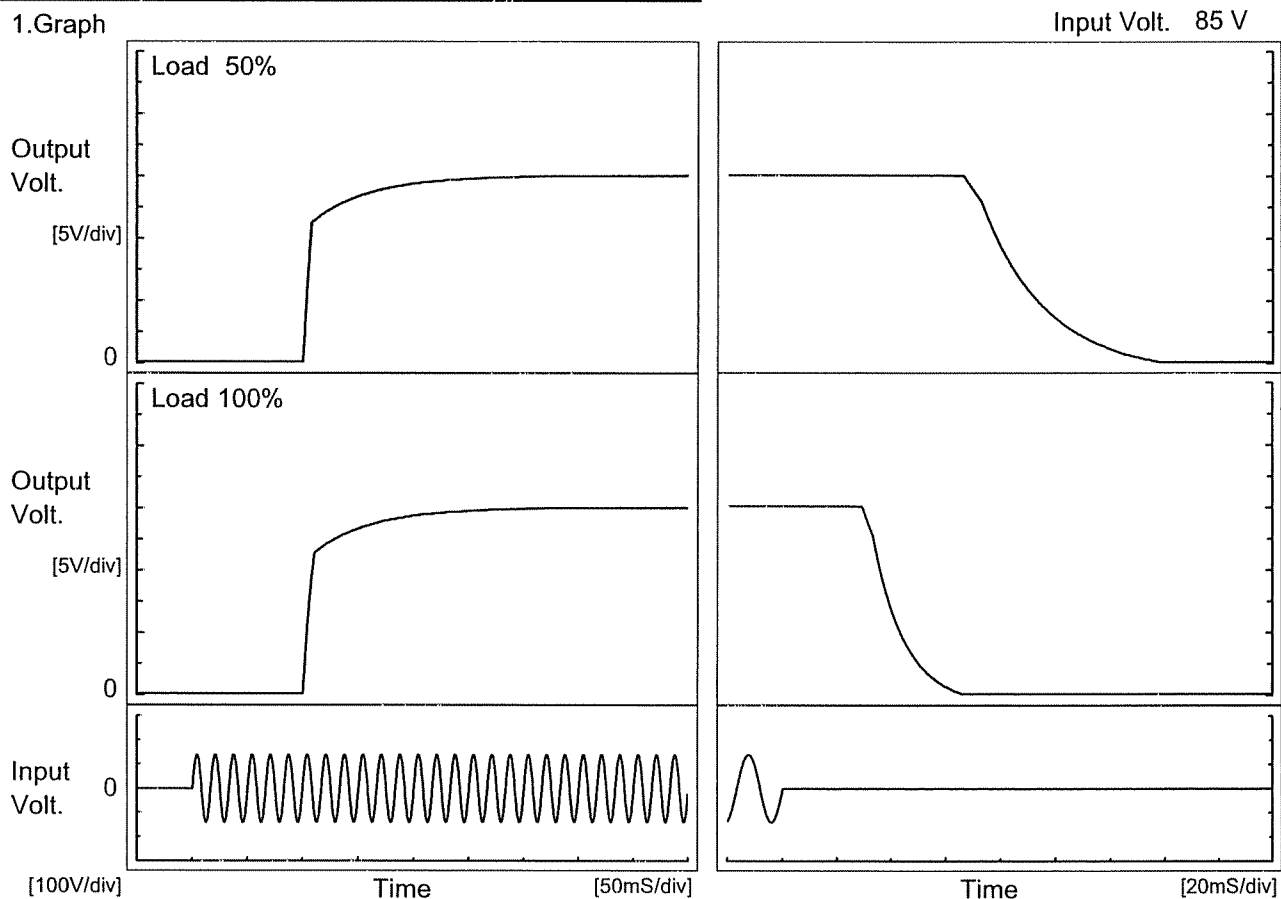
Model	LDA150W-30																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+30V5A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>30.324</td></tr><tr><td>0.5</td><td>30.327</td></tr><tr><td>1.0</td><td>30.328</td></tr><tr><td>2.0</td><td>30.328</td></tr><tr><td>3.0</td><td>30.329</td></tr><tr><td>4.0</td><td>30.329</td></tr><tr><td>5.0</td><td>30.329</td></tr><tr><td>6.0</td><td>30.329</td></tr><tr><td>7.0</td><td>30.329</td></tr><tr><td>8.0</td><td>30.329</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	30.324	0.5	30.327	1.0	30.328	2.0	30.328	3.0	30.329	4.0	30.329	5.0	30.329	6.0	30.329	7.0	30.329	8.0	30.329
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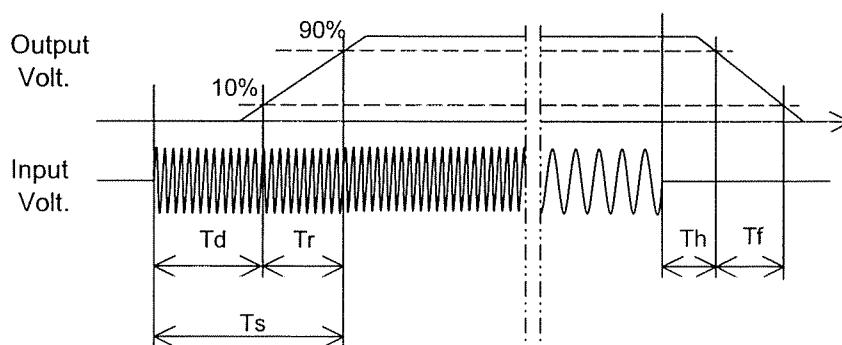
Model	LDA150W-30	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+30V5A		

## 1. Graph



## 2. Values

		[mS]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		101.5	55.5	157.0	70.7	44.3
100 %		101.5	56.3	157.8	31.8	22.6



Model		LDA150W-30	
Item		Hold-Up Time	
Object		+30V5A	
1.Graph		2.Values	

1000

100

10

1

70

90

110

130

150

Hold-Up Time [ms]

Input Voltage [V]

---

□

---

Load 50%

---

△

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Load 100%

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.

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
75	26	9
80	34	12
85	41	16
90	49	20
100	67	29
110	86	39
120	107	50
132	134	64
140	154	74

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BC-0998

Model	LDA150W-30	Temperature 25°C Testing Circuitry Figure A																																																				
Item	Instantaneous Interruption Compensation																																																					
Object	+30V5A																																																					
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>85V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>-○-</div><div>Input Volt.</div><div>132V</div></div></div> <div>Note: Slanted line shows the range of the rated load current.</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>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.8</td><td>124</td><td>203</td><td>385</td></tr><tr><td>1.6</td><td>59</td><td>103</td><td>210</td></tr><tr><td>2.4</td><td>34</td><td>66</td><td>140</td></tr><tr><td>3.2</td><td>26</td><td>42</td><td>104</td></tr><tr><td>4.0</td><td>18</td><td>33</td><td>84</td></tr><tr><td>4.8</td><td>15</td><td>26</td><td>70</td></tr><tr><td>5.0</td><td>14</td><td>24</td><td>63</td></tr><tr><td>5.5</td><td>11</td><td>17</td><td>54</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]	0.0	-	-	-	0.8	124	203	385	1.6	59	103	210	2.4	34	66	140	3.2	26	42	104	4.0	18	33	84	4.8	15	26	70	5.0	14	24	63	5.5	11	17	54	--	-	-	-	--	-	-	-
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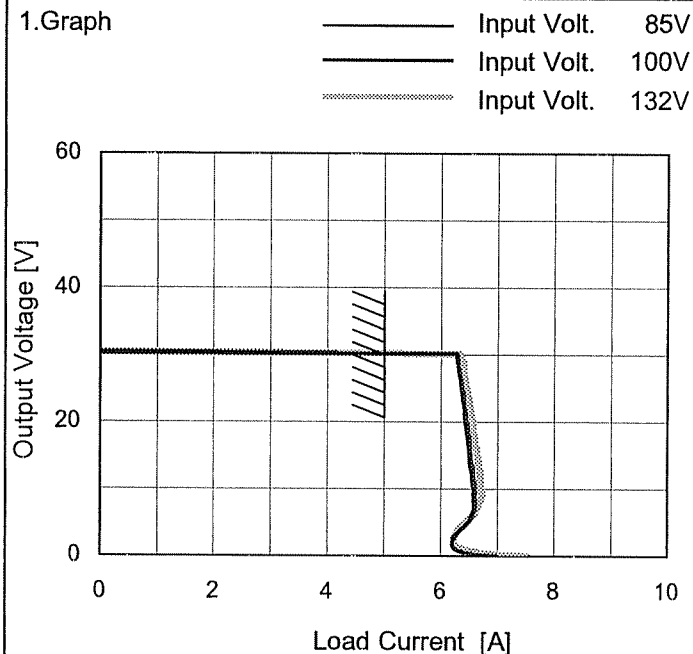
BC-0998

Model		LDA150W-30
Item		Minimum Input Voltage for Regulated Output Voltage
Object		+30V5A
1.Graph		
<div><div><div><div><div></div><div></div><div></div></div><div></div><div></div></div><div>Load 50%</div></div><div><div><div><div></div><div></div><div></div></div><div></div><div></div></div><div>Load 100%</div></div></div> <div><div><div><div><div></div><div></div><div></div></div><div></div><div></div></div><div></div><div></div></div><div></div><div></div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <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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<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>30.0</td><td>6.29</td><td>6.29</td><td>6.35</td></tr><tr><td>28.5</td><td>6.30</td><td>6.31</td><td>6.41</td></tr><tr><td>27.0</td><td>6.32</td><td>6.33</td><td>6.41</td></tr><tr><td>24.0</td><td>6.36</td><td>6.41</td><td>6.47</td></tr><tr><td>21.0</td><td>6.40</td><td>6.44</td><td>6.54</td></tr><tr><td>18.0</td><td>6.45</td><td>6.49</td><td>6.58</td></tr><tr><td>15.0</td><td>6.48</td><td>6.52</td><td>6.64</td></tr><tr><td>12.0</td><td>6.53</td><td>6.58</td><td>6.70</td></tr><tr><td>9.0</td><td>6.56</td><td>6.60</td><td>6.72</td></tr><tr><td>6.0</td><td>6.53</td><td>6.55</td><td>6.57</td></tr><tr><td>3.0</td><td>6.27</td><td>6.24</td><td>6.24</td></tr><tr><td>0.0</td><td>6.84</td><td>6.99</td><td>7.52</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	30.0	6.29	6.29	6.35	28.5	6.30	6.31	6.41	27.0	6.32	6.33	6.41	24.0	6.36	6.41	6.47	21.0	6.40	6.44	6.54	18.0	6.45	6.49	6.58	15.0	6.48	6.52	6.64	12.0	6.53	6.58	6.70	9.0	6.56	6.60	6.72	6.0	6.53	6.55	6.57	3.0	6.27	6.24	6.24	0.0	6.84	6.99	7.52
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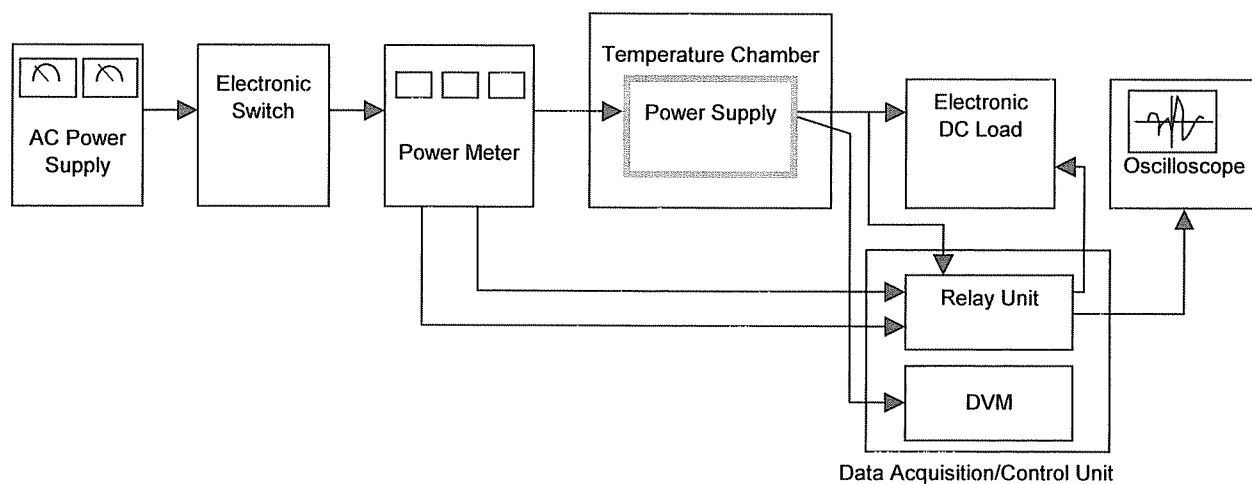


Figure A

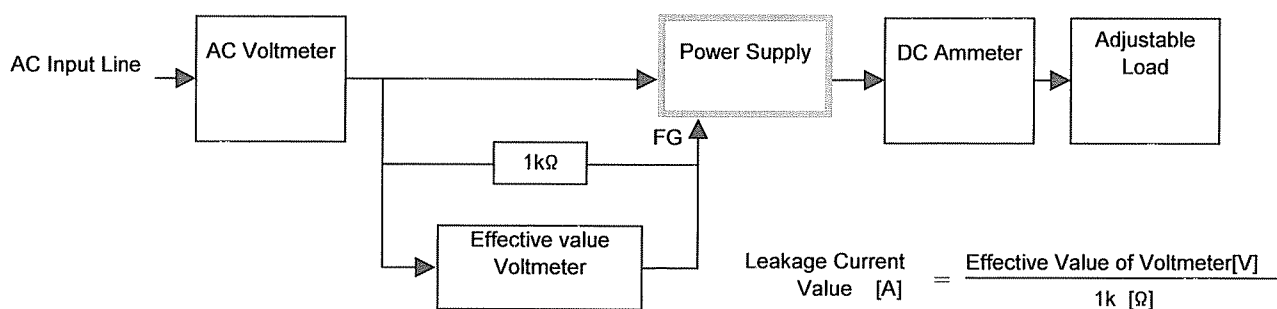


Figure B ( DEN-AN )

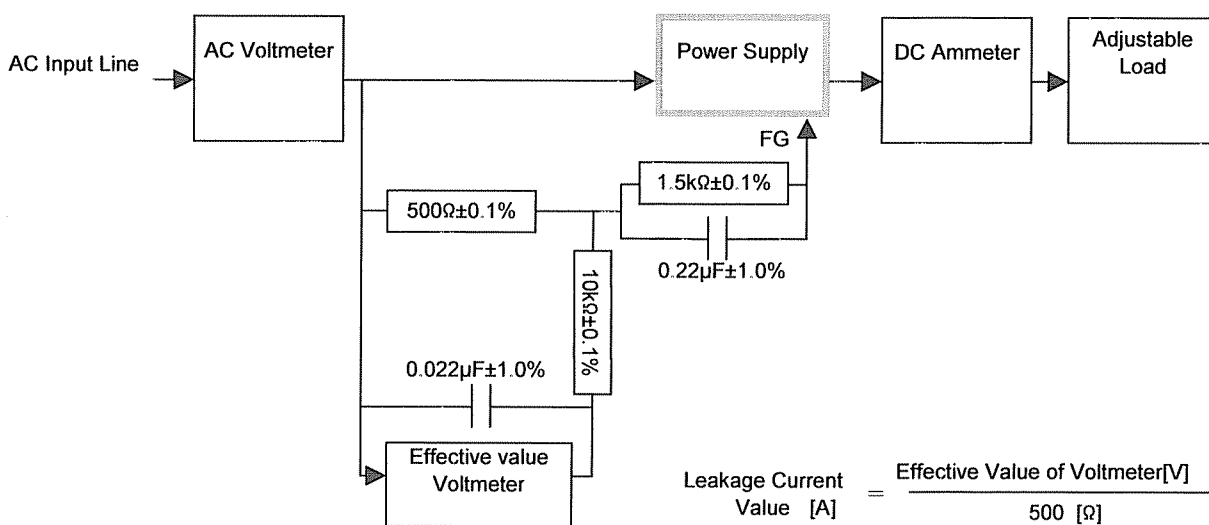


Figure B ( IEC60950 )