



TEST DATA OF LDA150W-30

(200V INPUT)

Regulated DC Power Supply
Mar 18, 2005

Approved by : *S. Shiho*
S. Shiho Design Manager

Prepared by : *M. Fujii*
M. Fujii Design Engineer

COSEL CO.,LTD.



Model		LDA150W-30		Temperature 25°C Testing Circuitry Figure A																																																			
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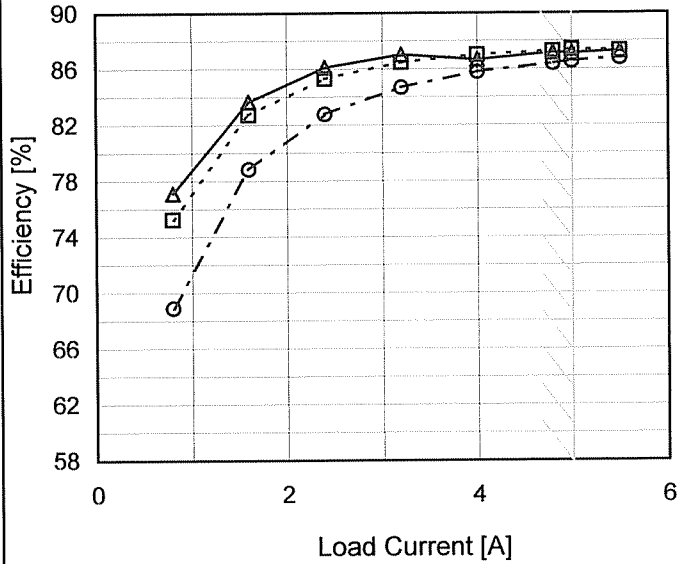


Model	LDA150W-30
Item	Efficiency (by Load Current)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph

- △— Input Volt. 170V
- - - □ - - - Input Volt. 200V
- · - ○ - · - - Input Volt. 264V



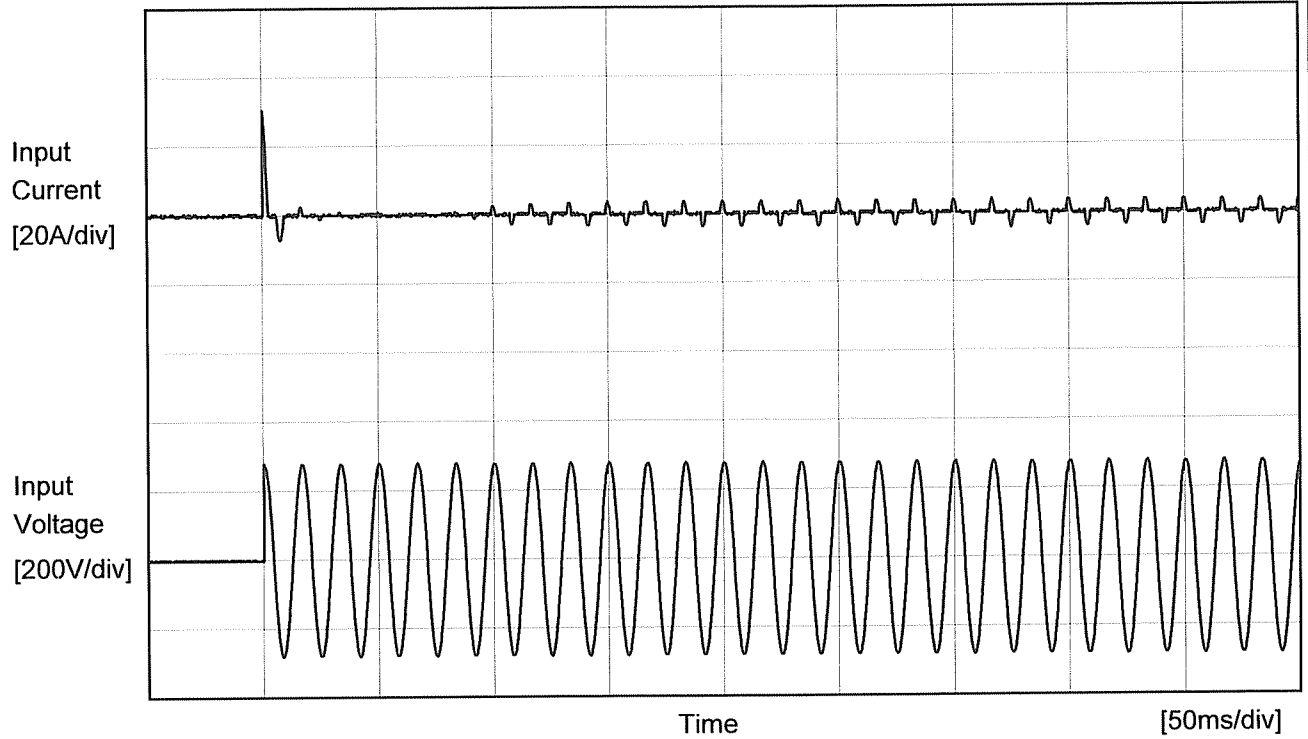
2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	-	-	-
0.8	77.1	75.3	68.9
1.6	83.7	82.7	78.8
2.4	86.1	85.3	82.8
3.2	87.0	86.5	84.7
4.0	86.7	87.0	85.8
4.8	87.2	87.3	86.4
5.0	87.1	87.4	86.5
5.5	87.3	87.3	86.8
--	-	-	-
--	-	-	-

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

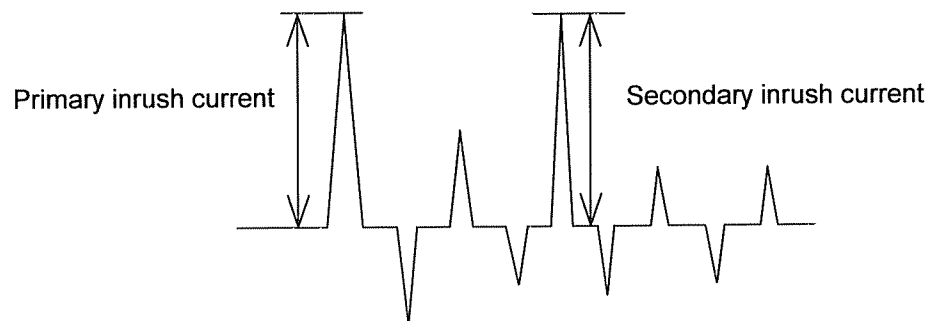


Model		LDA150W-30	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %

Primary inrush current 30.4 A
 Secondary inrush current 8.9A





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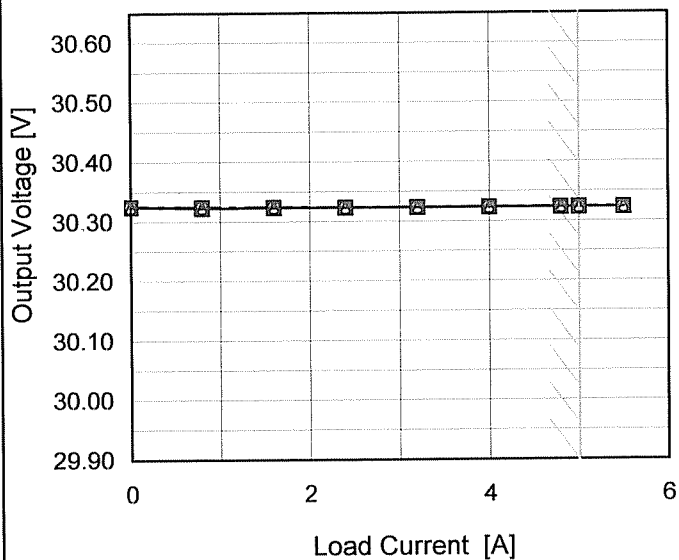


Model	LDA150W-30
Item	Load Regulation
Object	+30V5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
 ---□--- Input Volt. 200V
 -·-○-·- Input Volt. 264V



2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	30.325	30.325	30.325
0.8	30.323	30.324	30.324
1.6	30.324	30.324	30.324
2.4	30.324	30.324	30.324
3.2	30.323	30.324	30.324
4.0	30.324	30.324	30.324
4.8	30.324	30.324	30.323
5.0	30.323	30.324	30.323
5.5	30.324	30.324	30.323
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Note: Slanted line shows the range of the rated load current.

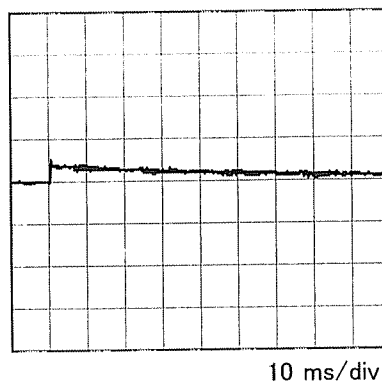
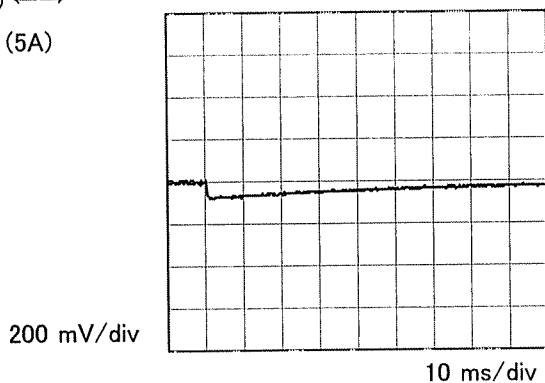


Model	LDA150W-30	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	+30V5A		

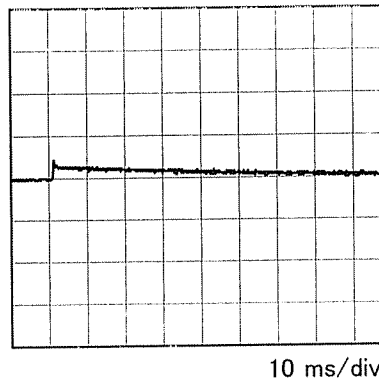
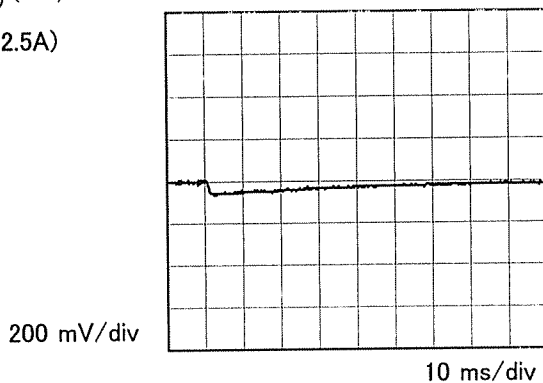
Input Volt. 200 V
Cycle 1000 ms



Min. Load (0A) ←→
Load 100% (5A)



Min. Load (0A) ←→
Load 50% (2.5A)



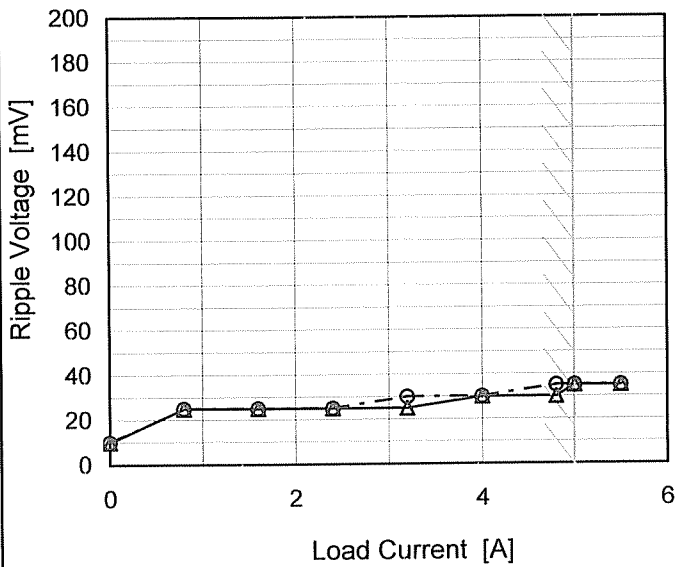


Model	LDA150W-30
Item	Ripple Voltage (by Load Current)
Object	+30V5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
- - ○ - - Input Volt. 264V



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	10	10
0.8	25	25
1.6	25	25
2.4	25	25
3.2	25	30
4.0	30	30
4.8	30	35
5.0	35	35
5.5	35	35
--	-	-
--	-	-

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.

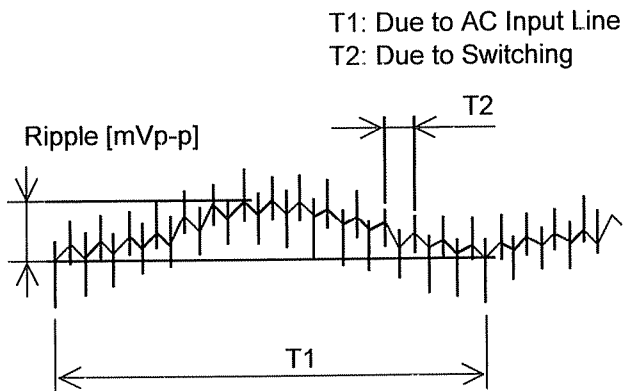


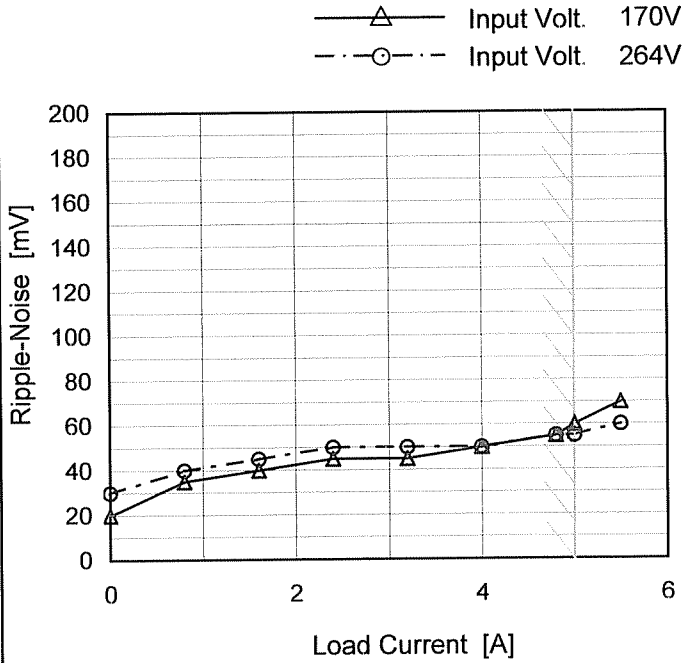
Fig. Complex Ripple Wave Form



Model	LDA150W-30
Item	Ripple-Noise
Object	+30V5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	20	30
0.8	35	40
1.6	40	45
2.4	45	50
3.2	45	50
4.0	50	50
4.8	55	55
5.0	60	55
5.5	70	60
--	-	-
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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.

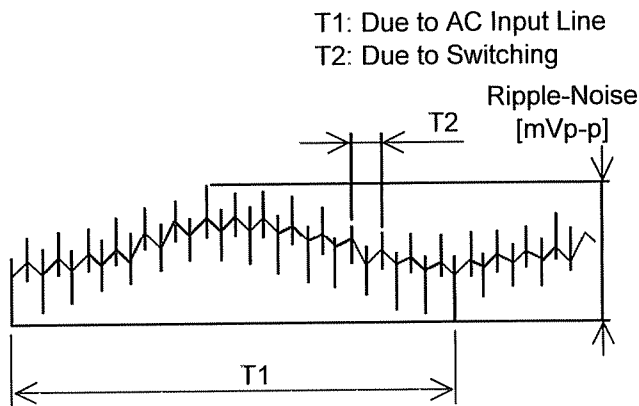


Fig. Complex Ripple Wave Form



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Model	LDA150W-30																																							
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure A																																						
Object	+30V5A																																							
<p>1.Graph</p> <div style="text-align: right;"> <p>--- □ --- Load 50%</p> <p>— △ — Load 100%</p> </div> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 200V</p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>45</td><td>55</td></tr> <tr><td>-10</td><td>40</td><td>55</td></tr> <tr><td>0</td><td>30</td><td>40</td></tr> <tr><td>10</td><td>25</td><td>35</td></tr> <tr><td>20</td><td>25</td><td>35</td></tr> <tr><td>25</td><td>25</td><td>35</td></tr> <tr><td>30</td><td>25</td><td>35</td></tr> <tr><td>40</td><td>25</td><td>25</td></tr> <tr><td>50</td><td>25</td><td>25</td></tr> <tr><td>60</td><td>20</td><td>25</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	45	55	-10	40	55	0	30	40	10	25	35	20	25	35	25	25	35	30	25	35	40	25	25	50	25	25	60	20	25	--	-	-
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<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																																						



COSEL		
Model	LDA150W-30	
Item	Output Voltage Accuracy	Testing Circuitry Figure A
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 : 170 - 264V

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	264	0	30.347	±18	±0.1
Minimum Voltage	-10	170	5	30.312		

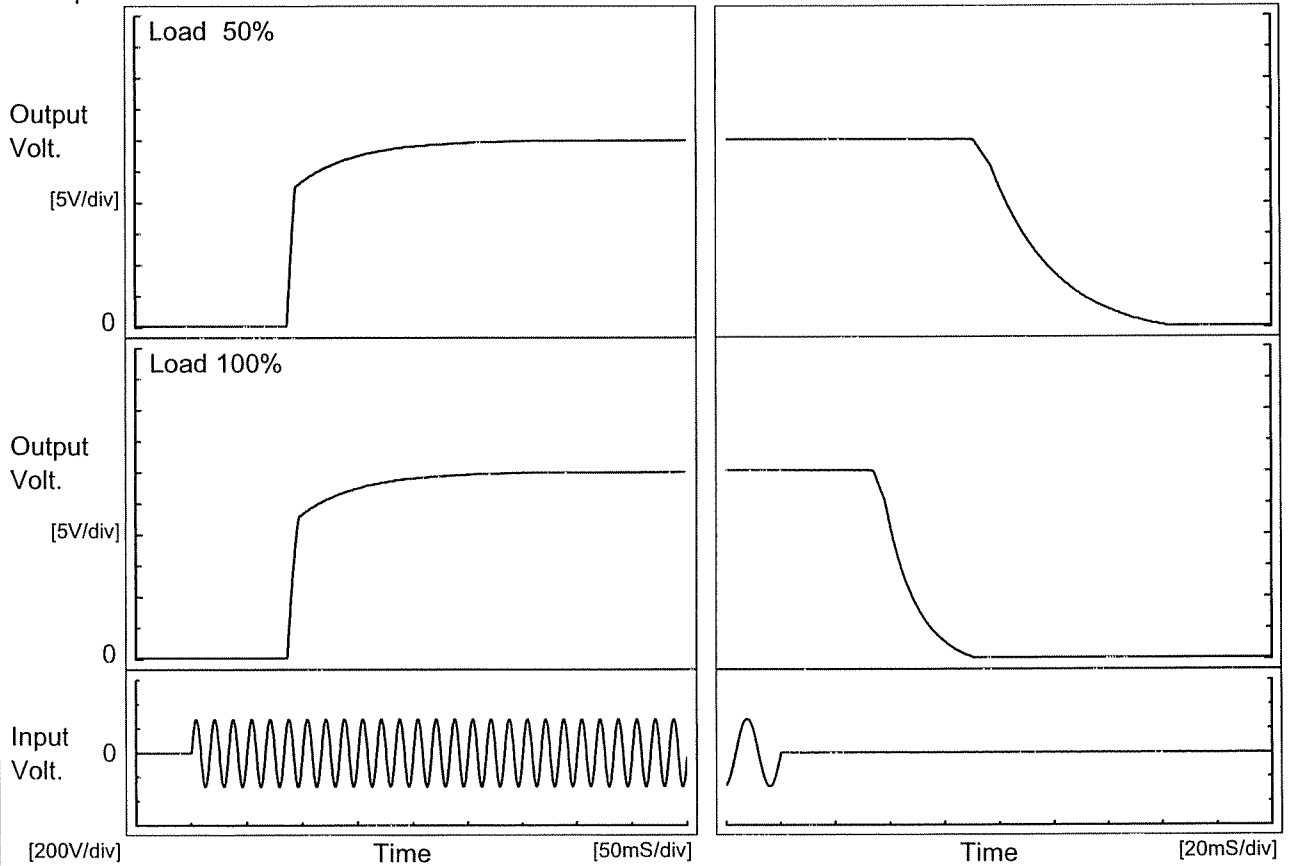


COSEL																								
Model	LDA150W-30																							
Item	Time Lapse Drift	Temperature 25°C Testing Circuitry Figure A																						
Object	+30V5A																							
<p>1.Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>30.324</td></tr> <tr><td>0.5</td><td>30.328</td></tr> <tr><td>1.0</td><td>30.328</td></tr> <tr><td>2.0</td><td>30.329</td></tr> <tr><td>3.0</td><td>30.328</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> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	30.324	0.5	30.328	1.0	30.328	2.0	30.329	3.0	30.328	4.0	30.329	5.0	30.329	6.0	30.329	7.0	30.329	8.0	30.329
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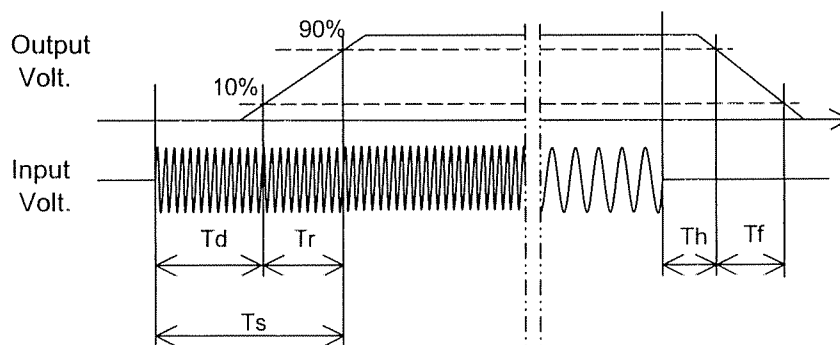
Model	LDA150W-30	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+30V5A		

1. Graph



2. Values

		[mS]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		87.5	55.8	143.3	74.9	44.3
100 %		87.5	55.5	143.0	36.6	22.5





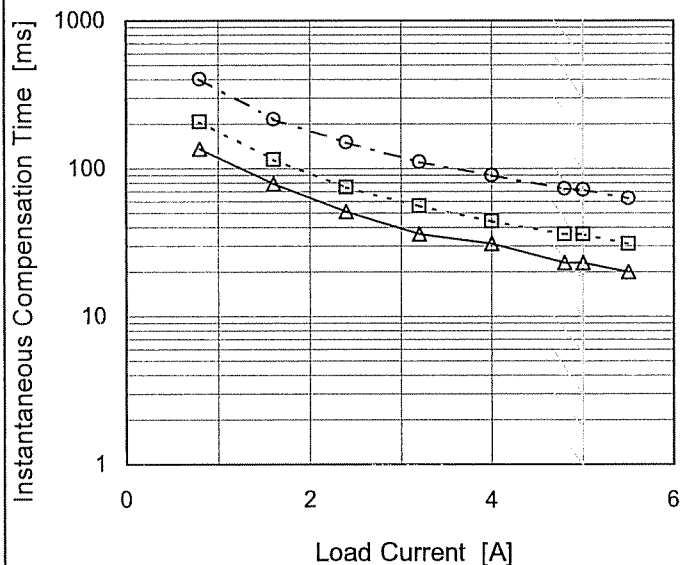
Model	LDA150W-30	Temperature	25°C																																
Item	Hold-Up Time	Testing Circuitry	Figure A																																
Object	+30V5A																																		
<p>1. Graph</p> <p style="text-align: right;"> ---□--- Load 50% —△— Load 100% </p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Hold-Up Time [ms]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>150</td><td>31</td><td>14</td></tr> <tr><td>160</td><td>38</td><td>18</td></tr> <tr><td>170</td><td>46</td><td>21</td></tr> <tr><td>180</td><td>54</td><td>25</td></tr> <tr><td>200</td><td>71</td><td>34</td></tr> <tr><td>220</td><td>90</td><td>44</td></tr> <tr><td>240</td><td>111</td><td>54</td></tr> <tr><td>264</td><td>138</td><td>69</td></tr> <tr><td>280</td><td>158</td><td>79</td></tr> </tbody> </table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	150	31	14	160	38	18	170	46	21	180	54	25	200	71	34	220	90	44	240	111	54	264	138	69	280	158	79
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
150	31	14																																	
160	38	18																																	
170	46	21																																	
180	54	25																																	
200	71	34																																	
220	90	44																																	
240	111	54																																	
264	138	69																																	
280	158	79																																	
<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>																																			



Model	LDA150W-30
Item	Instantaneous Interruption Compensation
Object	+30V5A

Temperature 25°C
Testing Circuitry Figure A

1.Graph
 —△— Input Volt. 170V
 ---□--- Input Volt. 200V
 - - - ○ - - - Input Volt. 264V



2.Values

Load Current [A]	Time [ms]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	-	-	-
0.8	136	207	402
1.6	79	115	216
2.4	51	75	151
3.2	36	56	111
4.0	31	44	90
4.8	23	36	73
5.0	23	36	72
5.5	20	31	63
--	-	-	-
--	-	-	-

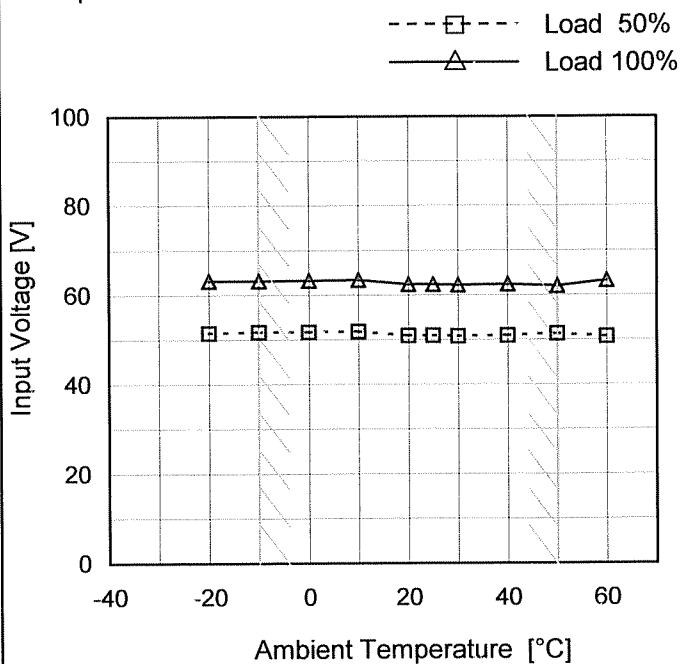
Note: Slanted line shows the range of the rated load current.



Model	LDA150W-30
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+30V5A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	52	64
-10	52	64
0	52	64
10	52	64
20	51	63
25	51	63
30	51	63
40	51	63
50	52	63
60	51	64
--	-	-

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



<p>Model LDA150W-30</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																																							
<p>Item Overcurrent Protection</p>																																																									
<p>Object +30V5A</p>																																																									
<p>1.Graph</p> <p> _____ Input Volt. 170V _____ Input Volt. 200V Input Volt. 264V </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>30.0</td><td>6.29</td><td>6.30</td><td>6.36</td></tr> <tr><td>28.5</td><td>6.31</td><td>6.32</td><td>6.41</td></tr> <tr><td>27.0</td><td>6.33</td><td>6.35</td><td>6.42</td></tr> <tr><td>24.0</td><td>6.37</td><td>6.41</td><td>6.48</td></tr> <tr><td>21.0</td><td>6.41</td><td>6.45</td><td>6.55</td></tr> <tr><td>18.0</td><td>6.46</td><td>6.50</td><td>6.60</td></tr> <tr><td>15.0</td><td>6.50</td><td>6.53</td><td>6.66</td></tr> <tr><td>12.0</td><td>6.54</td><td>6.58</td><td>6.71</td></tr> <tr><td>9.0</td><td>6.57</td><td>6.61</td><td>6.73</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>6.25</td><td>6.24</td></tr> <tr><td>0.0</td><td>6.86</td><td>6.99</td><td>7.54</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	30.0	6.29	6.30	6.36	28.5	6.31	6.32	6.41	27.0	6.33	6.35	6.42	24.0	6.37	6.41	6.48	21.0	6.41	6.45	6.55	18.0	6.46	6.50	6.60	15.0	6.50	6.53	6.66	12.0	6.54	6.58	6.71	9.0	6.57	6.61	6.73	6.0	6.53	6.55	6.57	3.0	6.27	6.25	6.24	0.0	6.86	6.99	7.54
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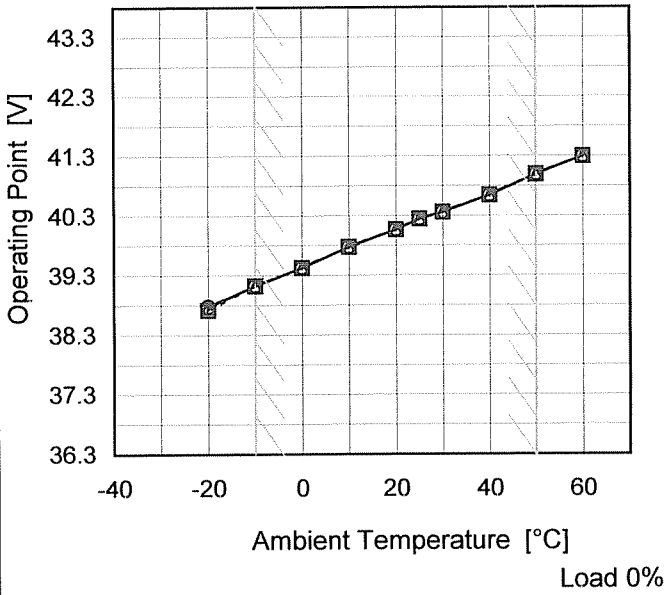


Model	LDA150W-30
Item	Overvoltage Protection
Object	+30V5A

Testing Circuitry Figure A

1. Graph
 —△— Input Volt. 170V
 ---□--- Input Volt. 200V
 -·-○-·- Input Volt. 264V

2. Values



Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	38.78	38.72	38.78
-10	39.13	39.13	39.13
0	39.43	39.43	39.43
10	39.78	39.78	39.78
20	40.07	40.07	40.07
25	40.25	40.25	40.25
30	40.36	40.36	40.36
40	40.65	40.65	40.65
50	41.00	41.00	41.00
60	41.30	41.30	41.30
--	-	-	-

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

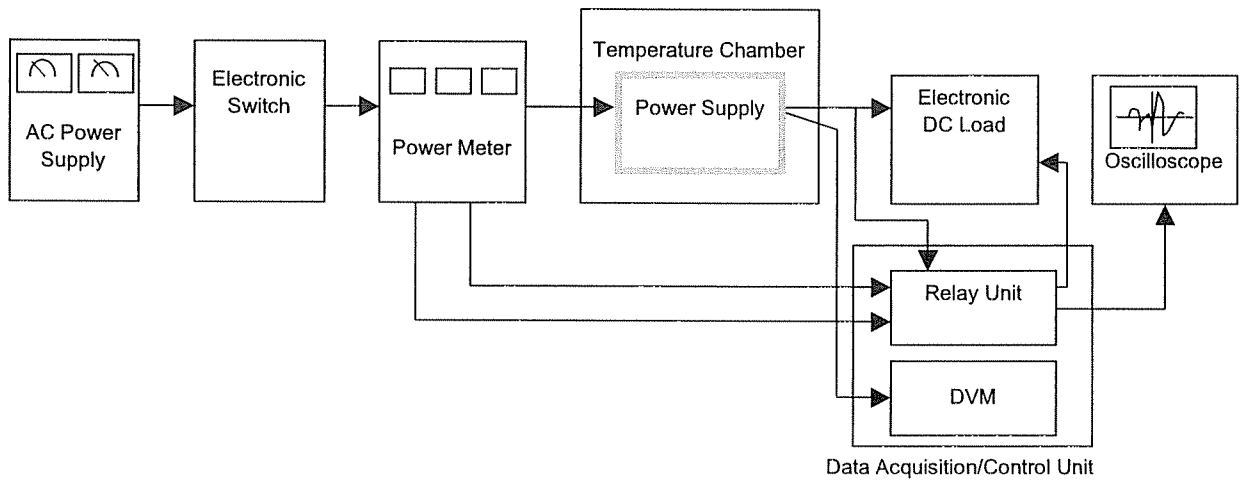


Figure A

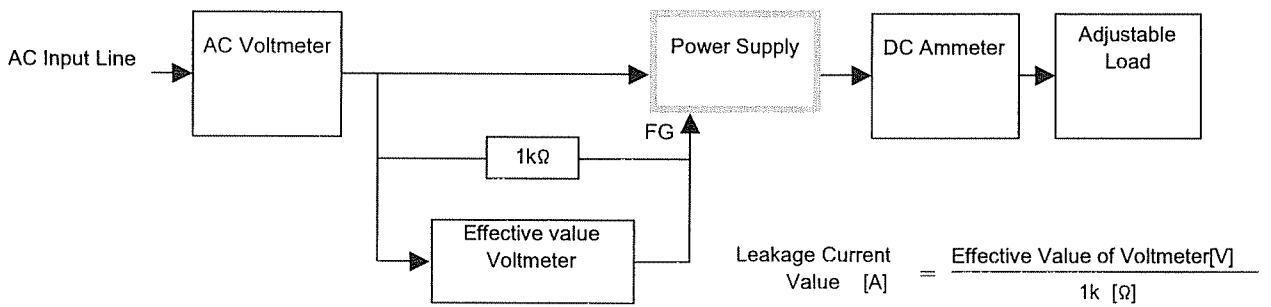


Figure B (DEN-AN)

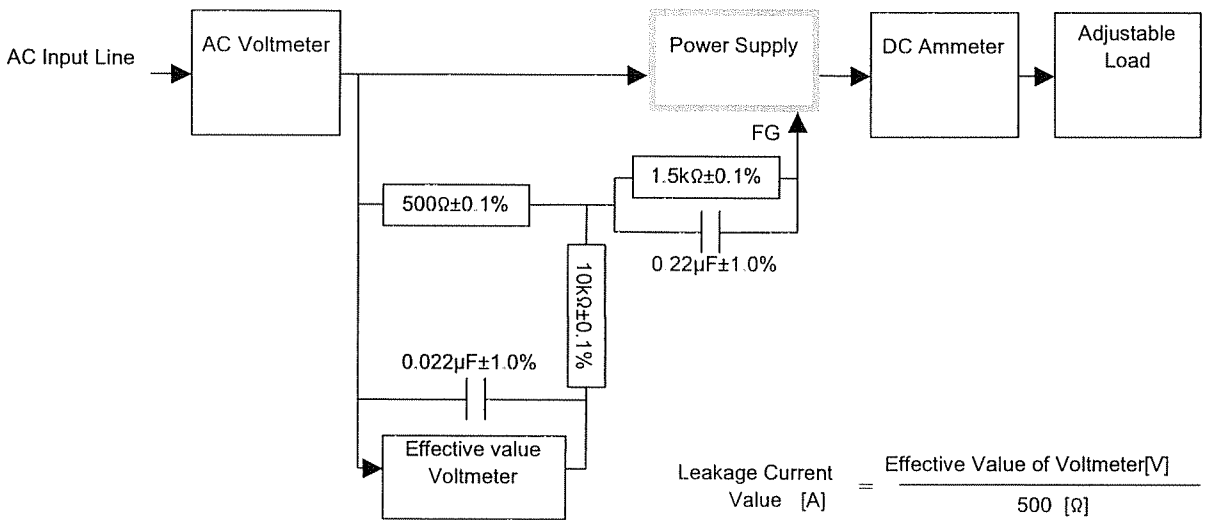


Figure B (IEC60950)