





## CONTENTS

1.Input Current (by Load Current) . . . . .	1
2.Input Power (by Load Current) . . . . .	2
3.Efficiency (by Input Voltage) . . . . .	3
4.Efficiency (by Load Current) . . . . .	4
5.Inrush Current . . . . .	5
6.Line Regulation . . . . .	6
7.Load Regulation . . . . .	7
8.Dynamic Load Response . . . . .	8
9.Ripple Voltage (by Load Current) . . . . .	9
10.Ripple-Noise . . . . .	10
11.Ripple Voltage (by Ambient Temperature) . . . . .	11
12.Ambient Temperature Drift . . . . .	12
13.Output Voltage Accuracy . . . . .	13
14.Time Lapse Drift . . . . .	14
15.Rise and Fall Time . . . . .	15
16.Hold-Up Time . . . . .	16
17.Instantaneous Interruption Compensation . . . . .	17
18.Minimum Input Voltage for Regulated Output Voltage . . . . .	18
19.Overcurrent Protection . . . . .	19
20.Overtoltage Protection . . . . .	20
21.Figure of Testing Circuitry . . . . .	21

(Final Page 21)



Model		LDA75F-3		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<p>—△— Input Volt. 100V</p> <p>- - □ - - Input Volt. 200V</p> <p>- · ○ - · Input Volt. 230V</p>		2.Values																																																				
				<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.056</td><td>0.062</td><td>0.064</td></tr> <tr><td>3.0</td><td>0.269</td><td>0.207</td><td>0.196</td></tr> <tr><td>6.0</td><td>0.464</td><td>0.320</td><td>0.296</td></tr> <tr><td>9.0</td><td>0.671</td><td>0.430</td><td>0.395</td></tr> <tr><td>12.0</td><td>0.890</td><td>0.544</td><td>0.496</td></tr> <tr><td>15.0</td><td>1.119</td><td>0.665</td><td>0.602</td></tr> <tr><td>16.5</td><td>1.241</td><td>0.730</td><td>0.661</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> </tbody> </table>		Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.056	0.062	0.064	3.0	0.269	0.207	0.196	6.0	0.464	0.320	0.296	9.0	0.671	0.430	0.395	12.0	0.890	0.544	0.496	15.0	1.119	0.665	0.602	16.5	1.241	0.730	0.661	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Current [A]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	0.056	0.062	0.064																																																					
3.0	0.269	0.207	0.196																																																					
6.0	0.464	0.320	0.296																																																					
9.0	0.671	0.430	0.395																																																					
12.0	0.890	0.544	0.496																																																					
15.0	1.119	0.665	0.602																																																					
16.5	1.241	0.730	0.661																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								



Model		LDA75F-3		Temperature	25°C																																																			
Item		Input Power (by Load Current)		Testing Circuitry	Figure A																																																			
Object																																																								
1.Graph		—△— Input Volt. 100V - - - □ - - - Input Volt. 200V - · - ○ - · - - Input Volt. 230V		2.Values																																																				
		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>2.01</td><td>3.70</td><td>4.40</td></tr> <tr><td>3.0</td><td>13.14</td><td>16.00</td><td>17.10</td></tr> <tr><td>6.0</td><td>24.70</td><td>27.10</td><td>28.30</td></tr> <tr><td>9.0</td><td>36.70</td><td>38.90</td><td>39.70</td></tr> <tr><td>12.0</td><td>49.30</td><td>50.90</td><td>51.90</td></tr> <tr><td>15.0</td><td>62.20</td><td>63.30</td><td>64.20</td></tr> <tr><td>16.5</td><td>68.80</td><td>69.80</td><td>70.60</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> </tbody> </table>				Load Current [A]	Input Power [W]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	2.01	3.70	4.40	3.0	13.14	16.00	17.10	6.0	24.70	27.10	28.30	9.0	36.70	38.90	39.70	12.0	49.30	50.90	51.90	15.0	62.20	63.30	64.20	16.5	68.80	69.80	70.60	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	2.01	3.70	4.40																																																					
3.0	13.14	16.00	17.10																																																					
6.0	24.70	27.10	28.30																																																					
9.0	36.70	38.90	39.70																																																					
12.0	49.30	50.90	51.90																																																					
15.0	62.20	63.30	64.20																																																					
16.5	68.80	69.80	70.60																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								



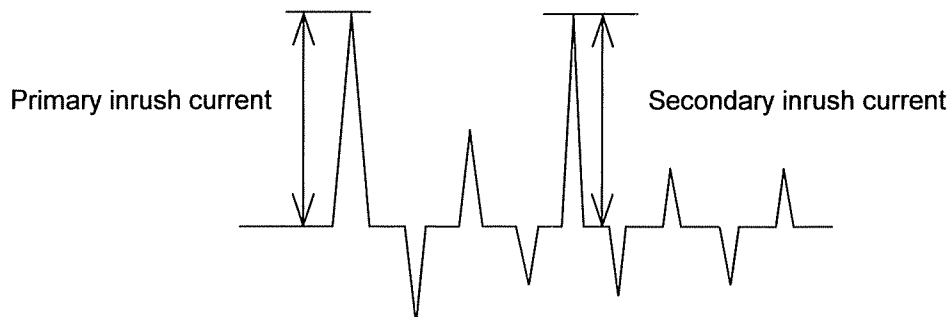
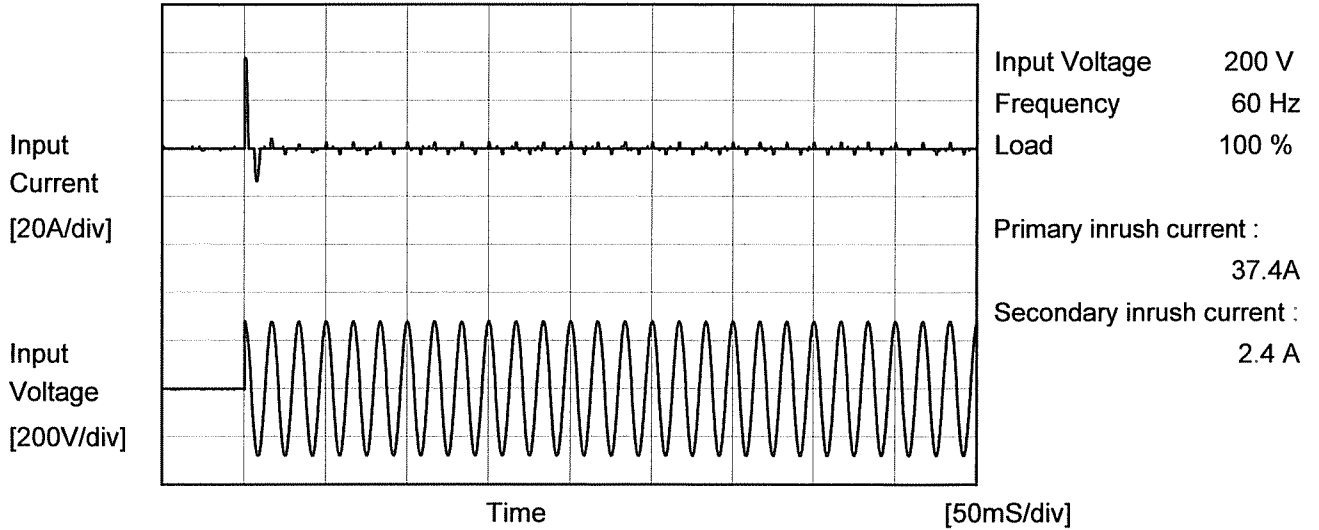
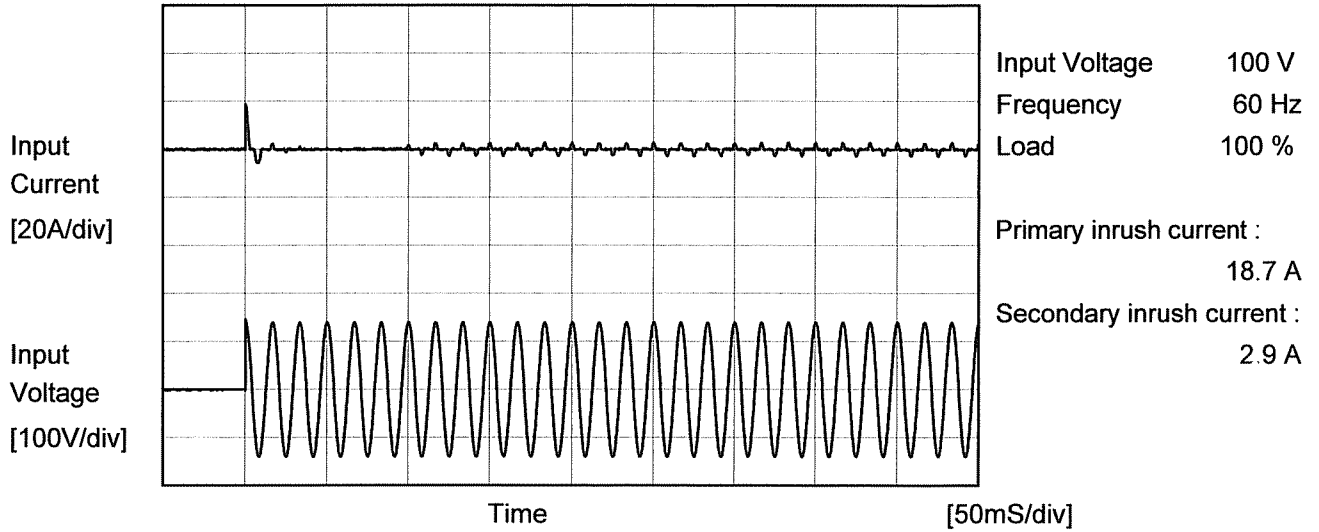
Model		LDA75F-3	Temperature 25°C																																	
Item		Efficiency (by Input Voltage)	Testing Circuitry Figure A																																	
Object		_____																																		
1.Graph		2.Values																																		
<p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>74.9</td> <td>72.4</td> </tr> <tr> <td>100</td> <td>74.9</td> <td>73.2</td> </tr> <tr> <td>120</td> <td>74.4</td> <td>73.7</td> </tr> <tr> <td>200</td> <td>69.8</td> <td>72.2</td> </tr> <tr> <td>230</td> <td>67.6</td> <td>71.2</td> </tr> <tr> <td>264</td> <td>64.3</td> <td>69.7</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table>			Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	85	74.9	72.4	100	74.9	73.2	120	74.4	73.7	200	69.8	72.2	230	67.6	71.2	264	64.3	69.7	--	-	-	--	-	-	--	-	-
Input Voltage [V]	Efficiency [%]																																			
	Load 50%	Load 100%																																		
85	74.9	72.4																																		
100	74.9	73.2																																		
120	74.4	73.7																																		
200	69.8	72.2																																		
230	67.6	71.2																																		
264	64.3	69.7																																		
--	-	-																																		
--	-	-																																		
--	-	-																																		



Model		LDA75F-3		Temperature	25°C																																																			
Item		Efficiency (by Load Current)		Testing Circuitry	Figure A																																																			
Object		_____																																																						
1.Graph		—△— Input Volt. 100V - - - □ - - - Input Volt. 200V - - - ○ - - - Input Volt. 230V		2.Values																																																				
		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>3.0</td><td>69.6</td><td>57.2</td><td>53.5</td></tr> <tr><td>6.0</td><td>74.0</td><td>67.4</td><td>64.6</td></tr> <tr><td>9.0</td><td>74.6</td><td>70.4</td><td>69.0</td></tr> <tr><td>12.0</td><td>74.0</td><td>71.7</td><td>70.3</td></tr> <tr><td>15.0</td><td>73.2</td><td>72.0</td><td>71.0</td></tr> <tr><td>16.5</td><td>72.8</td><td>71.8</td><td>70.9</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> </tbody> </table>				Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	3.0	69.6	57.2	53.5	6.0	74.0	67.4	64.6	9.0	74.6	70.4	69.0	12.0	74.0	71.7	70.3	15.0	73.2	72.0	71.0	16.5	72.8	71.8	70.9	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	-	-	-																																																					
3.0	69.6	57.2	53.5																																																					
6.0	74.0	67.4	64.6																																																					
9.0	74.6	70.4	69.0																																																					
12.0	74.0	71.7	70.3																																																					
15.0	73.2	72.0	71.0																																																					
16.5	72.8	71.8	70.9																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								



Model		LDA75F-3	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model	LDA75F-3	Temperature	25°C																																
Item	Line Regulation	Testing Circuitry	Figure A																																
Object	+3V15A																																		
<p>1.Graph</p> <p>---□--- Load 50% —△— Load 100%</p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>3.052</td> <td>3.044</td> </tr> <tr> <td>100</td> <td>3.052</td> <td>3.044</td> </tr> <tr> <td>120</td> <td>3.052</td> <td>3.044</td> </tr> <tr> <td>200</td> <td>3.053</td> <td>3.045</td> </tr> <tr> <td>230</td> <td>3.053</td> <td>3.045</td> </tr> <tr> <td>264</td> <td>3.053</td> <td>3.046</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	3.052	3.044	100	3.052	3.044	120	3.052	3.044	200	3.053	3.045	230	3.053	3.045	264	3.053	3.046	--	-	-	--	-	-	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
85	3.052	3.044																																	
100	3.052	3.044																																	
120	3.052	3.044																																	
200	3.053	3.045																																	
230	3.053	3.045																																	
264	3.053	3.046																																	
--	-	-																																	
--	-	-																																	
--	-	-																																	
<p>Note: Slanted line shows the range of the rated input voltage.</p>																																			





Model		LDA75F-3	Temperature		25°C																																																			
Item		Load Regulation	Testing Circuitry		Figure A																																																			
Object		+3V15A																																																						
1.Graph			2.Values																																																					
<p>                 —△— Input Volt. 100V                  - - - □ - - - Input Volt. 200V                  - · - ○ - · - - Input Volt. 230V             </p>			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>3.060</td><td>3.060</td><td>3.060</td></tr> <tr><td>3.0</td><td>3.057</td><td>3.057</td><td>3.057</td></tr> <tr><td>6.0</td><td>3.054</td><td>3.055</td><td>3.055</td></tr> <tr><td>9.0</td><td>3.051</td><td>3.052</td><td>3.052</td></tr> <tr><td>12.0</td><td>3.048</td><td>3.048</td><td>3.049</td></tr> <tr><td>15.0</td><td>3.044</td><td>3.045</td><td>3.046</td></tr> <tr><td>16.5</td><td>3.043</td><td>3.044</td><td>3.044</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> </tbody> </table>			Load Current [A]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	3.060	3.060	3.060	3.0	3.057	3.057	3.057	6.0	3.054	3.055	3.055	9.0	3.051	3.052	3.052	12.0	3.048	3.048	3.049	15.0	3.044	3.045	3.046	16.5	3.043	3.044	3.044	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	3.060	3.060	3.060																																																					
3.0	3.057	3.057	3.057																																																					
6.0	3.054	3.055	3.055																																																					
9.0	3.051	3.052	3.052																																																					
12.0	3.048	3.048	3.049																																																					
15.0	3.044	3.045	3.046																																																					
16.5	3.043	3.044	3.044																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
<p>Note: Slanted line shows the range of the rated load current.</p>																																																								



Model	LDA75F-3	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+3V15A		

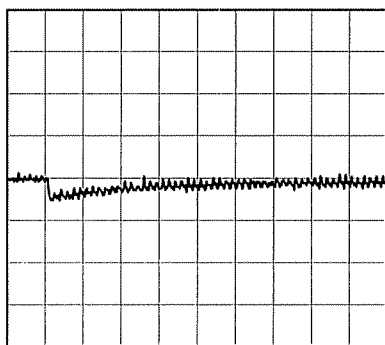
Input Volt. 100 V  
Cycle 1000 ms



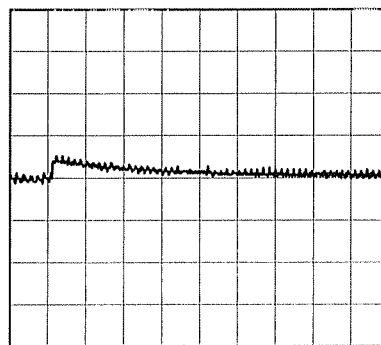
Min. Load (0A) ←→

1 Load 100% (15A)

100 mV/div



10 ms/div

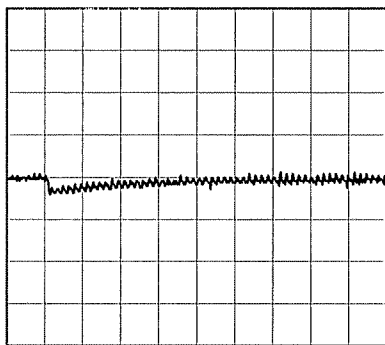


10 ms/div

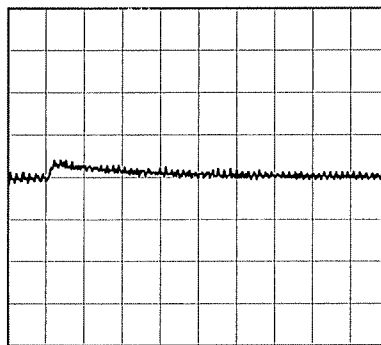
Min. Load (0A) ←→

Load 50% (7.5A)

100 mV/div



10 ms/div



10 ms/div



<p>Model LDA75F-3</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																						
<p>Item Ripple Voltage (by Load Current)</p>																																								
<p>Object +3V15A</p>																																								
<p>1. Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 100V - -○- - Input Volt. 200V</p> </div> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p> <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>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 100 [V]</th> <th>Input Volt. 200 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>20</td><td>20</td></tr> <tr><td>3.0</td><td>20</td><td>20</td></tr> <tr><td>6.0</td><td>25</td><td>25</td></tr> <tr><td>9.0</td><td>25</td><td>25</td></tr> <tr><td>12.0</td><td>25</td><td>25</td></tr> <tr><td>15.0</td><td>25</td><td>25</td></tr> <tr><td>16.5</td><td>30</td><td>30</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Load Current [A]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 200 [V]	0.0	20	20	3.0	20	20	6.0	25	25	9.0	25	25	12.0	25	25	15.0	25	25	16.5	30	30	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																							
	Input Volt. 100 [V]	Input Volt. 200 [V]																																						
0.0	20	20																																						
3.0	20	20																																						
6.0	25	25																																						
9.0	25	25																																						
12.0	25	25																																						
15.0	25	25																																						
16.5	30	30																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						
<p>T1: Due to AC Input Line T2: Due to Switching</p> <p>Ripple [mVp-p]</p> <p>Fig. Complex Ripple Wave Form</p>																																								



<p>Model LDA75F-3</p> <p>Item Ripple-Noise</p> <p>Object +3V15A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
<p>1. Graph</p> <p>—△— Input Volt. 100V</p> <p>- - -○- - - Input Volt. 200V</p> <p>Ripple-Noise [mV]</p> <p>Load Current [A]</p> <p>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.</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple-Noise [mV]</th> </tr> <tr> <th>Input Volt. 100 [V]</th> <th>Input Volt. 200 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>25</td><td>25</td></tr> <tr><td>3.0</td><td>25</td><td>30</td></tr> <tr><td>6.0</td><td>30</td><td>30</td></tr> <tr><td>9.0</td><td>30</td><td>30</td></tr> <tr><td>12.0</td><td>30</td><td>35</td></tr> <tr><td>15.0</td><td>30</td><td>35</td></tr> <tr><td>16.5</td><td>35</td><td>40</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</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. 100 [V]	Input Volt. 200 [V]	0.0	25	25	3.0	25	30	6.0	30	30	9.0	30	30	12.0	30	35	15.0	30	35	16.5	35	40	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																							
	Input Volt. 100 [V]	Input Volt. 200 [V]																																						
0.0	25	25																																						
3.0	25	30																																						
6.0	30	30																																						
9.0	30	30																																						
12.0	30	35																																						
15.0	30	35																																						
16.5	35	40																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						
<p>T1: Due to AC Input Line</p> <p>T2: Due to Switching</p> <p>Ripple-Noise [mVp-p]</p> <p>Fig. Complex Ripple Wave Form</p>																																								



Model		LDA75F-3	Testing Circuitry Figure A																																							
Item		Ripple Voltage (by Ambient Temp.)																																								
Object		+3V15A																																								
1. Graph			2. Values																																							
<p>                     --- □ --- Input Volt. 100V                      — △ — Input Volt. 200V                 </p> <p>                     Y-axis: Ripple Voltage [mV] (0 to 200)                      X-axis: Ambient Temperature [°C] (-30 to 70)                      Load 100 %                 </p>			<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 100 [V]</th> <th>Input Volt. 200 [V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>40</td><td>40</td></tr> <tr><td>-10</td><td>40</td><td>40</td></tr> <tr><td>0</td><td>35</td><td>35</td></tr> <tr><td>10</td><td>30</td><td>35</td></tr> <tr><td>20</td><td>30</td><td>30</td></tr> <tr><td>25</td><td>30</td><td>30</td></tr> <tr><td>30</td><td>25</td><td>25</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>25</td><td>25</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 200 [V]	-20	40	40	-10	40	40	0	35	35	10	30	35	20	30	30	25	30	30	30	25	25	40	25	25	50	25	25	60	25	25	--	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																									
	Input Volt. 100 [V]	Input Volt. 200 [V]																																								
-20	40	40																																								
-10	40	40																																								
0	35	35																																								
10	30	35																																								
20	30	30																																								
25	30	30																																								
30	25	25																																								
40	25	25																																								
50	25	25																																								
60	25	25																																								
--	-	-																																								
<p>Measured by 20 MHz Oscilloscope.                      Note: Slanted line shows the range of the rated ambient temperature.</p>																																										



Model		LDA75F-3																																																					
Item		Ambient Temperature Drift	Testing Circuitry Figure A																																																				
Object		+3V15A																																																					
1.Graph		<p>—△— Input Volt. 100V</p> <p>---□--- Input Volt. 200V</p> <p>-·-○-·- Input Volt. 230V</p>	2.Values																																																				
		<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>3.037</td><td>3.038</td><td>3.039</td></tr> <tr><td>-10</td><td>3.039</td><td>3.040</td><td>3.041</td></tr> <tr><td>0</td><td>3.041</td><td>3.042</td><td>3.042</td></tr> <tr><td>10</td><td>3.044</td><td>3.044</td><td>3.045</td></tr> <tr><td>25</td><td>3.046</td><td>3.047</td><td>3.047</td></tr> <tr><td>40</td><td>3.047</td><td>3.048</td><td>3.048</td></tr> <tr><td>50</td><td>3.047</td><td>3.048</td><td>3.049</td></tr> <tr><td>60</td><td>3.047</td><td>3.047</td><td>3.048</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> </tbody> </table>			Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	-20	3.037	3.038	3.039	-10	3.039	3.040	3.041	0	3.041	3.042	3.042	10	3.044	3.044	3.045	25	3.046	3.047	3.047	40	3.047	3.048	3.048	50	3.047	3.048	3.049	60	3.047	3.047	3.048	--	-	-	-	--	-	-	-	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																				
-20	3.037	3.038	3.039																																																				
-10	3.039	3.040	3.041																																																				
0	3.041	3.042	3.042																																																				
10	3.044	3.044	3.045																																																				
25	3.046	3.047	3.047																																																				
40	3.047	3.048	3.048																																																				
50	3.047	3.048	3.049																																																				
60	3.047	3.047	3.048																																																				
--	-	-	-																																																				
--	-	-	-																																																				
--	-	-	-																																																				
Note: Slanted line shows the range of the rated ambient temperature.																																																							



<b>COSEL</b>		
Model	LDA75F-3	
Item	Output Voltage Accuracy	Testing Circuitry Figure A
Object	+3V15A	

### 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 - 264V

Load Current : 0 - 15A

\* 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	50	85	0	3.065	±13	±0.4
Minimum Voltage	-10	85	15	3.040		



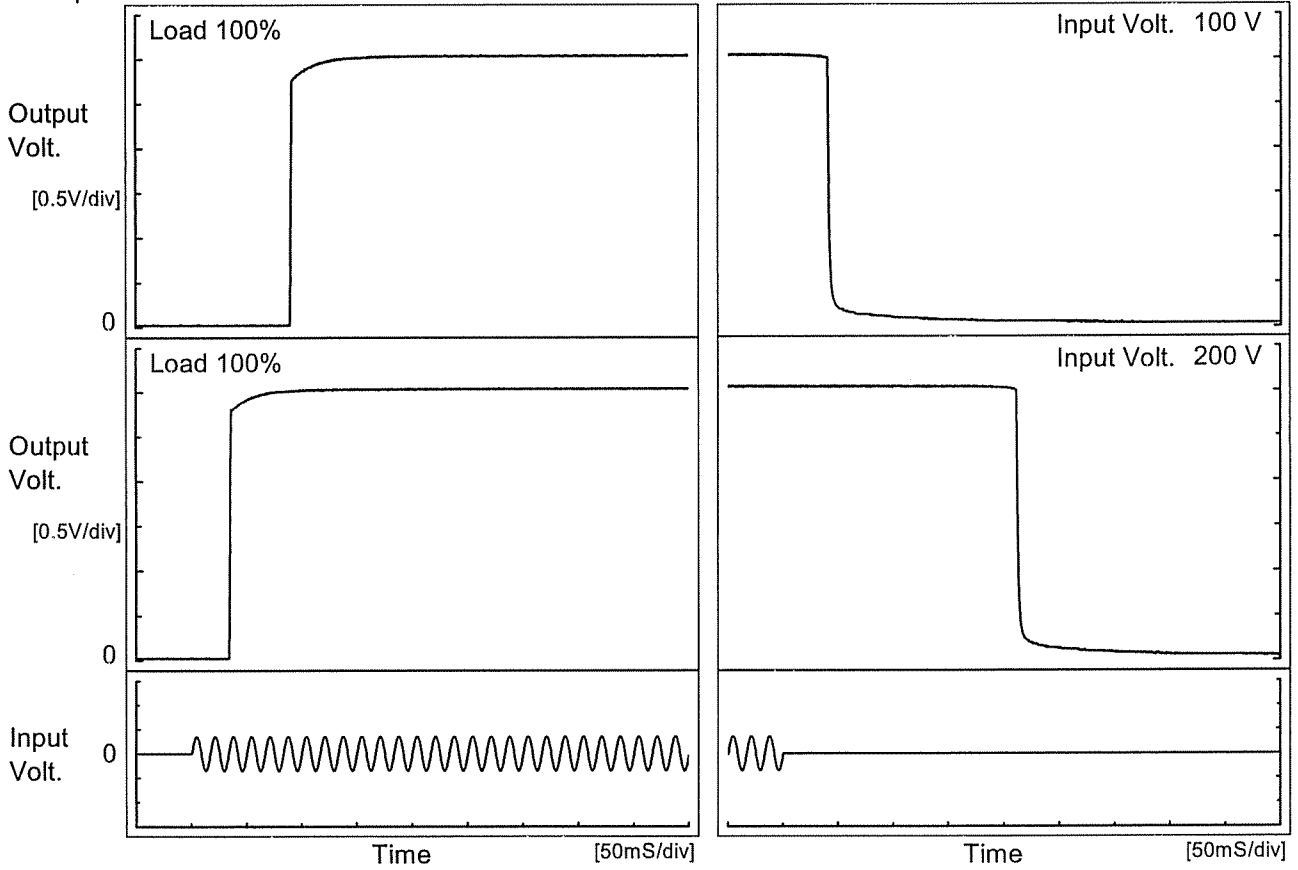
<b>COSEL</b>																									
Model	LDA75F-3	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+3V15A																								
<p>1.Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt.    100V Load            100%</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>3.044</td></tr> <tr><td>0.5</td><td>3.045</td></tr> <tr><td>1.0</td><td>3.046</td></tr> <tr><td>2.0</td><td>3.046</td></tr> <tr><td>3.0</td><td>3.046</td></tr> <tr><td>4.0</td><td>3.046</td></tr> <tr><td>5.0</td><td>3.046</td></tr> <tr><td>6.0</td><td>3.046</td></tr> <tr><td>7.0</td><td>3.046</td></tr> <tr><td>8.0</td><td>3.046</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	3.044	0.5	3.045	1.0	3.046	2.0	3.046	3.0	3.046	4.0	3.046	5.0	3.046	6.0	3.046	7.0	3.046	8.0	3.046
Time since start [H]	Output Voltage [V]																								
0.0	3.044																								
0.5	3.045																								
1.0	3.046																								
2.0	3.046																								
3.0	3.046																								
4.0	3.046																								
5.0	3.046																								
6.0	3.046																								
7.0	3.046																								
8.0	3.046																								
<p>* The characteristic of AC200V is equal.</p>																									





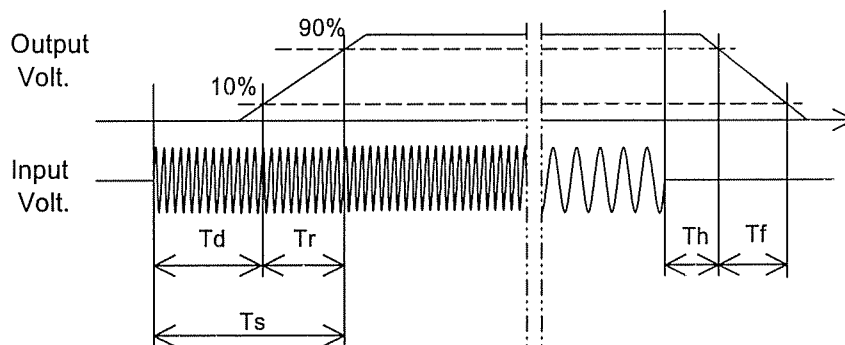
Model		LDA75F-3	Temperature		25°C
Item		Rise and Fall Time	Testing Circuitry		Figure A
Object		+3V15A			

1. Graph



2. Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	90.3	1.5	91.8	40.0	5.5
200 V	34.3	2.0	36.3	211.5	5.3





Model		LDA75F-3	Temperature 25°C Testing Circuitry Figure A																																
Item		Hold-Up Time																																	
Object		+3V15A																																	
1.Graph			2.Values																																
			<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>85</td> <td>54</td> <td>25</td> </tr> <tr> <td>100</td> <td>86</td> <td>41</td> </tr> <tr> <td>120</td> <td>137</td> <td>66</td> </tr> <tr> <td>200</td> <td>431</td> <td>215</td> </tr> <tr> <td>230</td> <td>576</td> <td>290</td> </tr> <tr> <td>264</td> <td>762</td> <td>388</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	54	25	100	86	41	120	137	66	200	431	215	230	576	290	264	762	388	--	-	-	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
85	54	25																																	
100	86	41																																	
120	137	66																																	
200	431	215																																	
230	576	290																																	
264	762	388																																	
--	-	-																																	
--	-	-																																	
--	-	-																																	
<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>Model LDA75F-3</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																																			
<p>Item Instantaneous Interruption Compensation</p>																																																					
<p>Object +3V15A</p>																																																					
<p>1.Graph</p> <p> <span style="display: inline-block; width: 1em; border-bottom: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; border-radius: 50%; margin-right: 0.5em;"></span> </p> <p> <span style="display: inline-block; width: 1em; border-bottom: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; border-radius: 50%; margin-right: 0.5em;"></span> </p> <p> <span style="display: inline-block; width: 1em; border-bottom: 1px dashed black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; border-radius: 50%; margin-right: 0.5em;"></span> </p> <p> <span style="display: inline-block; width: 1em; border-bottom: 1px dash-dot black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; margin-right: 0.5em;"></span> <span style="display: inline-block; width: 0.5em; height: 0.5em; border: 1px solid black; border-radius: 50%; margin-right: 0.5em;"></span> </p> <p> <span style="display: inline-block; width: 1em; border-bottom: 1px solid black; margin-right: 0.5em;"></span> Input Volt. 100V  <span style="display: inline-block; width: 1em; border-bottom: 1px dashed black; margin-right: 0.5em;"></span> Input Volt. 200V  <span style="display: inline-block; width: 1em; border-bottom: 1px dash-dot black; margin-right: 0.5em;"></span> Input Volt. 230V                 </p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>3.0</td><td>218</td><td>976</td><td>1273</td></tr> <tr><td>6.0</td><td>112</td><td>540</td><td>720</td></tr> <tr><td>9.0</td><td>73</td><td>366</td><td>490</td></tr> <tr><td>12.0</td><td>53</td><td>274</td><td>370</td></tr> <tr><td>15.0</td><td>40</td><td>217</td><td>293</td></tr> <tr><td>16.5</td><td>36</td><td>195</td><td>265</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> </tbody> </table>	Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	3.0	218	976	1273	6.0	112	540	720	9.0	73	366	490	12.0	53	274	370	15.0	40	217	293	16.5	36	195	265	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																				
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																		
0.0	-	-	-																																																		
3.0	218	976	1273																																																		
6.0	112	540	720																																																		
9.0	73	366	490																																																		
12.0	53	274	370																																																		
15.0	40	217	293																																																		
16.5	36	195	265																																																		
--	-	-	-																																																		
--	-	-	-																																																		
--	-	-	-																																																		
--	-	-	-																																																		
<p>Note: Slanted line shows the range of the rated load current.</p>																																																					



<b>COSEL</b>																																								
Model	LDA75F-3																																							
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																																						
Object	+3V15A																																							
<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">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>55</td><td>61</td></tr> <tr><td>-10</td><td>54</td><td>59</td></tr> <tr><td>0</td><td>53</td><td>59</td></tr> <tr><td>10</td><td>53</td><td>58</td></tr> <tr><td>25</td><td>52</td><td>58</td></tr> <tr><td>40</td><td>52</td><td>58</td></tr> <tr><td>50</td><td>52</td><td>58</td></tr> <tr><td>60</td><td>52</td><td>58</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	55	61	-10	54	59	0	53	59	10	53	58	25	52	58	40	52	58	50	52	58	60	52	58	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																							
	Load 50%	Load 100%																																						
-20	55	61																																						
-10	54	59																																						
0	53	59																																						
10	53	58																																						
25	52	58																																						
40	52	58																																						
50	52	58																																						
60	52	58																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						
<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																								



<p>Model LDA75F-3</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																								
<p>Item Overcurrent Protection</p>	<p>Object +3V15A</p>																																									
<p>1.Graph</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>————— Input Volt. 100V</p> <p>————— Input Volt. 200V</p> </div> </div> <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="2">Load Current [A]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> </tr> </thead> <tbody> <tr><td>3.00</td><td>16.37</td><td>17.65</td></tr> <tr><td>2.85</td><td>18.78</td><td>18.77</td></tr> <tr><td>2.70</td><td>18.82</td><td>18.79</td></tr> <tr><td>2.40</td><td>18.90</td><td>18.85</td></tr> <tr><td>2.10</td><td>18.98</td><td>18.90</td></tr> <tr><td>1.80</td><td>19.04</td><td>18.95</td></tr> <tr><td>1.50</td><td>19.16</td><td>18.97</td></tr> <tr><td>1.20</td><td>19.26</td><td>18.97</td></tr> <tr><td>0.90</td><td>19.33</td><td>18.87</td></tr> <tr><td>0.60</td><td>19.39</td><td>18.61</td></tr> <tr><td>0.30</td><td>19.34</td><td>18.10</td></tr> <tr><td>0.00</td><td>18.86</td><td>17.36</td></tr> </tbody> </table>		Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 200[V]	3.00	16.37	17.65	2.85	18.78	18.77	2.70	18.82	18.79	2.40	18.90	18.85	2.10	18.98	18.90	1.80	19.04	18.95	1.50	19.16	18.97	1.20	19.26	18.97	0.90	19.33	18.87	0.60	19.39	18.61	0.30	19.34	18.10	0.00	18.86	17.36
Output Voltage [V]	Load Current [A]																																									
	Input Volt. 100[V]	Input Volt. 200[V]																																								
3.00	16.37	17.65																																								
2.85	18.78	18.77																																								
2.70	18.82	18.79																																								
2.40	18.90	18.85																																								
2.10	18.98	18.90																																								
1.80	19.04	18.95																																								
1.50	19.16	18.97																																								
1.20	19.26	18.97																																								
0.90	19.33	18.87																																								
0.60	19.39	18.61																																								
0.30	19.34	18.10																																								
0.00	18.86	17.36																																								



<b>COSEL</b>																																								
Model	LDA75F-3																																							
Item	Overvoltage Protection	Testing Circuitry Figure A																																						
Object	+3V15A																																							
<p>1.Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 100V</p> <p>- - - □ - - - Input Volt. 200V</p> </div> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: right;">Load 0%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Operating Point [V]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>4.83</td><td>4.83</td></tr> <tr><td>-10</td><td>4.78</td><td>4.83</td></tr> <tr><td>0</td><td>4.72</td><td>4.78</td></tr> <tr><td>10</td><td>4.72</td><td>4.72</td></tr> <tr><td>25</td><td>4.66</td><td>4.66</td></tr> <tr><td>40</td><td>4.60</td><td>4.59</td></tr> <tr><td>50</td><td>4.48</td><td>4.48</td></tr> <tr><td>60</td><td>4.48</td><td>4.48</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Operating Point [V]		Input Volt. 100[V]	Input Volt. 200[V]	-20	4.83	4.83	-10	4.78	4.83	0	4.72	4.78	10	4.72	4.72	25	4.66	4.66	40	4.60	4.59	50	4.48	4.48	60	4.48	4.48	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Operating Point [V]																																							
	Input Volt. 100[V]	Input Volt. 200[V]																																						
-20	4.83	4.83																																						
-10	4.78	4.83																																						
0	4.72	4.78																																						
10	4.72	4.72																																						
25	4.66	4.66																																						
40	4.60	4.59																																						
50	4.48	4.48																																						
60	4.48	4.48																																						
--	-	-																																						
--	-	-																																						
--	-	-																																						

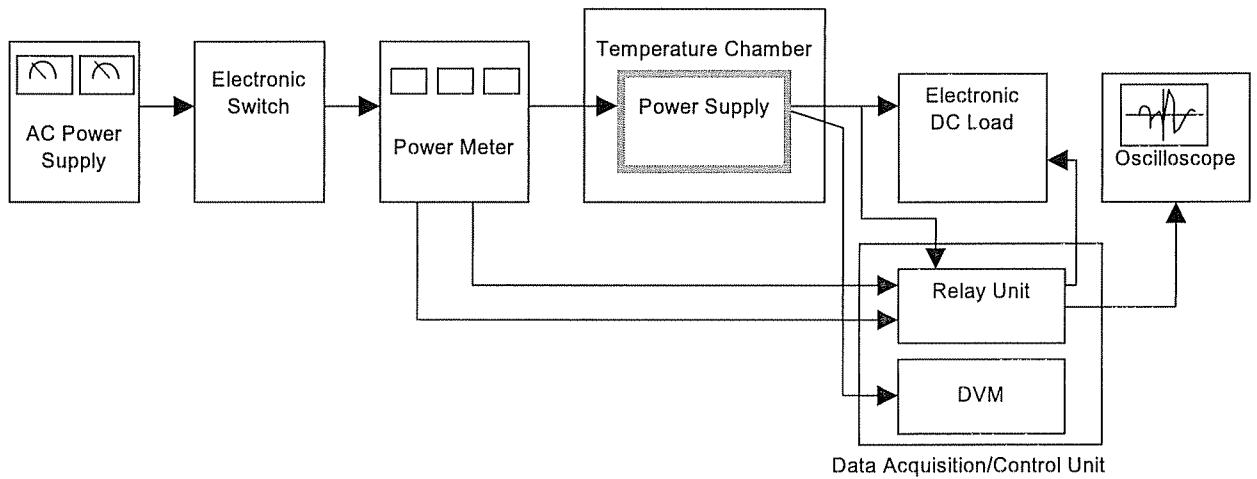


Figure A

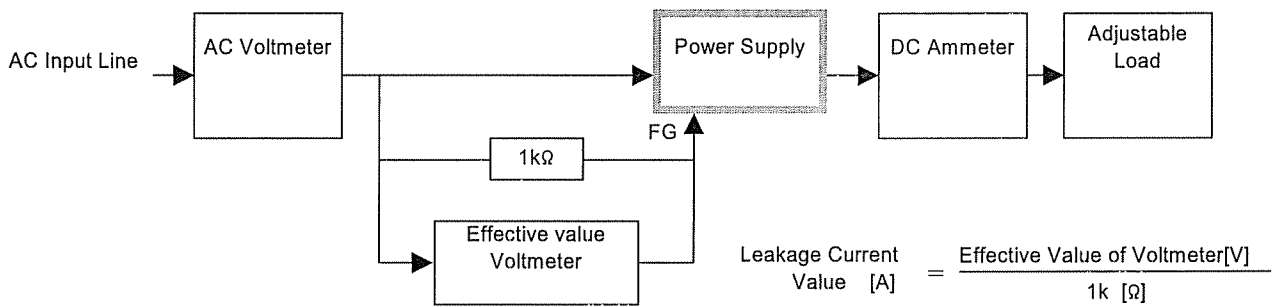


Figure B ( DEN-AN )

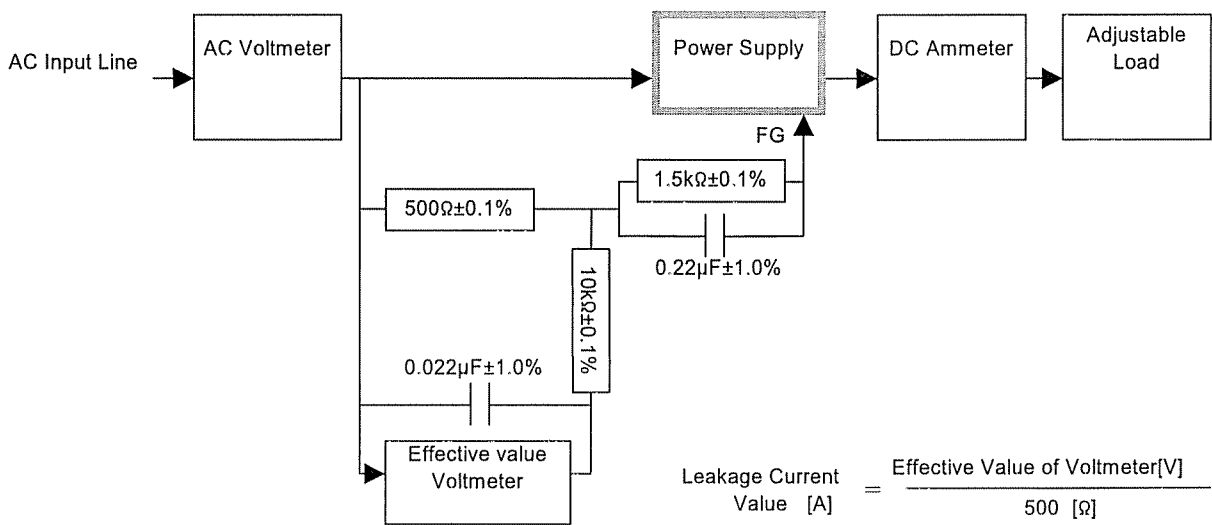


Figure B ( IEC60950 )