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(Final Page 20)



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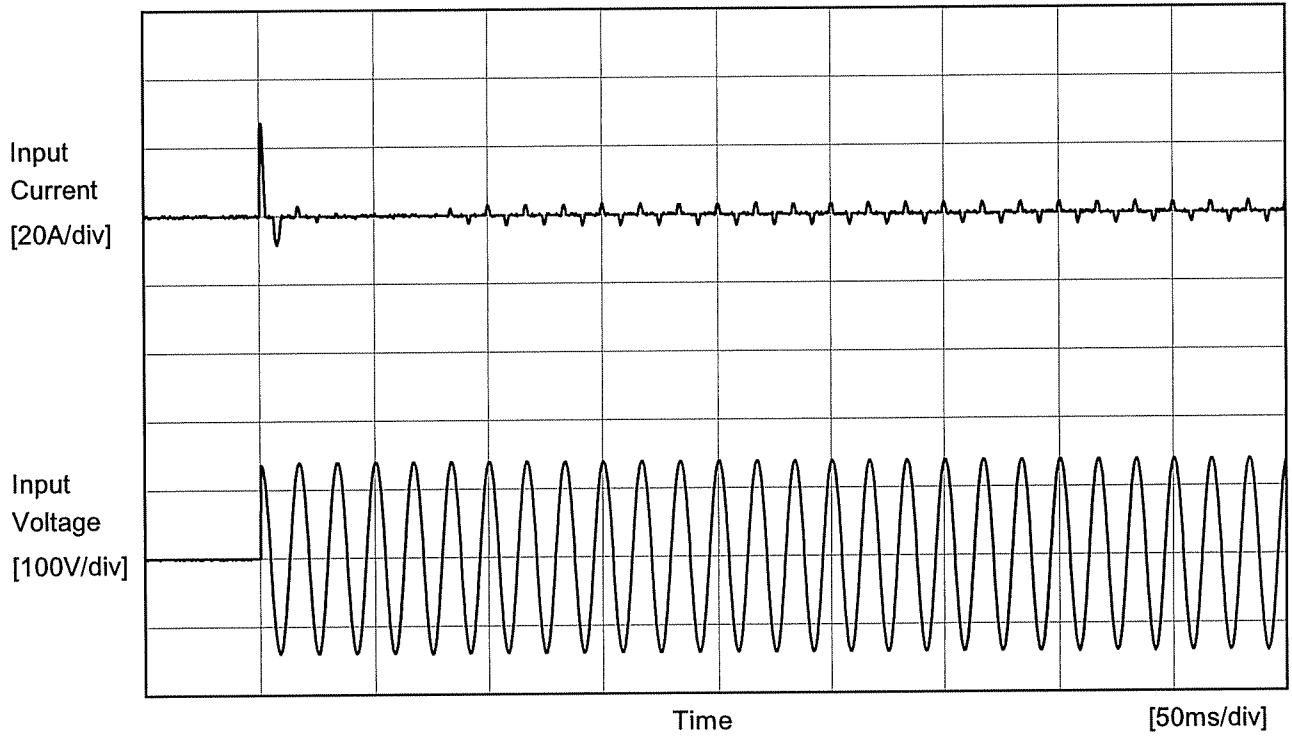
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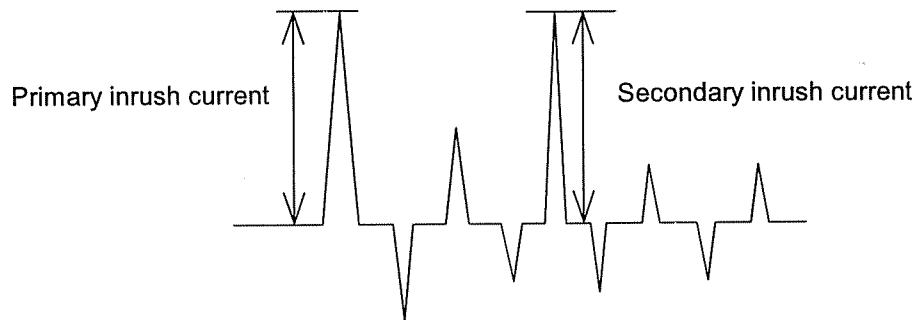


Model		LCA75S-3	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	



Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %

Primary inrush current 27.1 A
 Secondary inrush current 3.3 A





COSEL																																		
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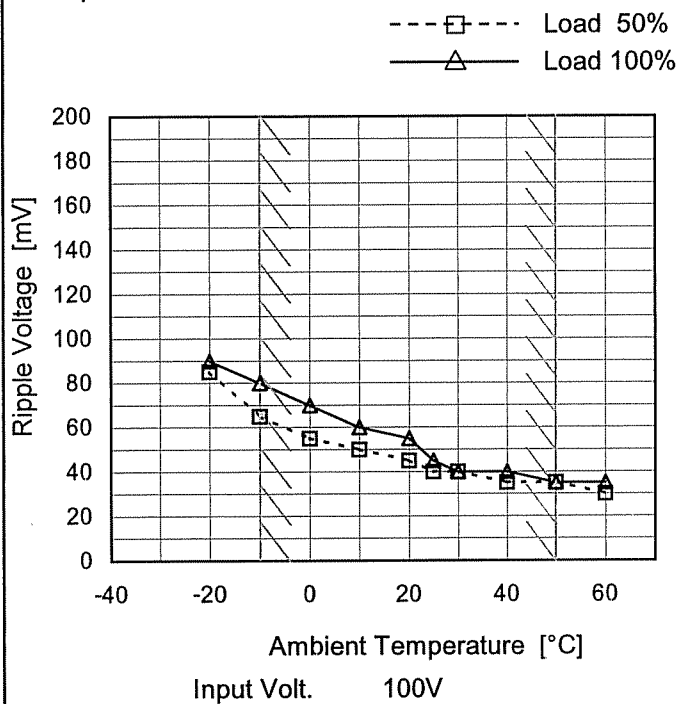
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16.5	50	55																																						
--	-	-																																						
--	-	-																																						
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<p>T1: Due to AC Input Line</p> <p>T2: Due to Switching</p> <p>Ripple-Noise [mVp-p]</p> <p>Fig. Complex Ripple Wave Form</p>																																								



Model	LCA75S-3
Item	Ripple Voltage (by Ambient Temp.)
Object	+3V15A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	85	90
-10	65	80
0	55	70
10	50	60
20	45	55
25	40	45
30	40	40
40	35	40
50	35	35
60	30	35
--	-	-



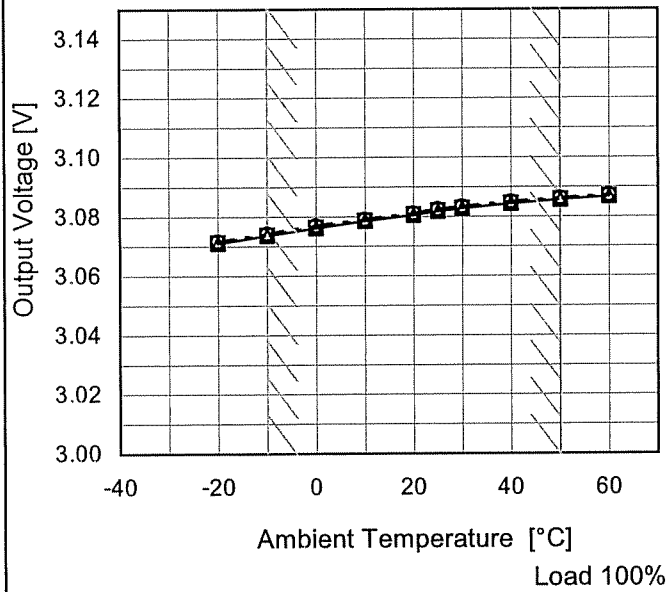
Model	LCA75S-3
Item	Ambient Temperature Drift
Object	+3V15A

Testing Circuitry Figure A

1. Graph

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

2. Values



Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	3.071	3.071	3.072
-10	3.074	3.074	3.074
0	3.076	3.077	3.077
10	3.079	3.079	3.079
20	3.081	3.081	3.081
25	3.082	3.082	3.083
30	3.083	3.083	3.083
40	3.084	3.085	3.085
50	3.086	3.086	3.086
60	3.087	3.087	3.087
--	-	-	-

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



COSEL		Testing Circuitry Figure A
Model	LCA75S-3	
Item	Output Voltage Accuracy	
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 - 132V

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	132	15	3.087	±7	±0.2
Minimum Voltage	-10	85	0	3.074		

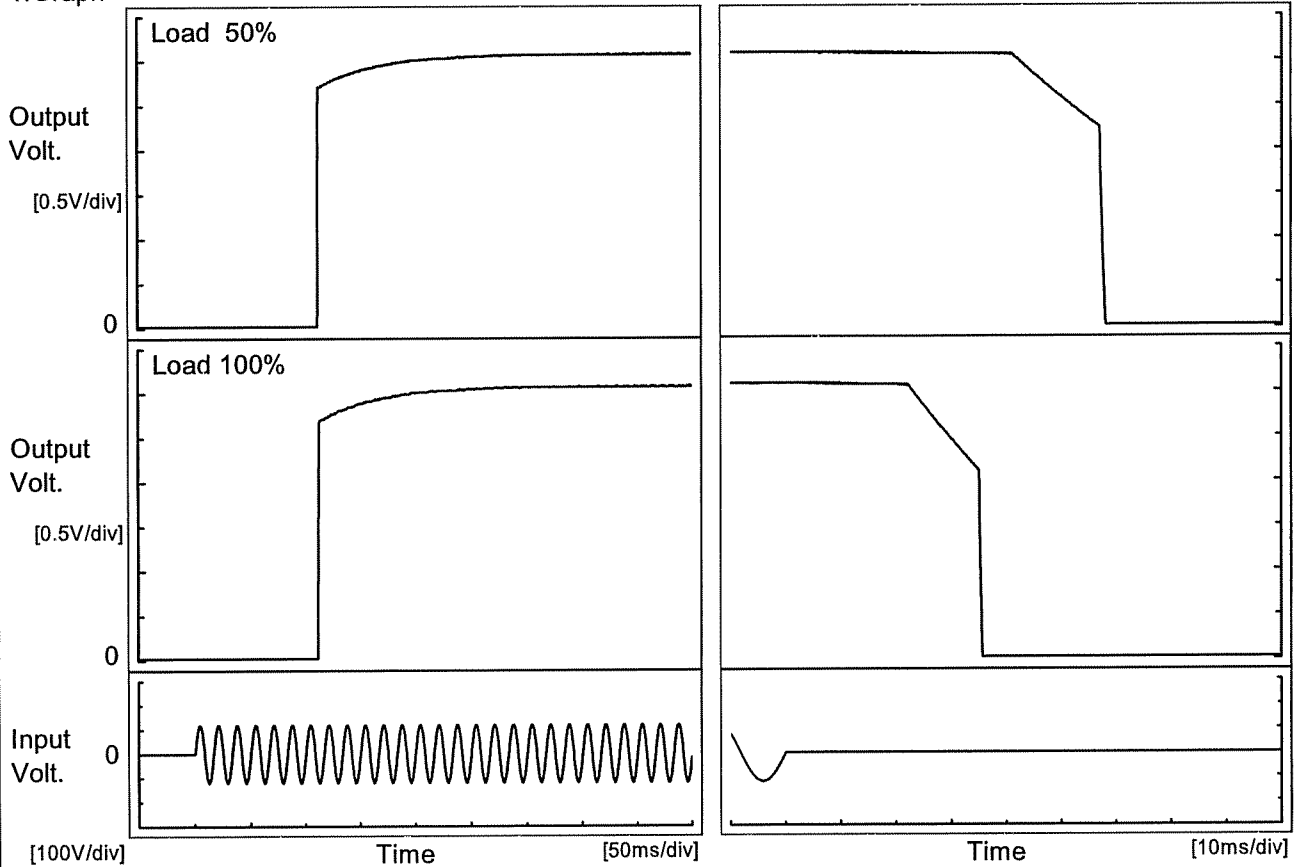


COSEL																								
Model	LCA75S-3	Temperature 25°C Testing Circuitry Figure A																						
Item	Time Lapse Drift																							
Object	+3V15A																							
1.Graph		2.Values																						
<p style="text-align: center;">Time [H]</p> <p>Input Volt. 100V Load 100%</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>3.082</td></tr> <tr><td>0.5</td><td>3.084</td></tr> <tr><td>1.0</td><td>3.084</td></tr> <tr><td>2.0</td><td>3.084</td></tr> <tr><td>3.0</td><td>3.084</td></tr> <tr><td>4.0</td><td>3.084</td></tr> <tr><td>5.0</td><td>3.084</td></tr> <tr><td>6.0</td><td>3.084</td></tr> <tr><td>7.0</td><td>3.084</td></tr> <tr><td>8.0</td><td>3.084</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	3.082	0.5	3.084	1.0	3.084	2.0	3.084	3.0	3.084	4.0	3.084	5.0	3.084	6.0	3.084	7.0	3.084	8.0	3.084
Time since start [H]	Output Voltage [V]																							
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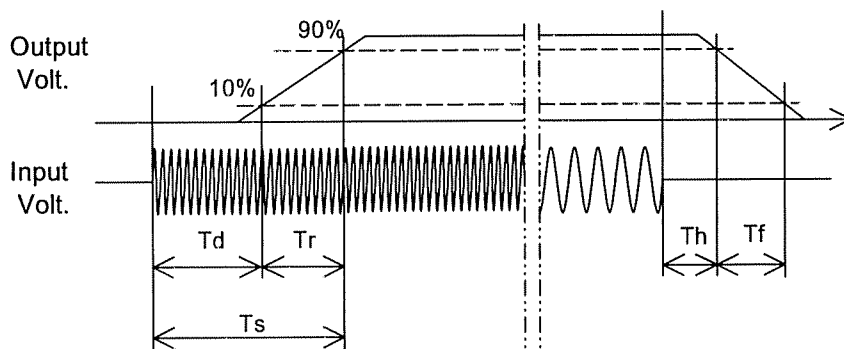
Model	LCA75S-3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3V15A		

1. Graph



2. Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		111.8	3.3	115.1	47.2	10.8
100 %		0.0	117.8	117.8	26.5	9.2





<p>Model LCA75S-3</p> <p>Item Hold-Up Time</p> <p>Object +3V15A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																
<p>1. Graph</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Hold-Up Time [ms]</p> <p>Input Voltage [V]</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>75</td><td>35</td><td>13</td></tr> <tr><td>80</td><td>46</td><td>19</td></tr> <tr><td>85</td><td>59</td><td>25</td></tr> <tr><td>90</td><td>71</td><td>31</td></tr> <tr><td>100</td><td>100</td><td>45</td></tr> <tr><td>110</td><td>132</td><td>61</td></tr> <tr><td>120</td><td>167</td><td>78</td></tr> <tr><td>132</td><td>212</td><td>101</td></tr> <tr><td>140</td><td>245</td><td>118</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	75	35	13	80	46	19	85	59	25	90	71	31	100	100	45	110	132	61	120	167	78	132	212	101	140	245	118
Input Voltage [V]	Hold-Up Time [ms]																																	
	Load 50%	Load 100%																																
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80	46	19																																
85	59	25																																
90	71	31																																
100	100	45																																
110	132	61																																
120	167	78																																
132	212	101																																
140	245	118																																
<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>																																		



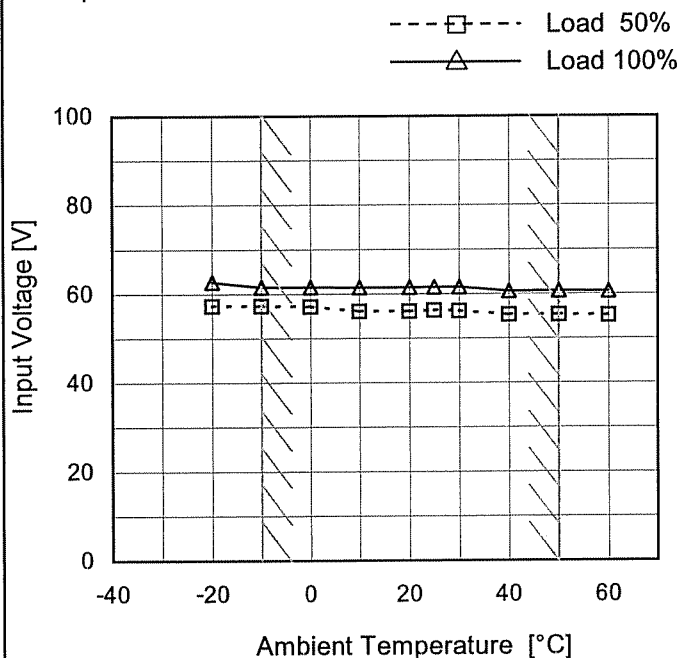
<p>Model LCA75S-3</p> <p>Item Instantaneous Interruption Compensation</p> <p>Object +3V15A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																			
<p>1.Graph</p> <p>—△— Input Volt. 85V</p> <p>- - □ - - Input Volt. 100V</p> <p>- · - ○ - · - Input Volt. 132V</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">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> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>3.0</td><td>150</td><td>246</td><td>496</td></tr> <tr><td>6.0</td><td>76</td><td>129</td><td>267</td></tr> <tr><td>9.0</td><td>48</td><td>84</td><td>178</td></tr> <tr><td>12.0</td><td>35</td><td>60</td><td>131</td></tr> <tr><td>15.0</td><td>25</td><td>46</td><td>102</td></tr> <tr><td>16.5</td><td>21</td><td>41</td><td>92</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. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	-	-	-	3.0	150	246	496	6.0	76	129	267	9.0	48	84	178	12.0	35	60	131	15.0	25	46	102	16.5	21	41	92	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																				
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Model	LCA75S-3
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+3V15A

Testing Circuitry Figure A

1.Graph



2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	58	63
-10	58	62
0	58	62
10	57	62
20	57	62
25	57	62
30	57	62
40	56	61
50	56	61
--	-	-

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



<p>Model LCA75S-3</p> <p>Item Overcurrent Protection</p> <p>Object +3V15A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																							
<p>1.Graph</p> <p> Input Volt. 85V Input Volt. 100V Input Volt. 132V </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. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr><td>3.00</td><td>15.33</td><td>15.24</td><td>15.24</td></tr> <tr><td>2.85</td><td>18.83</td><td>18.83</td><td>18.93</td></tr> <tr><td>2.70</td><td>18.89</td><td>18.90</td><td>18.98</td></tr> <tr><td>2.40</td><td>19.03</td><td>19.04</td><td>19.07</td></tr> <tr><td>2.10</td><td>19.17</td><td>19.15</td><td>19.27</td></tr> <tr><td>1.80</td><td>19.26</td><td>19.33</td><td>19.25</td></tr> <tr><td>1.50</td><td>19.40</td><td>19.35</td><td>19.33</td></tr> <tr><td>1.20</td><td>19.47</td><td>19.45</td><td>19.43</td></tr> <tr><td>0.90</td><td>19.58</td><td>19.56</td><td>19.50</td></tr> <tr><td>0.60</td><td>19.68</td><td>19.64</td><td>19.53</td></tr> <tr><td>0.30</td><td>19.74</td><td>19.65</td><td>19.46</td></tr> <tr><td>0.00</td><td>19.68</td><td>19.53</td><td>19.16</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	3.00	15.33	15.24	15.24	2.85	18.83	18.83	18.93	2.70	18.89	18.90	18.98	2.40	19.03	19.04	19.07	2.10	19.17	19.15	19.27	1.80	19.26	19.33	19.25	1.50	19.40	19.35	19.33	1.20	19.47	19.45	19.43	0.90	19.58	19.56	19.50	0.60	19.68	19.64	19.53	0.30	19.74	19.65	19.46	0.00	19.68	19.53	19.16
Output Voltage [V]	Load Current [A]																																																								
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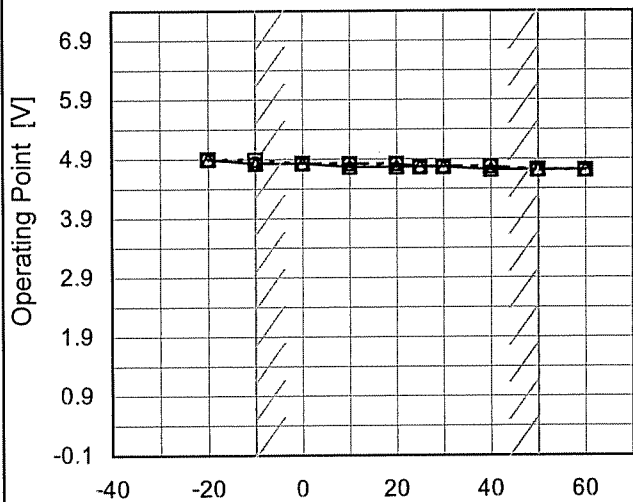


Model	LCA75S-3
Item	Overvoltage Protection
Object	+3V15A

Testing Circuitry Figure A

1. Graph

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



Ambient Temperature [°C]

Load 0%

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

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	4.93	4.93	4.93
-10	4.86	4.92	4.86
0	4.86	4.86	4.86
10	4.80	4.85	4.85
20	4.80	4.85	4.85
25	4.80	4.80	4.80
30	4.80	4.80	4.80
40	4.75	4.80	4.80
50	4.75	4.75	4.74
60	4.75	4.74	4.74
--	-	-	-

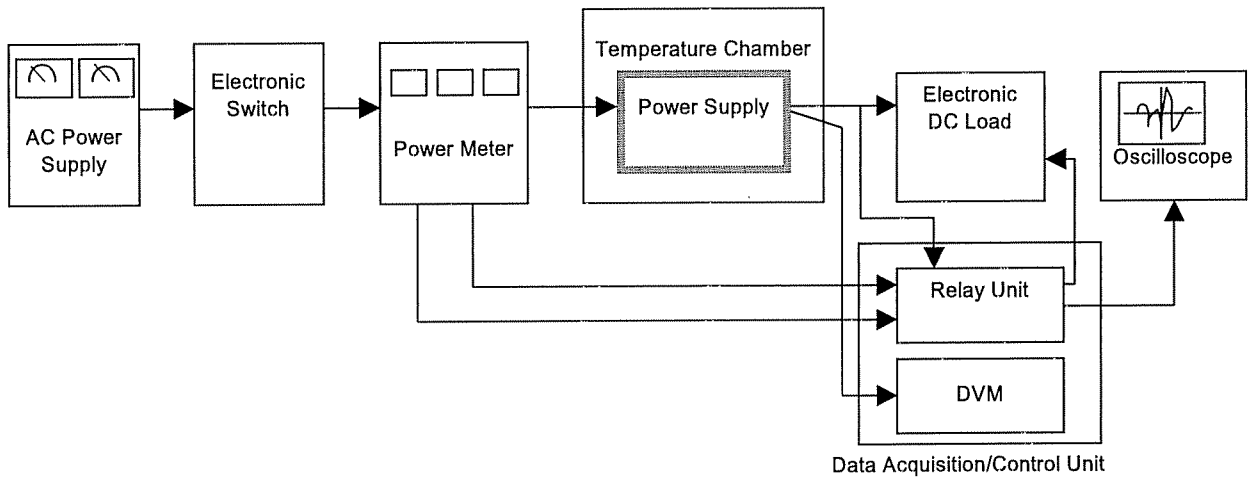


Figure A

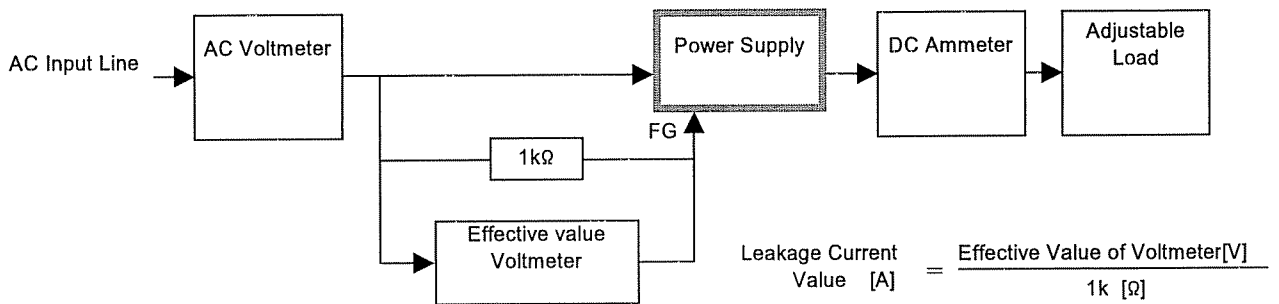


Figure B (DEN-AN)

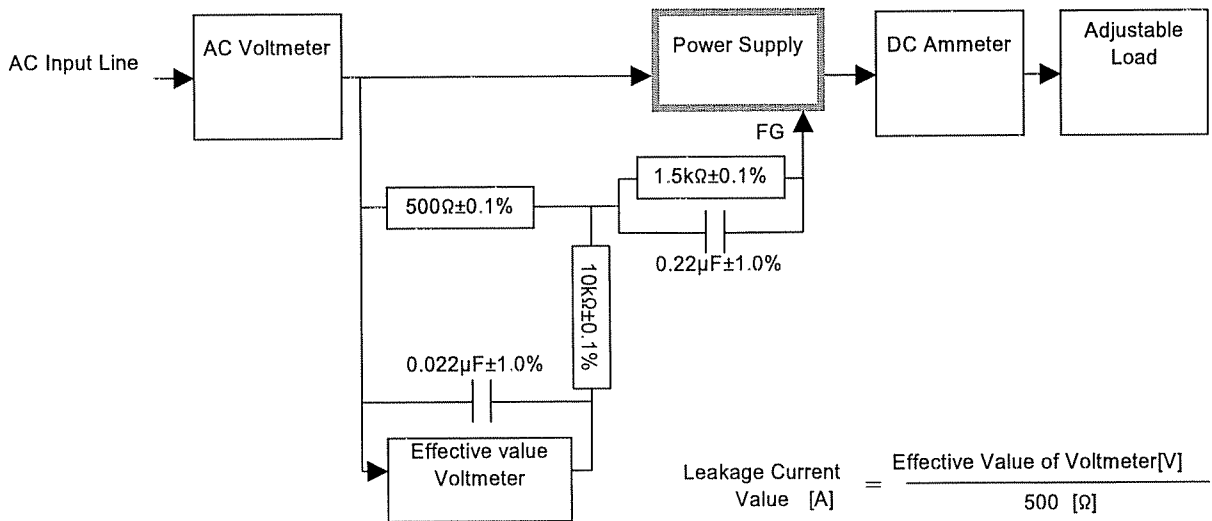


Figure B (IEC60950)