



TEST DATA OF LGA150A-24

Regulated DC Power Supply
April 15 , 2008

Approved by : *Yoshiaki Shimizu*
Yoshiaki Shimizu Design Manager

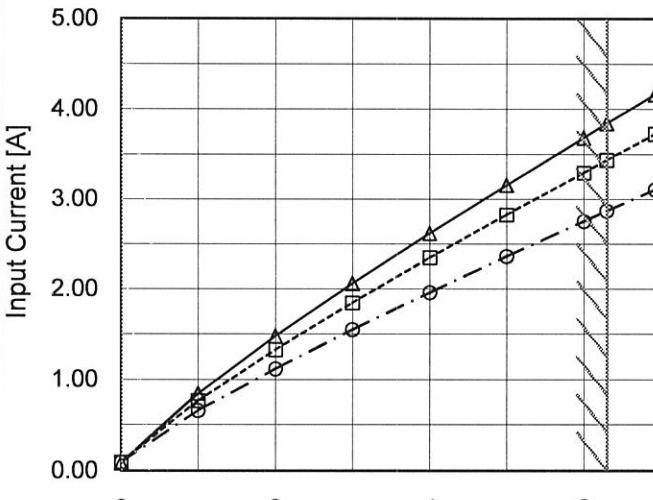
Prepared by : *Kazuo Ishimura*
Kazuo Ishimura Design Engineer

COSEL CO.,LTD.

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			<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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>81.1</td><td>79.8</td><td>76.4</td></tr><tr><td>2.00</td><td>85.7</td><td>85.4</td><td>83.4</td></tr><tr><td>3.00</td><td>87.1</td><td>86.8</td><td>85.9</td></tr><tr><td>4.00</td><td>87.4</td><td>87.6</td><td>87.1</td></tr><tr><td>5.00</td><td>87.5</td><td>87.9</td><td>87.8</td></tr><tr><td>6.00</td><td>87.1</td><td>87.8</td><td>88.1</td></tr><tr><td>6.30</td><td>86.6</td><td>87.7</td><td>88.1</td></tr><tr><td>6.93</td><td>86.4</td><td>87.5</td><td>88.0</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]	0.00	-	-	-	1.00	81.1	79.8	76.4	2.00	85.7	85.4	83.4	3.00	87.1	86.8	85.9	4.00	87.4	87.6	87.1	5.00	87.5	87.9	87.8	6.00	87.1	87.8	88.1	6.30	86.6	87.7	88.1	6.93	86.4	87.5	88.0	--	-	-	-	--	-	-	-	
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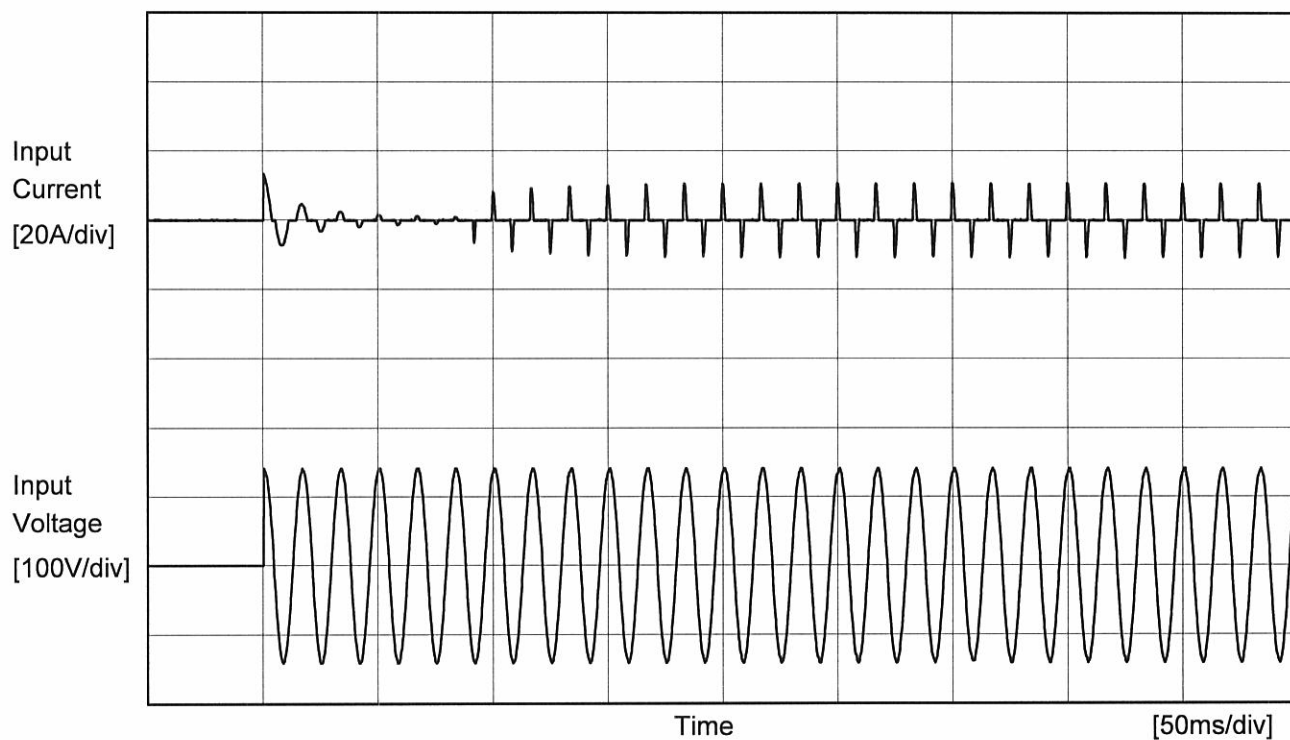
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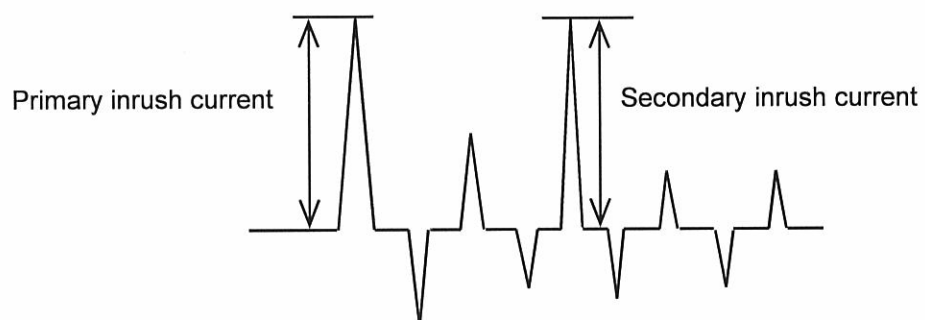
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Model	LGA150A-24	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			



Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current 13.2 A
Secondary inrush current 10.9 A



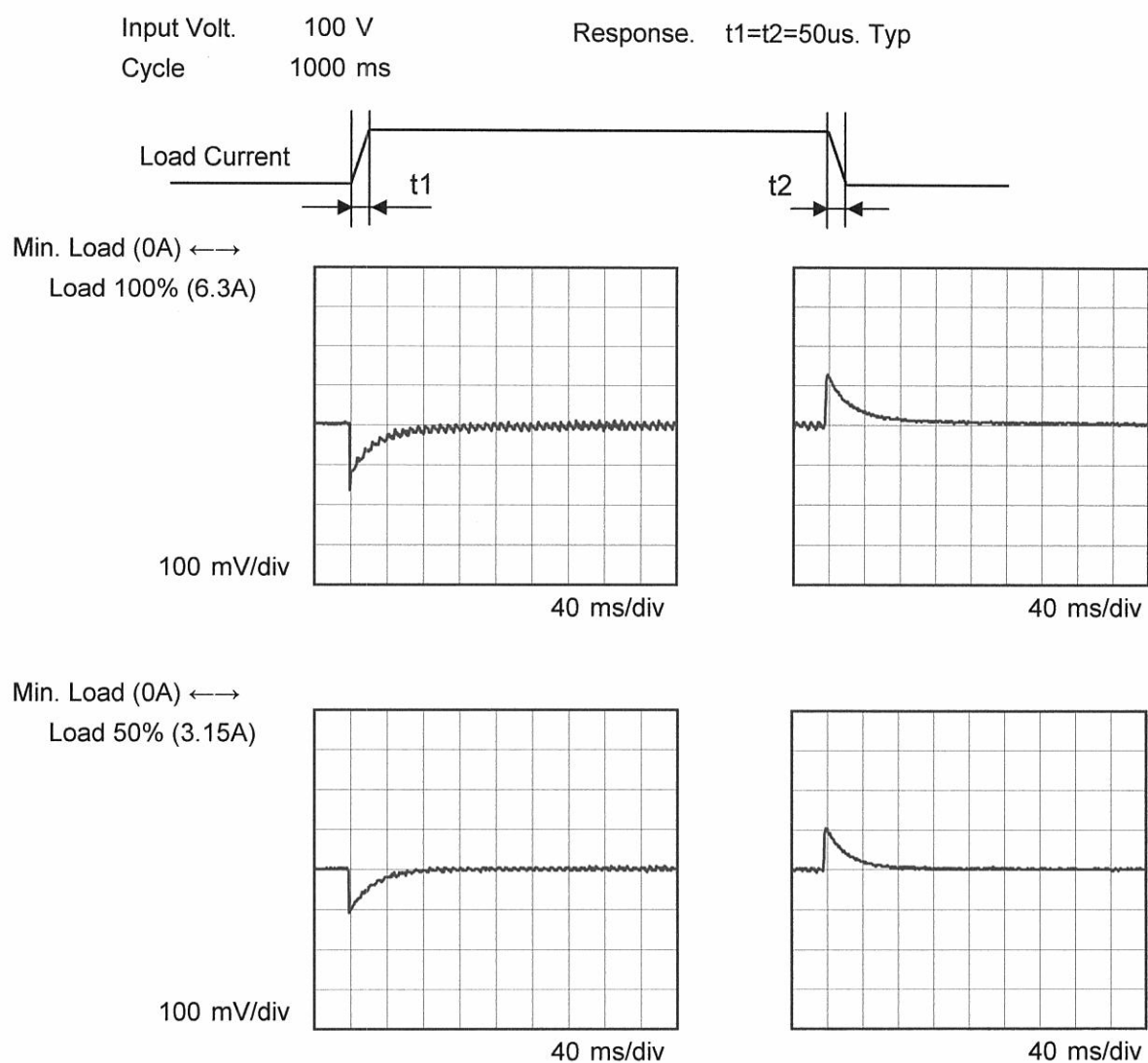
Model	LGA150A-24	Temperature25°C Testing CircuitryFigure A																																	
Item	Line Regulation																																		
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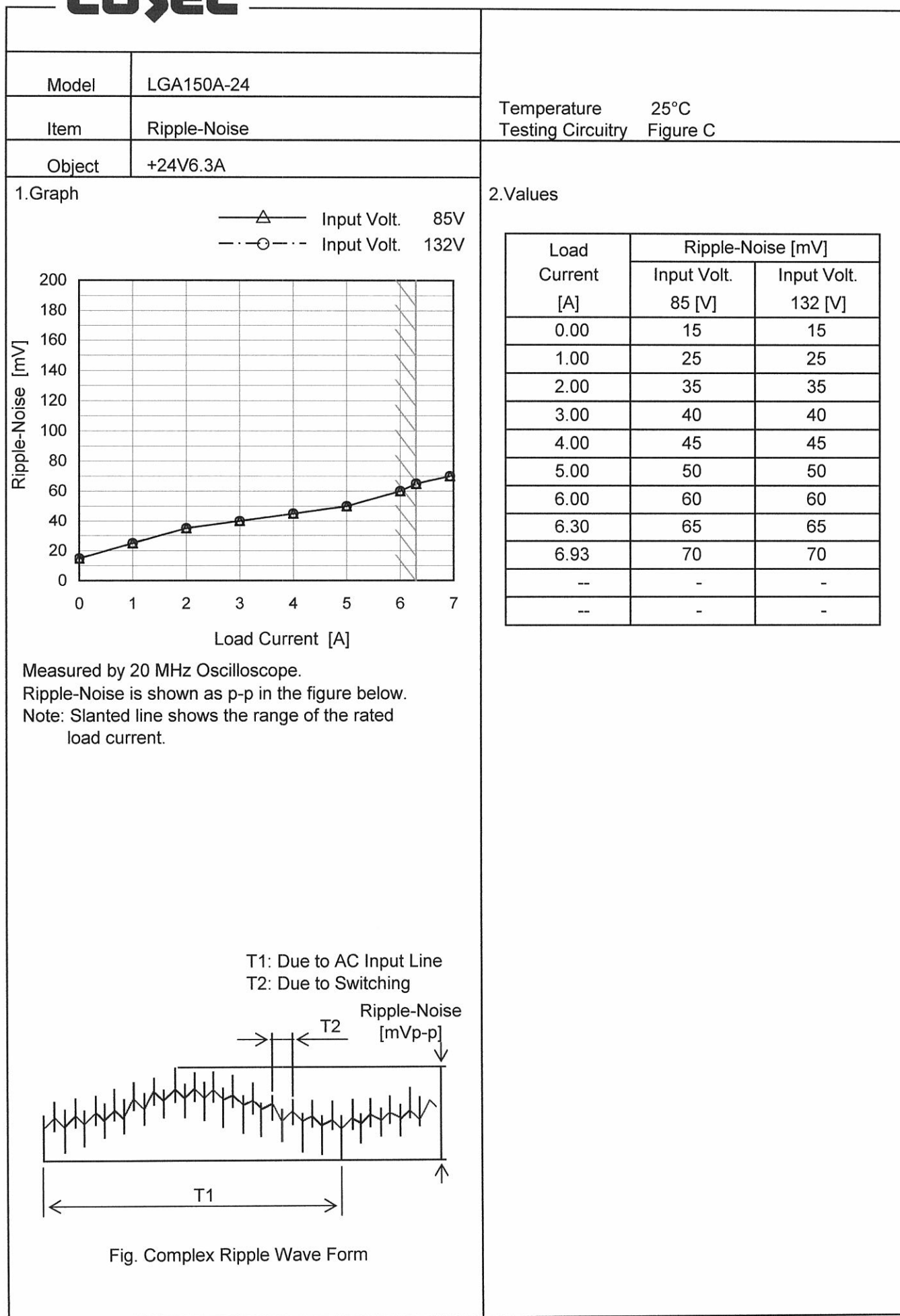
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Model	LGA150A-24	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+24V6.3A		



Model	LGA150A-24																																						
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																				
Object	+24V6.3A	Testing Circuitry	Figure C																																				
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Model		LGA150A-24	Testing Circuitry FigureC
Item		Ripple Voltage (by Ambient Temp.)	
Object		+24V6.3A	
1.Graph		2.Values	
<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><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></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><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></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><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></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><di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Model		LGA150A-24																																																				
Item		Ambient Temperature Drift																																																				
Object		+24V6.3A																																																				
1.Graph		<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><p>Output Voltage [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p><p>Note: Slanted line shows the range of the rated ambient temperature.</p></div>		2.Values																																																		
		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>24.457</td><td>24.457</td><td>24.457</td></tr><tr><td>-10</td><td>24.434</td><td>24.434</td><td>24.434</td></tr><tr><td>0</td><td>24.414</td><td>24.414</td><td>24.414</td></tr><tr><td>10</td><td>24.396</td><td>24.396</td><td>24.395</td></tr><tr><td>20</td><td>24.378</td><td>24.377</td><td>24.377</td></tr><tr><td>25</td><td>24.367</td><td>24.367</td><td>24.368</td></tr><tr><td>30</td><td>24.356</td><td>24.356</td><td>24.356</td></tr><tr><td>40</td><td>24.331</td><td>24.331</td><td>24.331</td></tr><tr><td>50</td><td>24.303</td><td>24.303</td><td>24.303</td></tr><tr><td>60</td><td>24.273</td><td>24.273</td><td>24.273</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	24.457	24.457	24.457	-10	24.434	24.434	24.434	0	24.414	24.414	24.414	10	24.396	24.396	24.395	20	24.378	24.377	24.377	25	24.367	24.367	24.368	30	24.356	24.356	24.356	40	24.331	24.331	24.331	50	24.303	24.303	24.303	60	24.273	24.273	24.273	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
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25	24.367	24.367	24.368																																																			
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40	24.331	24.331	24.331																																																			
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60	24.273	24.273	24.273																																																			
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Model		LGA150A-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+24V6.3A	

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 - 40°C

Input Voltage : 85 - 132V

Load Current : 0 - 6.3A

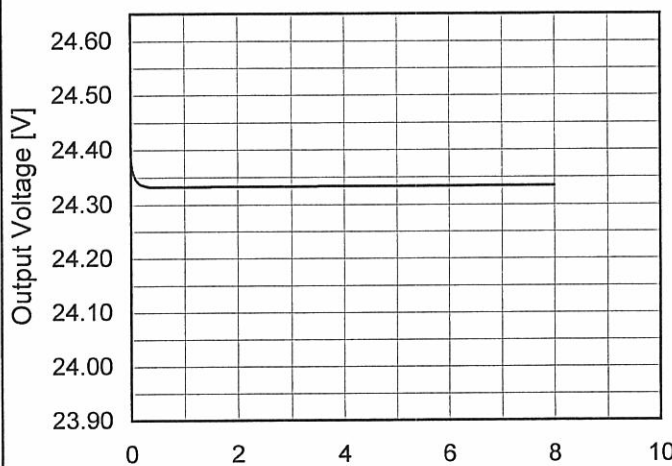
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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	-10	85	0	24.439	±54	±0.2
Minimum Voltage	40	132	6.3	24.331		

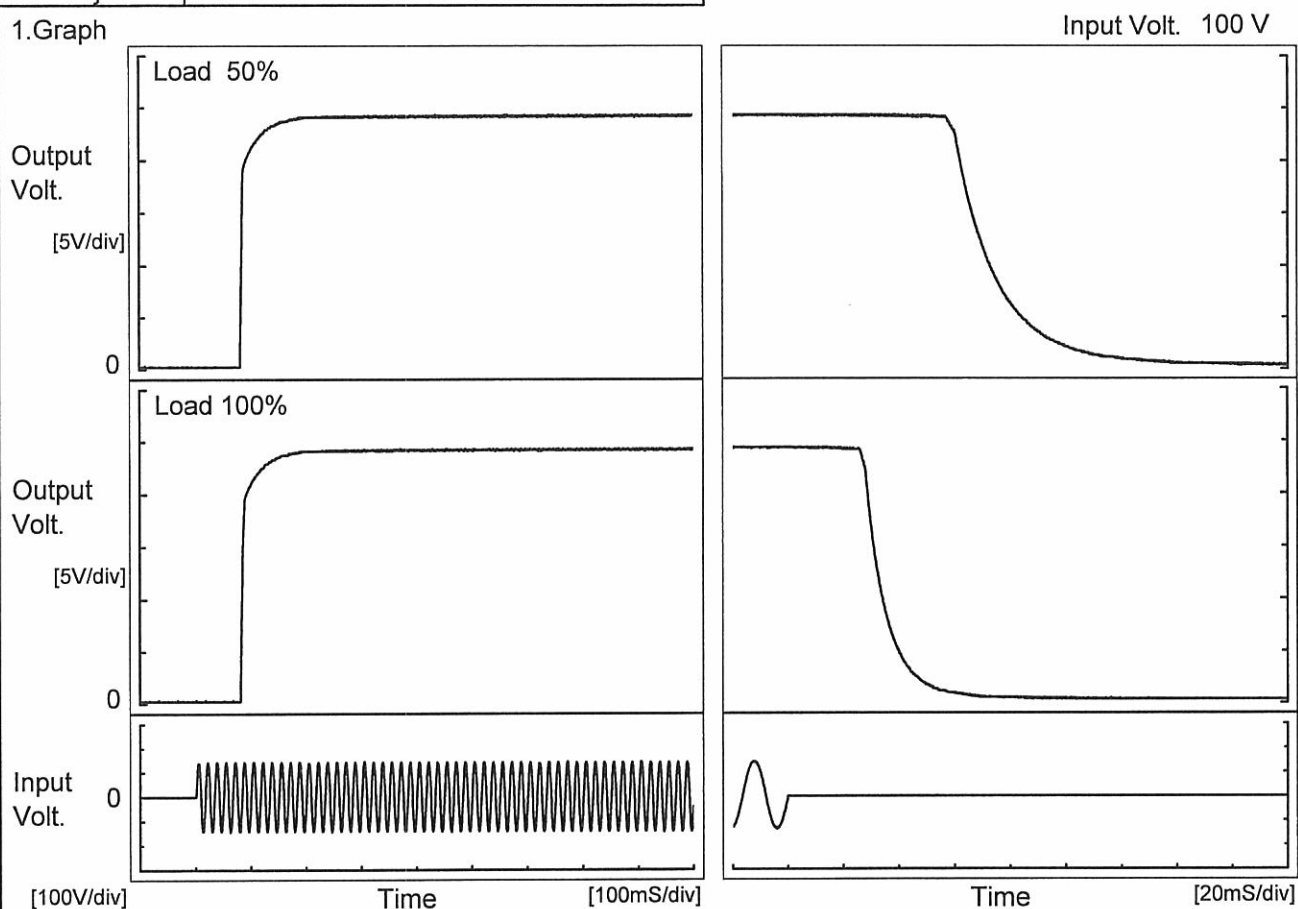
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Model	LGA150A-24	Temperature 25°C Testing Circuitry Figure A																							
Item	Time Lapse Drift																								
Object	+24V6.3A																								
1.Graph		2.Values																							
<div><div><div>Output Voltage [V]</div><div></div><div>Time [H]</div></div><div>Input Volt. 100V Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>24.382</td></tr><tr><td>0.5</td><td>24.333</td></tr><tr><td>1.0</td><td>24.333</td></tr><tr><td>2.0</td><td>24.333</td></tr><tr><td>3.0</td><td>24.333</td></tr><tr><td>4.0</td><td>24.334</td></tr><tr><td>5.0</td><td>24.334</td></tr><tr><td>6.0</td><td>24.334</td></tr><tr><td>7.0</td><td>24.335</td></tr><tr><td>8.0</td><td>24.334</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	24.382	0.5	24.333	1.0	24.333	2.0	24.333	3.0	24.333	4.0	24.334	5.0	24.334	6.0	24.334	7.0	24.335	8.0	24.334
Time since start [H]	Output Voltage [V]																								
0.0	24.382																								
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3.0	24.333																								
4.0	24.334																								
5.0	24.334																								
6.0	24.334																								
7.0	24.335																								
8.0	24.334																								

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Model	LGA150A-24	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+24V6.3A		

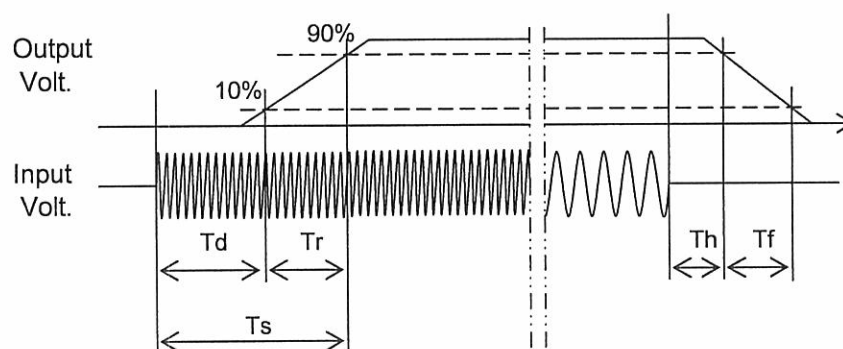
1.Graph

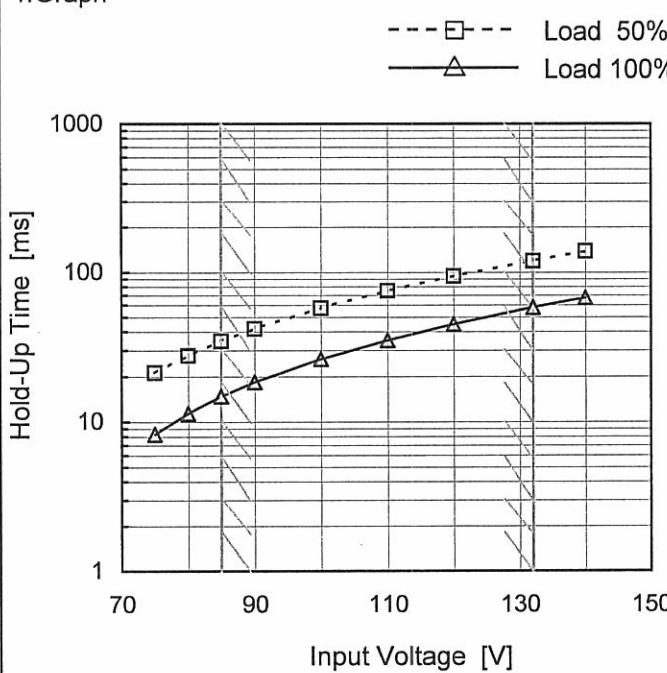


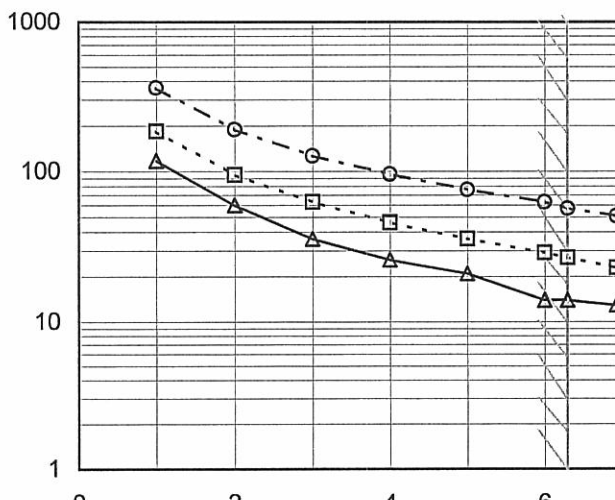
2.Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	82.5	28.5	111.0	60.6	35.4
100 %	82.5	28.0	110.5	28.2	17.7



Model	LGA150A-24																																																																
Item	Hold-Up Time	Temperature	25°C																																																														
		Testing Circuitry	Figure A																																																														
Object	+24V6.3A																																																																
1.Graph		2.Values																																																															
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div>  <p>The graph shows Hold-Up Time [ms] on a logarithmic y-axis (1 to 1000) versus Input Voltage [V] on a linear x-axis (70 to 150). Two data series are plotted: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show an increasing trend. A slanted shaded region indicates the range of the rated input voltage, approximately from 85V to 135V.</p> <table><caption>Data points estimated from the graph</caption><tr><th>Input Voltage [V]</th><th>Hold-Up Time [ms] (Load 50%)</th><th>Hold-Up Time [ms] (Load 100%)</th></tr><tr><td>75</td><td>21</td><td>8</td></tr><tr><td>80</td><td>28</td><td>11</td></tr><tr><td>85</td><td>35</td><td>15</td></tr><tr><td>90</td><td>42</td><td>18</td></tr><tr><td>100</td><td>58</td><td>26</td></tr><tr><td>110</td><td>75</td><td>35</td></tr><tr><td>120</td><td>94</td><td>45</td></tr><tr><td>132</td><td>119</td><td>58</td></tr><tr><td>140</td><td>138</td><td>67</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)	75	21	8	80	28	11	85	35	15	90	42	18	100	58	26	110	75	35	120	94	45	132	119	58	140	138	67	<table><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><tr><td>75</td><td>21</td><td>8</td></tr><tr><td>80</td><td>28</td><td>11</td></tr><tr><td>85</td><td>35</td><td>15</td></tr><tr><td>90</td><td>42</td><td>18</td></tr><tr><td>100</td><td>58</td><td>26</td></tr><tr><td>110</td><td>75</td><td>35</td></tr><tr><td>120</td><td>94</td><td>45</td></tr><tr><td>132</td><td>119</td><td>58</td></tr><tr><td>140</td><td>138</td><td>67</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	75	21	8	80	28	11	85	35	15	90	42	18	100	58	26	110	75	35	120	94	45	132	119	58	140	138	67
Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)																																																															
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Input Voltage [V]	Hold-Up Time [ms]																																																																
	Load 50%	Load 100%																																																															
75	21	8																																																															
80	28	11																																																															
85	35	15																																																															
90	42	18																																																															
100	58	26																																																															
110	75	35																																																															
120	94	45																																																															
132	119	58																																																															
140	138	67																																																															
<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>																																																																	

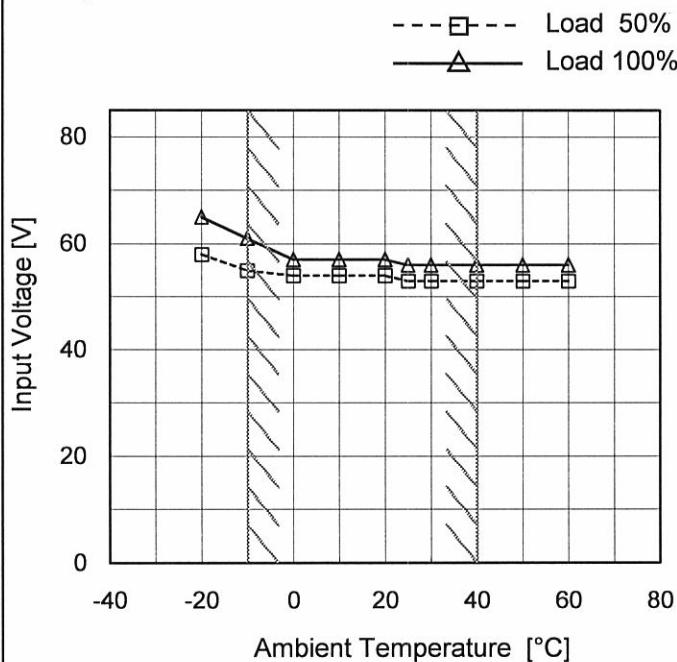
Model		LGA150A-24		Temperature25°C Testing CircuitryFigure A
Item		Instantaneous Interruption Compensation		
Object		+24V6.3A		
1.Graph				
		<div><div><div>—△—</div><div>Input Volt.</div><div>85V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>132V</div></div></div>		
<div>Instantaneous Compensation Time [ms]</div>				
		Load Current [A]		
Note: Slanted line shows the range of the rated load current.				
2.Values				
Load Current [A]		Time [ms]		
		Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00		-	-	-
1.00		118	185	362
2.00		60	95	190
3.00		36	63	127
4.00		26	46	96
5.00		21	36	76
6.00		14	29	63
6.30		14	27	57
6.93		13	23	51
--		-	-	-
--		-	-	-

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BC-10161

Model	LGA150A-24
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+24V6.3A

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	58	65
-10	55	61
0	54	57
10	54	57
20	54	57
25	53	56
30	53	56
40	53	56
50	53	56
60	53	56
--	-	-

Model	LGA150A-24																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+24V6.3A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<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><p>Output Voltage [V]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current.</p></div>		<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>24.0</td><td>6.53</td><td>6.40</td><td>7.00</td></tr><tr><td>22.8</td><td>7.08</td><td>7.02</td><td>7.05</td></tr><tr><td>21.6</td><td>7.10</td><td>7.06</td><td>7.00</td></tr><tr><td>19.2</td><td>7.15</td><td>7.12</td><td>7.16</td></tr><tr><td>16.8</td><td>7.21</td><td>7.20</td><td>7.23</td></tr><tr><td>14.4</td><td>7.31</td><td>7.31</td><td>7.32</td></tr><tr><td>12.0</td><td>7.32</td><td>7.33</td><td>7.39</td></tr><tr><td>9.6</td><td>7.37</td><td>7.37</td><td>7.45</td></tr><tr><td>7.2</td><td>7.43</td><td>7.44</td><td>7.51</td></tr><tr><td>4.8</td><td>7.48</td><td>7.48</td><td>7.51</td></tr><tr><td>2.4</td><td>7.38</td><td>7.30</td><td>7.29</td></tr><tr><td>0.0</td><td>7.38</td><td>7.39</td><td>7.39</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	24.0	6.53	6.40	7.00	22.8	7.08	7.02	7.05	21.6	7.10	7.06	7.00	19.2	7.15	7.12	7.16	16.8	7.21	7.20	7.23	14.4	7.31	7.31	7.32	12.0	7.32	7.33	7.39	9.6	7.37	7.37	7.45	7.2	7.43	7.44	7.51	4.8	7.48	7.48	7.51	2.4	7.38	7.30	7.29	0.0	7.38	7.39	7.39
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Ambient Temperature [°C]	Operating Point [V]																																																						
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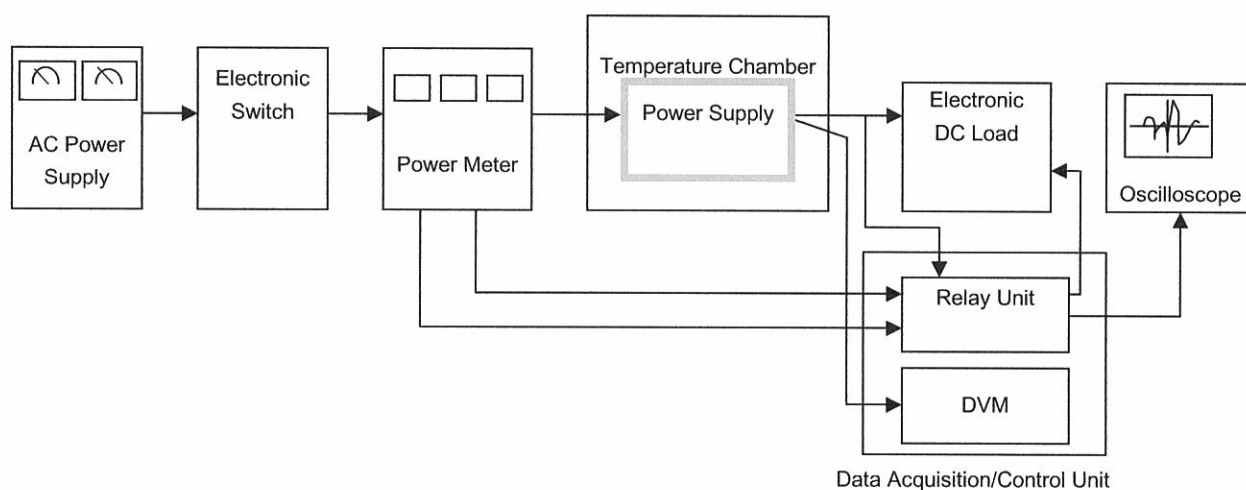


Figure A

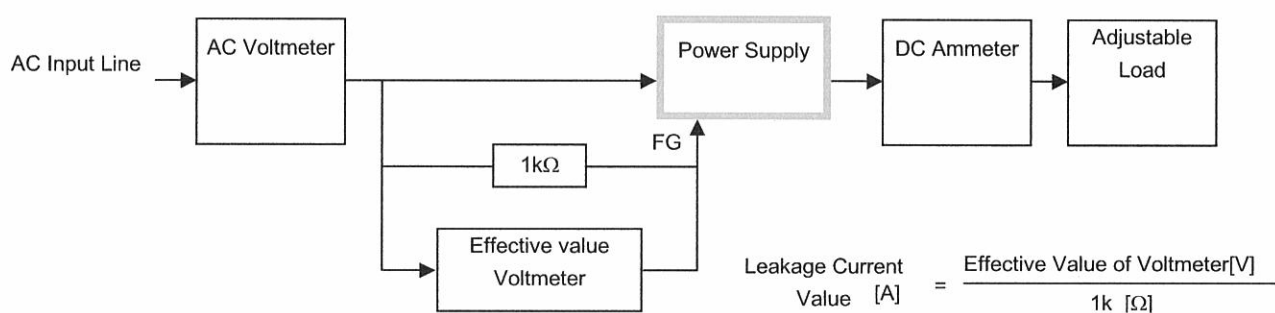


Figure B (DEN-AN)

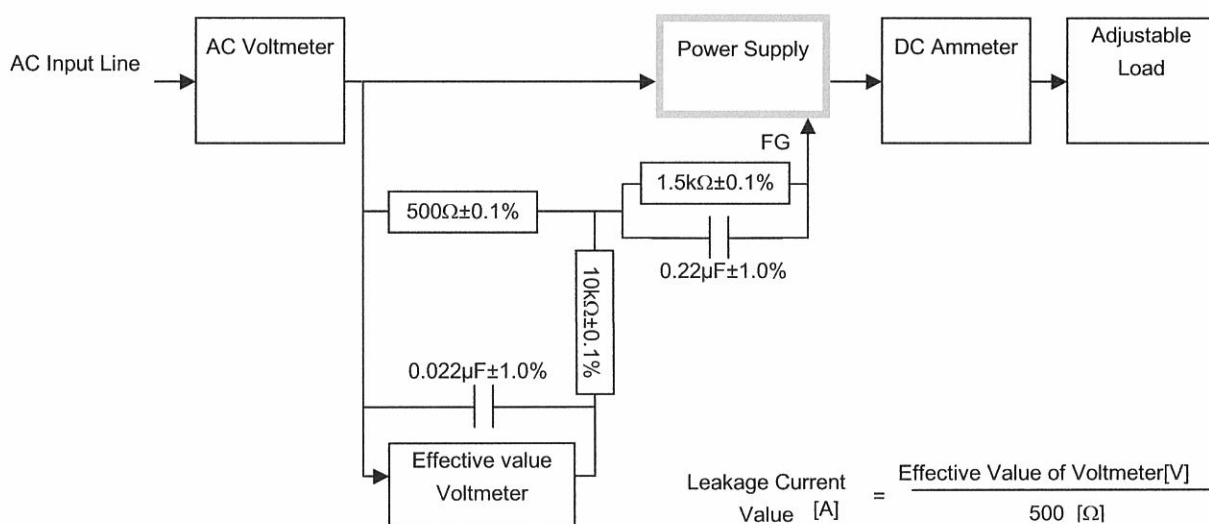


Figure B (IEC60950-1)

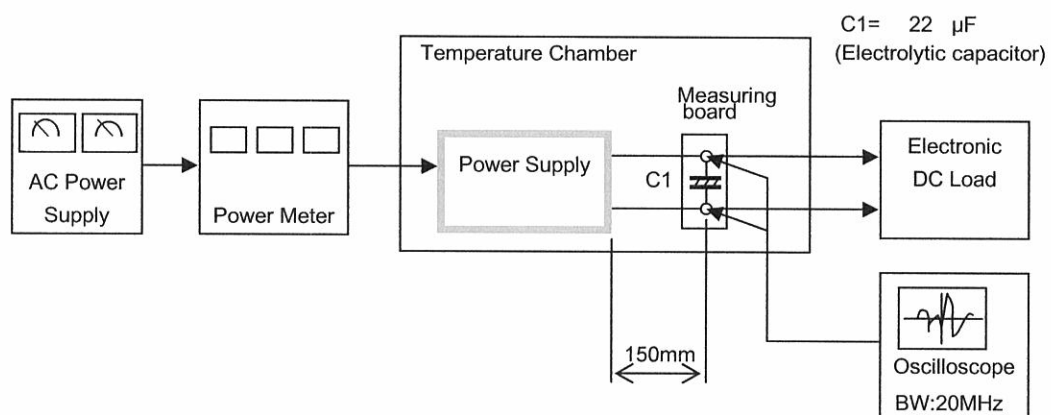


Figure C