



TEST DATA OF LGA150A-15

Regulated DC Power Supply
May 20, 2011

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Hironobu Shimizu Design Engineer

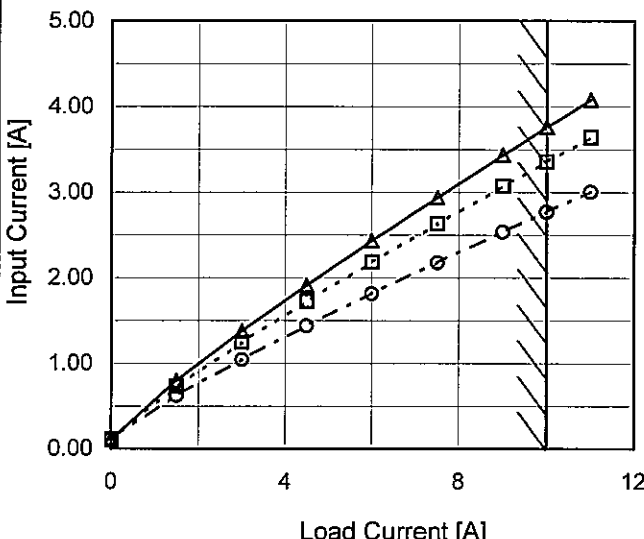
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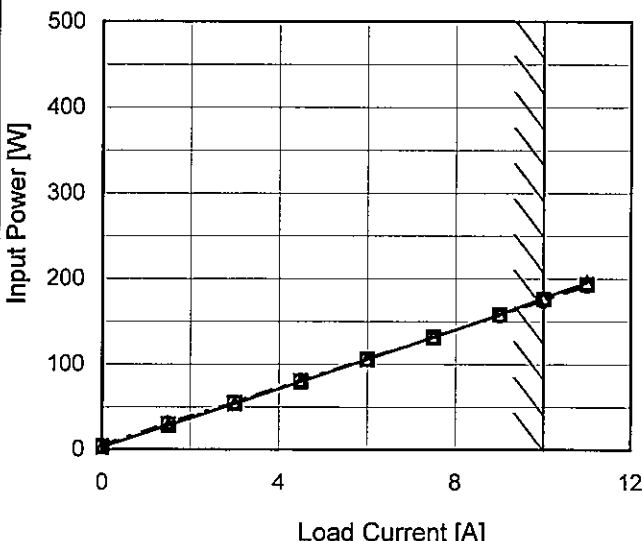


Model		LGA150A-15	
Item		Input Current (by Load Current)	
Object			
1.Graph			
		—△— Input Volt. 85V	
		---□--- Input Volt. 100V	
		-○- Input Volt. 132V	
			
Note: Slanted line shows the range of the rated load current.			

Temperature		25°C	
Testing Circuitry		Figure A	
2.Values			
Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	0.109	0.112	0.119
1.5	0.801	0.729	0.626
3.0	1.378	1.243	1.046
4.5	1.916	1.724	1.440
6.0	2.434	2.183	1.816
7.5	2.940	2.630	2.182
9.0	3.436	3.070	2.540
10.0	3.760	3.356	2.774
11.0	4.080	3.640	3.008
--	-	-	-
--	-	-	-

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Model		LGA150A-15		Temperature 25°C Testing Circuitry Figure A																																																				
Item		Input Power (by Load Current)																																																						
Object																																																								
1.Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>-·-○-·-</div>Input Volt. 132V</div> 		2.Values																																																				
				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>3.1</td><td>3.5</td><td>4.6</td></tr><tr><td>1.5</td><td>28.9</td><td>29.5</td><td>31.1</td></tr><tr><td>3.0</td><td>54.0</td><td>54.4</td><td>55.8</td></tr><tr><td>4.5</td><td>79.8</td><td>80.1</td><td>81.3</td></tr><tr><td>6.0</td><td>105.9</td><td>105.6</td><td>106.4</td></tr><tr><td>7.5</td><td>132.0</td><td>131.4</td><td>131.7</td></tr><tr><td>9.0</td><td>158.7</td><td>157.8</td><td>157.5</td></tr><tr><td>10.0</td><td>178.0</td><td>175.5</td><td>174.6</td></tr><tr><td>11.0</td><td>196.0</td><td>193.2</td><td>192.0</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]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	3.1	3.5	4.6	1.5	28.9	29.5	31.1	3.0	54.0	54.4	55.8	4.5	79.8	80.1	81.3	6.0	105.9	105.6	106.4	7.5	132.0	131.4	131.7	9.0	158.7	157.8	157.5	10.0	178.0	175.5	174.6	11.0	196.0	193.2	192.0	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																							
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																					
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		Note: Slanted line shows the range of the rated load current.																																																						

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Model		LGA150A-15	
Item		Efficiency (by Input Voltage)	
Object			

1.Graph

□

Load 50%

△

Load 100%

Efficiency [%]

90

82

74

66

58

50

42

34

70

90

110

130

150

Input Voltage [V]

Note: Slanted line shows the range of the rated input voltage.

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	85.7	84.6
80	85.9	85.3
85	85.9	85.5
90	85.9	85.8
100	85.9	86.3
110	85.6	86.4
120	85.3	86.6
132	84.8	86.6
140	84.5	86.5

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Model		LGA150A-15		Temperature		25°C																																																		
Item		Efficiency (by Load Current)		Testing Circuitry		Figure A																																																		
Object																																																								
1.Graph		<div><div><div>—△—</div>Input Volt. 85V</div><div><div>---□---</div>Input Volt. 100V</div><div><div>---○---</div>Input Volt. 132V</div></div>		2.Values																																																				
<div><div>Efficiency [%]</div><div>Load Current [A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.5</td><td>80.6</td><td>79.0</td><td>74.9</td></tr><tr><td>3.0</td><td>85.0</td><td>84.4</td><td>82.3</td></tr><tr><td>4.5</td><td>85.9</td><td>85.6</td><td>84.3</td></tr><tr><td>6.0</td><td>86.0</td><td>86.3</td><td>85.7</td></tr><tr><td>7.5</td><td>86.2</td><td>86.6</td><td>86.4</td></tr><tr><td>9.0</td><td>85.9</td><td>86.4</td><td>86.6</td></tr><tr><td>10.0</td><td>85.1</td><td>86.3</td><td>86.7</td></tr><tr><td>11.0</td><td>84.9</td><td>86.2</td><td>86.7</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>				Load Current [A]	Efficiency [%]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	-	-	-	1.5	80.6	79.0	74.9	3.0	85.0	84.4	82.3	4.5	85.9	85.6	84.3	6.0	86.0	86.3	85.7	7.5	86.2	86.6	86.4	9.0	85.9	86.4	86.6	10.0	85.1	86.3	86.7	11.0	84.9	86.2	86.7	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																							
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Note: Slanted line shows the range of the rated load current.																																																								

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Model	LGA150A-15
Item	Power Factor (by Input Voltage)
Object	

1.Graph

□

Load 50%

—

△

—

Load 100%

Input Voltage [V]	Power Factor (Load 50%)	Power Factor (Load 100%)
75	0.518	0.579
80	0.507	0.564
85	0.497	0.553
90	0.488	0.543
100	0.471	0.523
110	0.457	0.507
120	0.445	0.491
132	0.433	0.476
140	0.425	0.467

Note: Slanted line shows the range of the rated input voltage.

Temperature

25°C

Testing Circuitry

Figure A

2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.518	0.579
80	0.507	0.564
85	0.497	0.553
90	0.488	0.543
100	0.471	0.523
110	0.457	0.507
120	0.445	0.491
132	0.433	0.476
140	0.425	0.467

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Model

LGA150A-15

Item

Power Factor (by Load Current)

Object

1.Graph

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Power Factor

Load Current [A]

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

2.Values

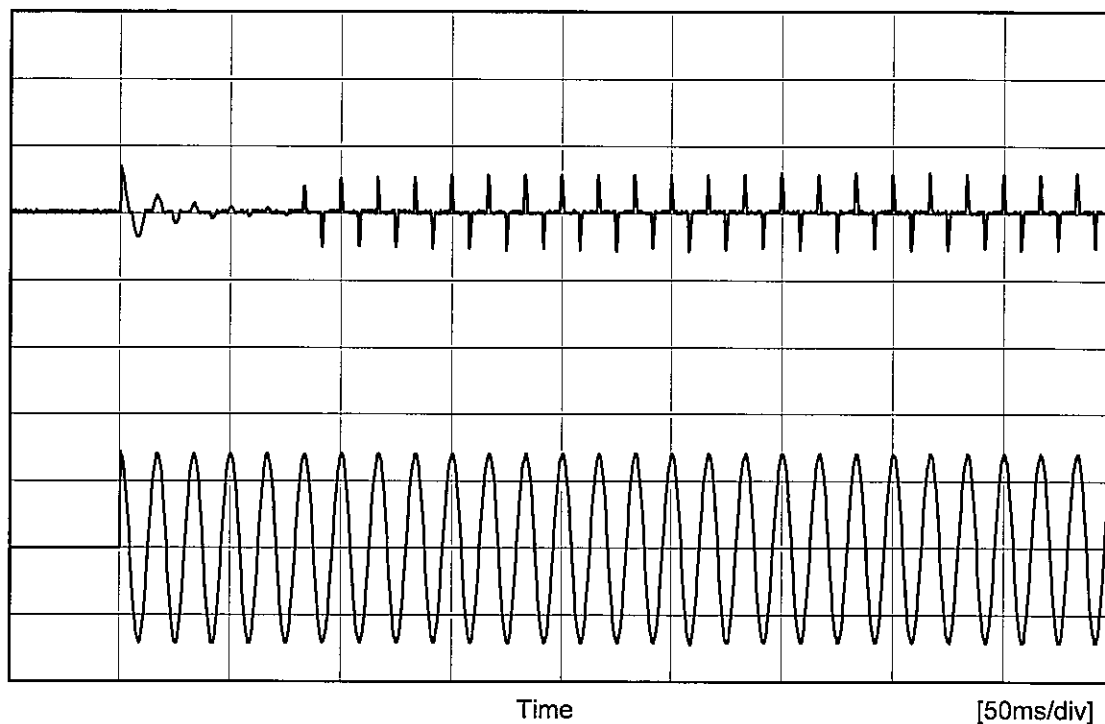
Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	0.331	0.316	0.293
1.5	0.424	0.405	0.376
3.0	0.461	0.437	0.404
4.5	0.490	0.465	0.427
6.0	0.512	0.484	0.444
7.5	0.529	0.500	0.457
9.0	0.544	0.515	0.470
10.0	0.558	0.524	0.477
11.0	0.566	0.531	0.484
--	-	-	-
--	-	-	-

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Model		LGA150A-15	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	

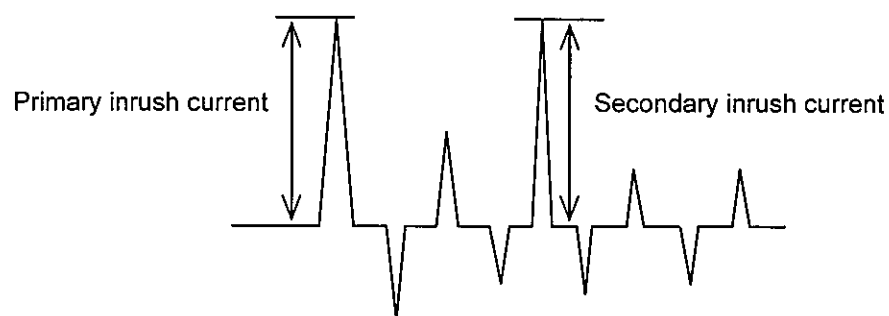
Input
Current
[20A/div]

Input
Voltage
[100V/div]



Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current 13.9 A
Secondary inrush current 11.7 A



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Model	LGA150A-15	Temperature 25°C Testing Circuitry Figure A																																																					
Item	Load Regulation																																																						
Object	+15V10A	2.Values																																																					
1.Graph																																																							
		<div><div>—△—</div><div>Input Volt. 85V</div></div> <div><div>---□---</div><div>Input Volt. 100V</div></div> <div><div>---○---</div><div>Input Volt. 132V</div></div>																																																					
		<table><tr><th rowspan="2">Load Current [A]</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>0.0</td><td>15.127</td><td>15.127</td><td>15.126</td></tr><tr><td>1.5</td><td>15.125</td><td>15.125</td><td>15.124</td></tr><tr><td>3.0</td><td>15.125</td><td>15.124</td><td>15.124</td></tr><tr><td>4.5</td><td>15.125</td><td>15.124</td><td>15.124</td></tr><tr><td>6.0</td><td>15.124</td><td>15.124</td><td>15.123</td></tr><tr><td>7.5</td><td>15.124</td><td>15.123</td><td>15.123</td></tr><tr><td>9.0</td><td>15.124</td><td>15.123</td><td>15.123</td></tr><tr><td>10.0</td><td>15.123</td><td>15.123</td><td>15.123</td></tr><tr><td>11.0</td><td>15.123</td><td>15.123</td><td>15.122</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]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	15.127	15.127	15.126	1.5	15.125	15.125	15.124	3.0	15.125	15.124	15.124	4.5	15.125	15.124	15.124	6.0	15.124	15.124	15.123	7.5	15.124	15.123	15.123	9.0	15.124	15.123	15.123	10.0	15.123	15.123	15.123	11.0	15.123	15.123	15.122	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																						
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--	-	-	-																																																				
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Note: Slanted line shows the range of the rated load current.																																																							

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Model	LGA150A-15	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure C
Object	+15V10A		

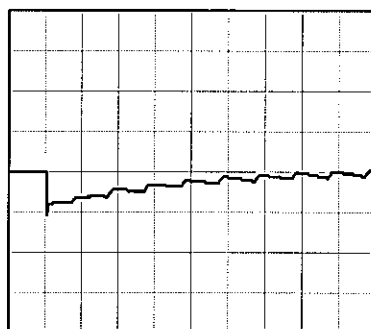
Input Volt. 100 V
Cycle 1000 ms

Response. $t_1=t_2=50\ \mu\text{s}$. Typ

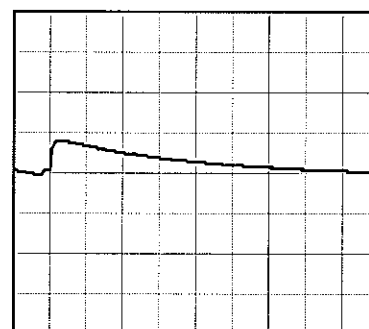


Min. Load (0A) \longleftrightarrow
Load 100% (10A)

100 mV/div



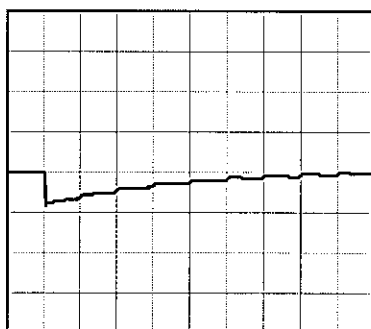
10 ms/div



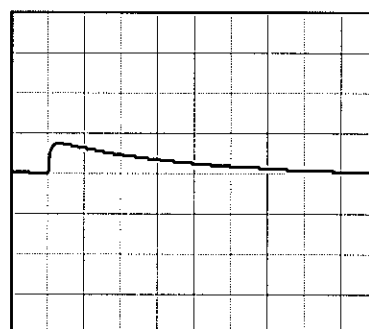
10 ms/div

Min. Load (0A) \longleftrightarrow
Load 50% (5A)

100 mV/div



10 ms/div

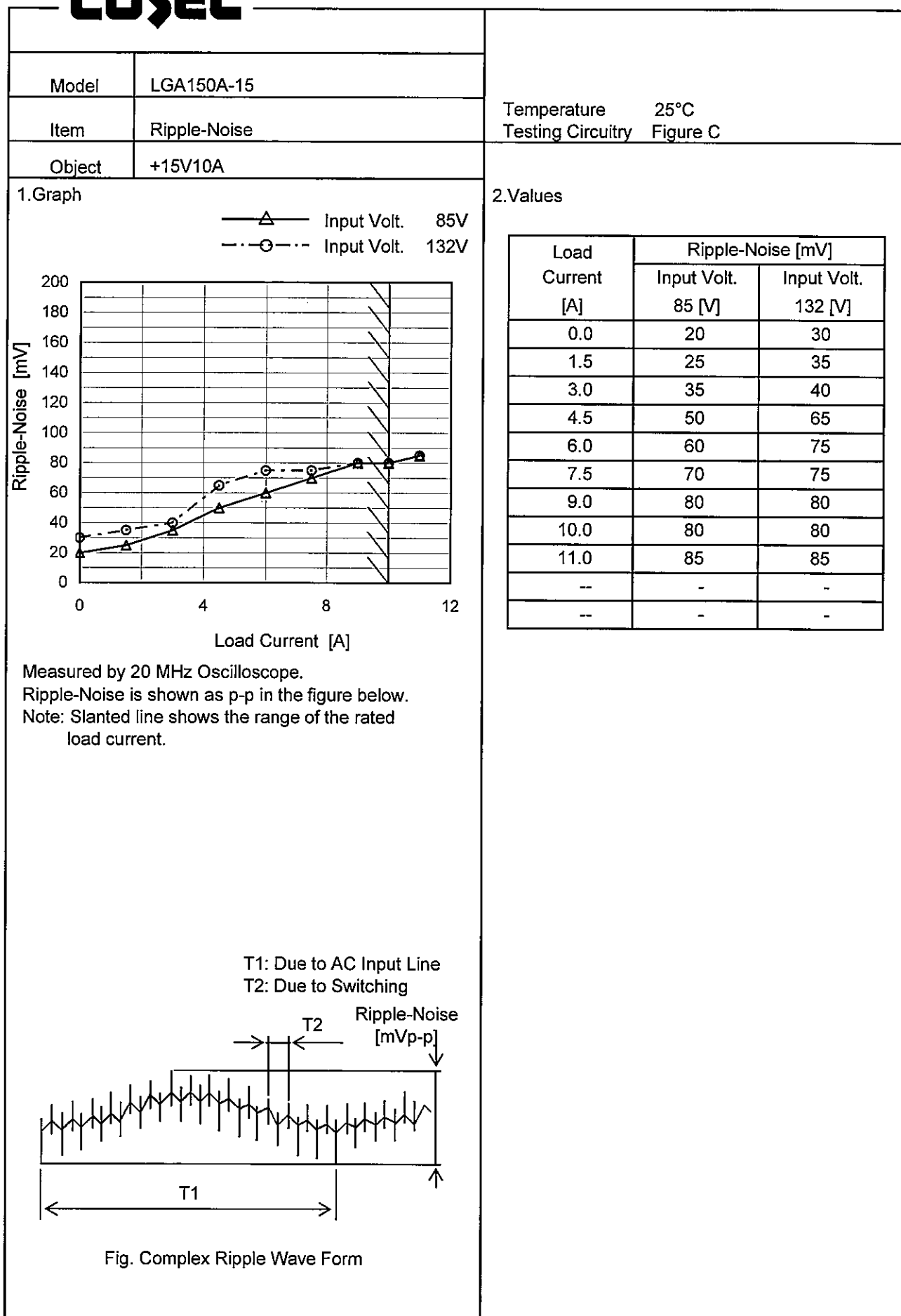


10 ms/div

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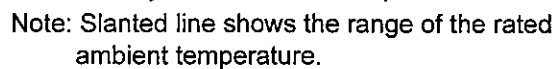
Model	LGA150A-15																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+15V10A	Testing Circuitry	Figure C																																						
1.Graph		2.Values																																							
<div><div><div><div><div></div><div>Input Volt. 85V</div></div><div><div></div><div>Input Volt. 132V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.0</td><td>5</td><td>5</td></tr><tr><td>1.5</td><td>5</td><td>5</td></tr><tr><td>3.0</td><td>5</td><td>5</td></tr><tr><td>4.5</td><td>10</td><td>5</td></tr><tr><td>6.0</td><td>20</td><td>5</td></tr><tr><td>7.5</td><td>20</td><td>10</td></tr><tr><td>9.0</td><td>25</td><td>10</td></tr><tr><td>10.0</td><td>25</td><td>10</td></tr><tr><td>11.0</td><td>25</td><td>10</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	5	5	1.5	5	5	3.0	5	5	4.5	10	5	6.0	20	5	7.5	20	10	9.0	25	10	10.0	25	10	11.0	25	10	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 85 [V]	Input Volt. 132 [V]																																							
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7.5	20	10																																							
9.0	25	10																																							
10.0	25	10																																							
11.0	25	10																																							
--	-	-																																							
--	-	-																																							
<p>Measured by 20 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p>																																									
<div><div><div><div></div><div>T1: Due to AC Input Line</div></div><div><div></div><div>T2: Due to Switching</div></div></div><div><p>Ripple [mVp-p]</p><p>T1</p><p>T2</p></div></div>																																									
Fig. Complex Ripple Wave Form																																									

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Testing Circuitry Figure C

2.Values

[illegible]

Model		LGA150A-15																																																				
Item		Ambient Temperature Drift																																																				
Object		+15V10A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>85V</div><div>100V</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>		<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>15.121</td><td>15.122</td><td>15.122</td></tr><tr><td>-10</td><td>15.122</td><td>15.122</td><td>15.123</td></tr><tr><td>0</td><td>15.122</td><td>15.122</td><td>15.123</td></tr><tr><td>10</td><td>15.122</td><td>15.123</td><td>15.123</td></tr><tr><td>20</td><td>15.123</td><td>15.124</td><td>15.124</td></tr><tr><td>25</td><td>15.124</td><td>15.124</td><td>15.125</td></tr><tr><td>30</td><td>15.124</td><td>15.124</td><td>15.125</td></tr><tr><td>40</td><td>15.122</td><td>15.122</td><td>15.123</td></tr><tr><td>50</td><td>15.118</td><td>15.118</td><td>15.119</td></tr><tr><td>60</td><td>15.112</td><td>15.113</td><td>15.113</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	15.121	15.122	15.122	-10	15.122	15.122	15.123	0	15.122	15.122	15.123	10	15.122	15.123	15.123	20	15.123	15.124	15.124	25	15.124	15.124	15.125	30	15.124	15.124	15.125	40	15.122	15.122	15.123	50	15.118	15.118	15.119	60	15.112	15.113	15.113	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
-20	15.121	15.122	15.122																																																			
-10	15.122	15.122	15.123																																																			
0	15.122	15.122	15.123																																																			
10	15.122	15.123	15.123																																																			
20	15.123	15.124	15.124																																																			
25	15.124	15.124	15.125																																																			
30	15.124	15.124	15.125																																																			
40	15.122	15.122	15.123																																																			
50	15.118	15.118	15.119																																																			
60	15.112	15.113	15.113																																																			
--	-	-	-																																																			

~ 15 ~

BC-10550

COSEL

		Testing Circuitry Figure A
Model	LGA150A-15	
Item	Output Voltage Accuracy	
Object	+15V10A	

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 - 10A

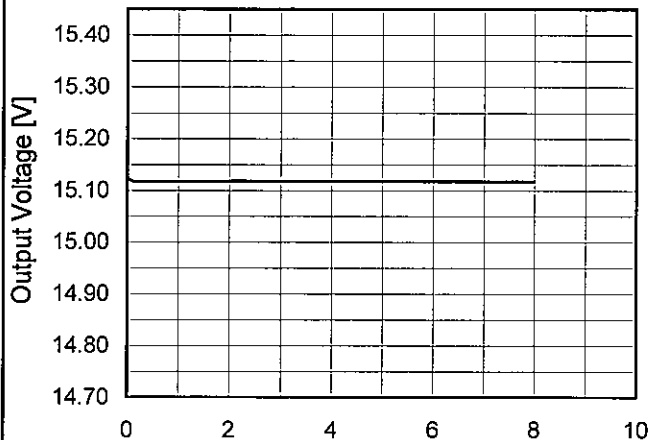
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

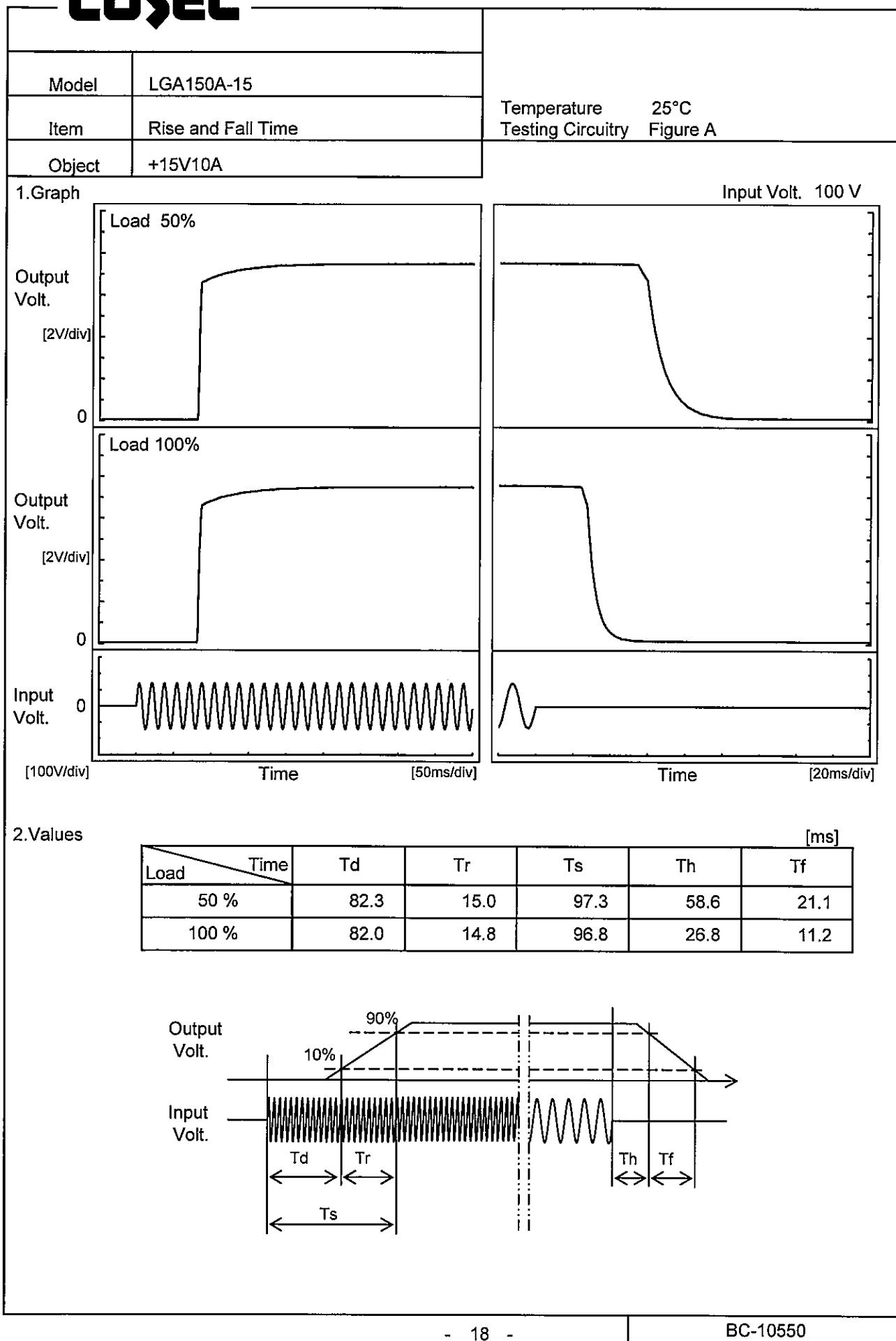
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	30	85	0	15.128	±3	±0.1
Minimum Voltage	40	85	10	15.122		

COSEL

Model	LGA150A-15																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+15V10A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.127</td></tr><tr><td>0.5</td><td>15.117</td></tr><tr><td>1.0</td><td>15.117</td></tr><tr><td>2.0</td><td>15.118</td></tr><tr><td>3.0</td><td>15.118</td></tr><tr><td>4.0</td><td>15.119</td></tr><tr><td>5.0</td><td>15.118</td></tr><tr><td>6.0</td><td>15.118</td></tr><tr><td>7.0</td><td>15.118</td></tr><tr><td>8.0</td><td>15.118</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.127	0.5	15.117	1.0	15.117	2.0	15.118	3.0	15.118	4.0	15.119	5.0	15.118	6.0	15.118	7.0	15.118	8.0	15.118
Time since start [H]	Output Voltage [V]																								
0.0	15.127																								
0.5	15.117																								
1.0	15.117																								
2.0	15.118																								
3.0	15.118																								
4.0	15.119																								
5.0	15.118																								
6.0	15.118																								
7.0	15.118																								
8.0	15.118																								

COSEL



COSEL

COSEL

Model	LGA150A-15																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+15V10A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>85V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>-○-</div><div>Input Volt.</div><div>132V</div></div></div> <div>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.5</td><td>122</td><td>186</td><td>372</td></tr><tr><td>3.0</td><td>63</td><td>96</td><td>201</td></tr><tr><td>4.5</td><td>38</td><td>65</td><td>135</td></tr><tr><td>6.0</td><td>30</td><td>46</td><td>100</td></tr><tr><td>7.5</td><td>21</td><td>35</td><td>81</td></tr><tr><td>9.0</td><td>18</td><td>31</td><td>65</td></tr><tr><td>10.0</td><td>14</td><td>27</td><td>58</td></tr><tr><td>11.0</td><td>13</td><td>22</td><td>53</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Time [ms]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	-	-	-	1.5	122	186	372	3.0	63	96	201	4.5	38	65	135	6.0	30	46	100	7.5	21	35	81	9.0	18	31	65	10.0	14	27	58	11.0	13	22	53	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
0.0	-	-	-																																																			
1.5	122	186	372																																																			
3.0	63	96	201																																																			
4.5	38	65	135																																																			
6.0	30	46	100																																																			
7.5	21	35	81																																																			
9.0	18	31	65																																																			
10.0	14	27	58																																																			
11.0	13	22	53																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note: Slanted line shows the range of the rated load current.																																																						

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BC-10550

COSEL

Model

LGA150A-15

Item

Minimum Input Voltage
for Regulated Output Voltage

Object

+15V10A

1.Graph

□

Load 50%

—

△

—

Load 100%

Input Voltage [V]

80

60

40

20

0

-40

-20

0

20

40

60

80

Ambient Temperature [°C]

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

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	58	65
-10	58	65
0	57	65
10	57	64
20	57	64
25	57	64
30	57	64
40	56	64
50	56	64
60	56	64
---	-	-

COSEL

Model		LGA150A-15	
Item		Overcurrent Protection	
Object		+15V10A	

1.Graph

Input Volt. 85V

Input Volt. 100V

Input Volt. 132V

Output Voltage [V]

</

COSEL

LOREL

Model	LGA150A-15
Item	Overvoltage Protection
Object	+15V10A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85V
 ---□--- Input Volt. 132V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

Ambient Temperature [°C]	Operating Point [V] (85V)	Operating Point [V] (132V)
-20	18.73	18.73
-10	18.85	18.85
0	19.02	19.02
10	19.26	19.26
20	19.37	19.37
25	19.43	19.43
30	19.55	19.55
40	19.67	19.67
50	19.84	19.84
60	19.96	19.96

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. 132[V]
-20	18.73	18.73
-10	18.85	18.85
0	19.02	19.02
10	19.26	19.26
20	19.37	19.37
25	19.43	19.43
30	19.55	19.55
40	19.67	19.67
50	19.84	19.84
60	19.96	19.96
--	-	-

COSEL

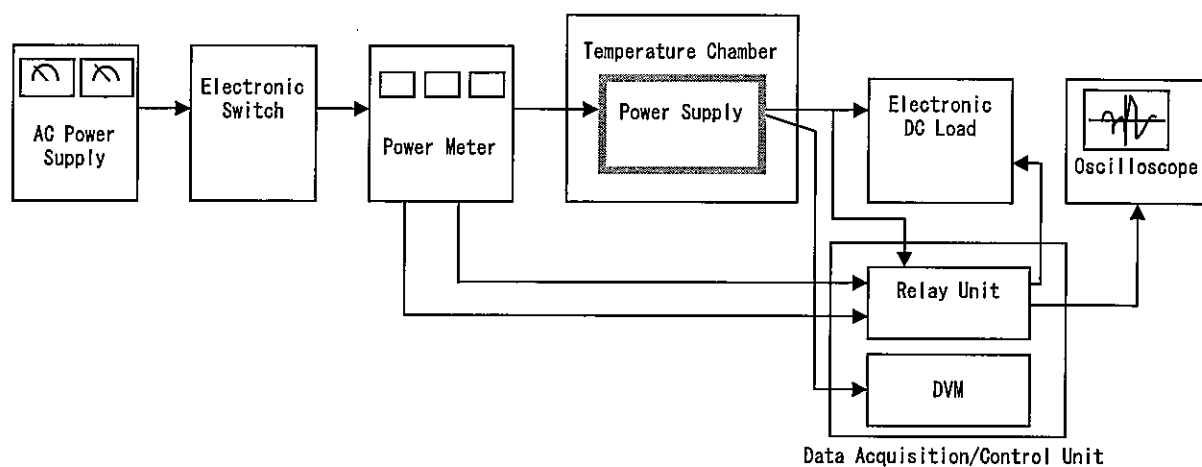


Figure A

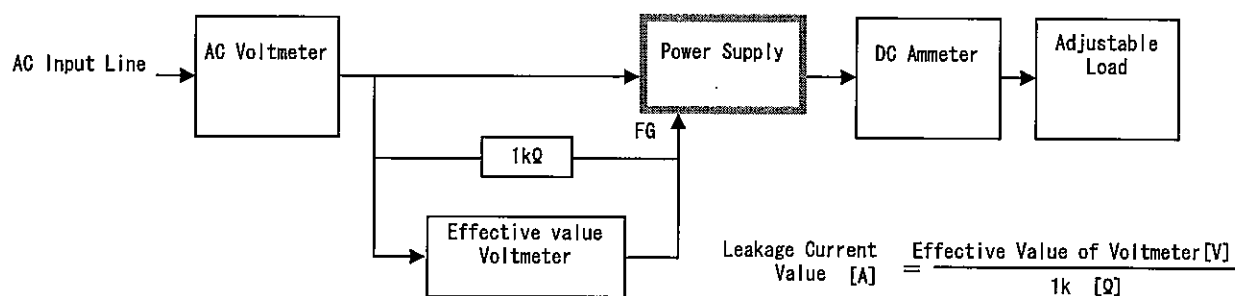


Figure B (DEN-AN)

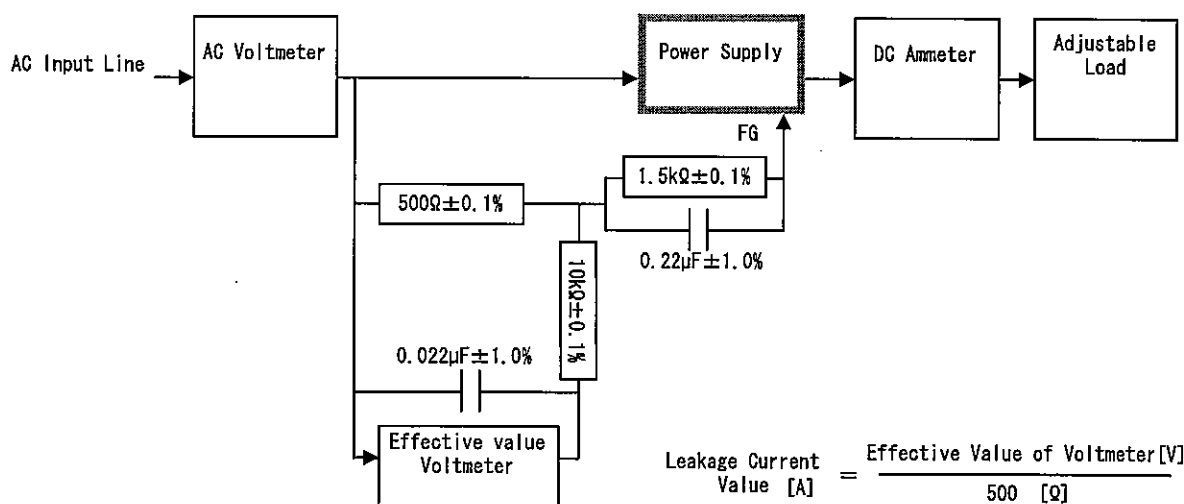


Figure B (IEC60950-1)

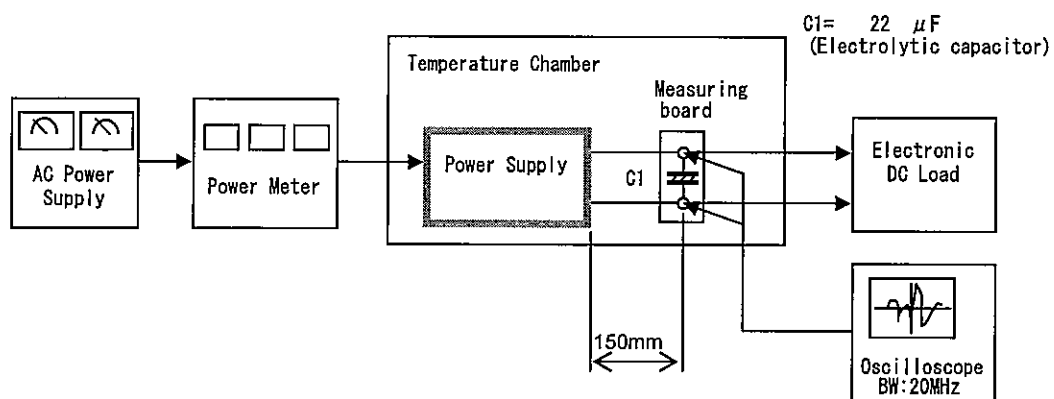


Figure C