



# TEST DATA OF LGA75A-12

Regulated DC Power Supply  
April 4, 2008

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Yoshiaki Shimizu Design Manager

Prepared by : Yousuke Murata  
Yousuke Murata Design Engineer

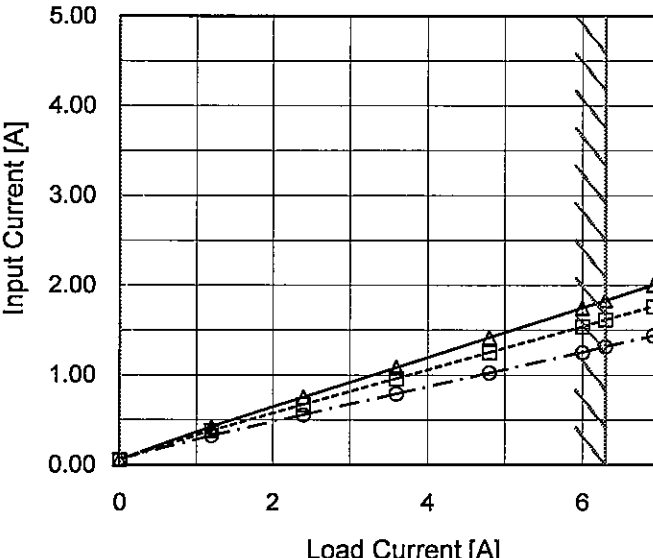
**COSEL CO.,LTD.**

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Model		LGA75A-12		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Input Current (by Load Current)																																																						
Object		_____																																																						
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></div>  <p>Note: Slanted line shows the range of the rated load current.</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input 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>0.00</td><td>0.058</td><td>0.059</td><td>0.059</td></tr><tr><td>1.20</td><td>0.422</td><td>0.380</td><td>0.324</td></tr><tr><td>2.40</td><td>0.749</td><td>0.667</td><td>0.555</td></tr><tr><td>3.60</td><td>1.082</td><td>0.959</td><td>0.789</td></tr><tr><td>4.80</td><td>1.413</td><td>1.252</td><td>1.024</td></tr><tr><td>6.00</td><td>1.744</td><td>1.535</td><td>1.252</td></tr><tr><td>6.30</td><td>1.827</td><td>1.613</td><td>1.317</td></tr><tr><td>6.93</td><td>2.000</td><td>1.764</td><td>1.436</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></table>		Load Current [A]	Input Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	0.058	0.059	0.059	1.20	0.422	0.380	0.324	2.40	0.749	0.667	0.555	3.60	1.082	0.959	0.789	4.80	1.413	1.252	1.024	6.00	1.744	1.535	1.252	6.30	1.827	1.613	1.317	6.93	2.000	1.764	1.436	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																						

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Model		LGA75A-12	
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	82.3	81.9
80	82.7	82.5
85	82.9	82.9
90	83.0	83.1
100	82.9	83.4
110	82.5	83.6
120	82.2	83.6
132	81.6	83.5
140	81.2	83.3

# COSEL

Model		LGA75A-12		Temperature 25°C																																																		
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																		
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<div><div>Efficiency [%]</div><div><div><div>90</div><div>82</div><div>74</div><div>66</div><div>58</div><div>50</div><div>42</div><div>34</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div><div>Load Current [A]</div></div></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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.20</td><td>78.0</td><td>77.5</td><td>73.6</td></tr><tr><td>2.40</td><td>82.0</td><td>81.9</td><td>80.0</td></tr><tr><td>3.60</td><td>83.0</td><td>83.2</td><td>82.2</td></tr><tr><td>4.80</td><td>83.2</td><td>83.5</td><td>83.1</td></tr><tr><td>6.00</td><td>83.0</td><td>83.3</td><td>83.0</td></tr><tr><td>6.30</td><td>82.9</td><td>83.4</td><td>83.4</td></tr><tr><td>6.93</td><td>82.7</td><td>83.2</td><td>83.3</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></table>		Load Current [A]	Efficiency [%]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	-	-	-	1.20	78.0	77.5	73.6	2.40	82.0	81.9	80.0	3.60	83.0	83.2	82.2	4.80	83.2	83.5	83.1	6.00	83.0	83.3	83.0	6.30	82.9	83.4	83.4	6.93	82.7	83.2	83.3	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																						

# COSEL

Model		LGA75A-12	
Item		Power Factor (by Input Voltage)	
Object			

1.Graph

---□--- Load 50%

—△— Load 100%

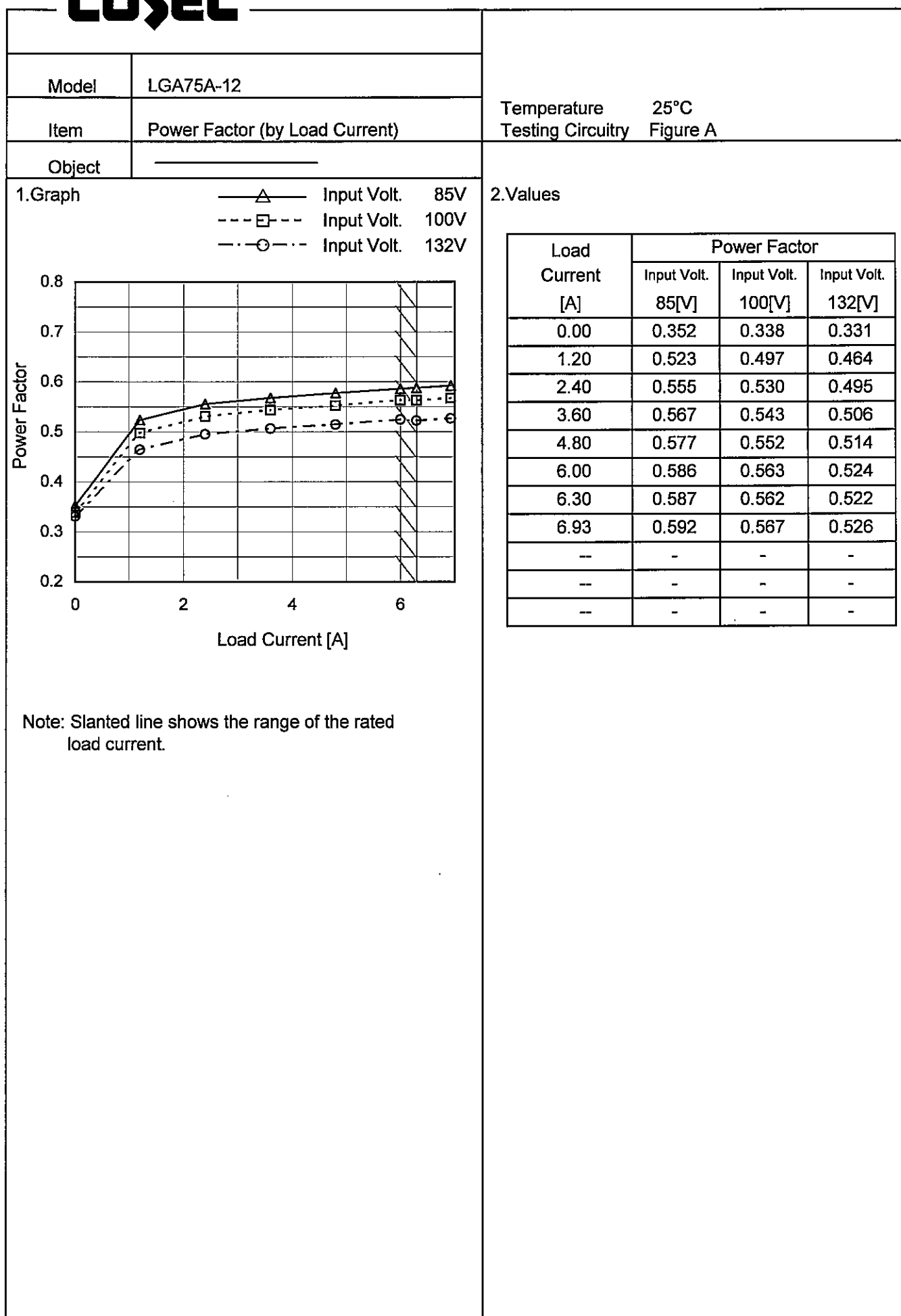
Input Voltage [V]	Load 50%	Load 100%
75	0.577	0.611
80	0.567	0.598
85	0.559	0.587
90	0.551	0.578
100	0.537	0.562
110	0.525	0.547
120	0.513	0.535
132	0.502	0.522
140	0.495	0.514

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

2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.577	0.611
80	0.567	0.598
85	0.559	0.587
90	0.551	0.578
100	0.537	0.562
110	0.525	0.547
120	0.513	0.535
132	0.502	0.522
140	0.495	0.514

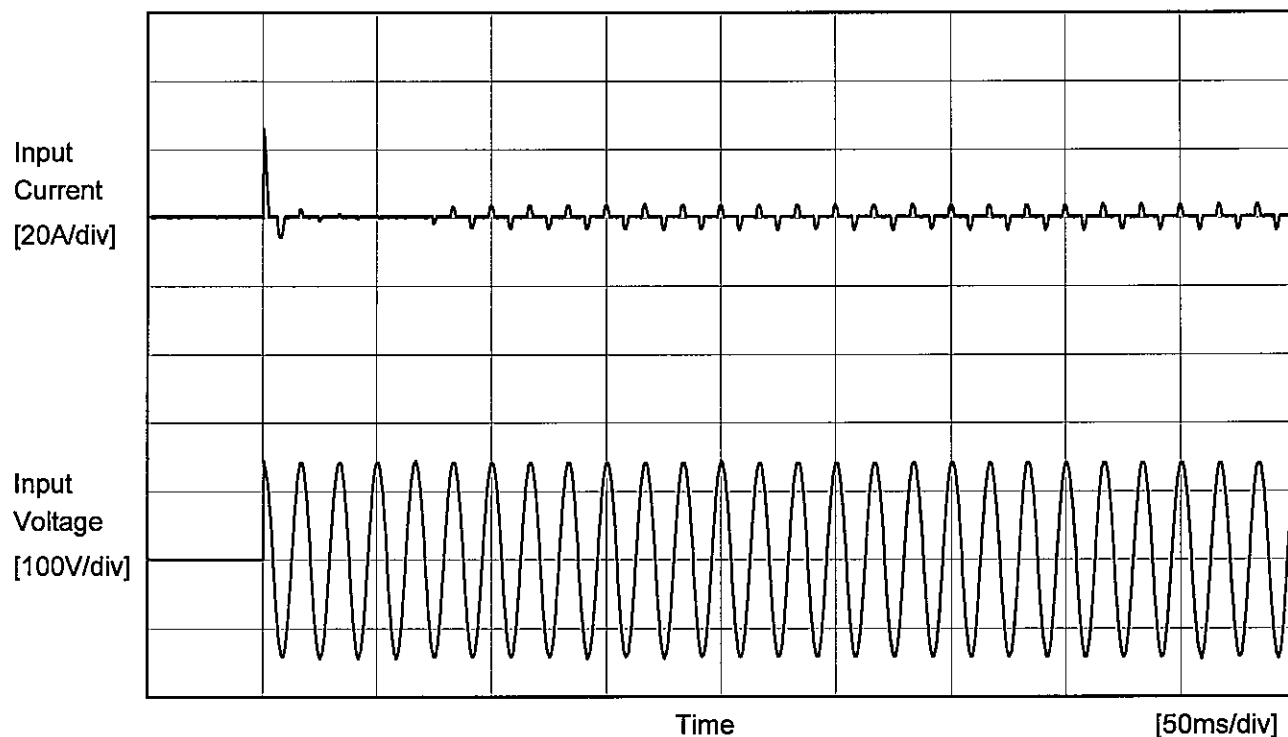
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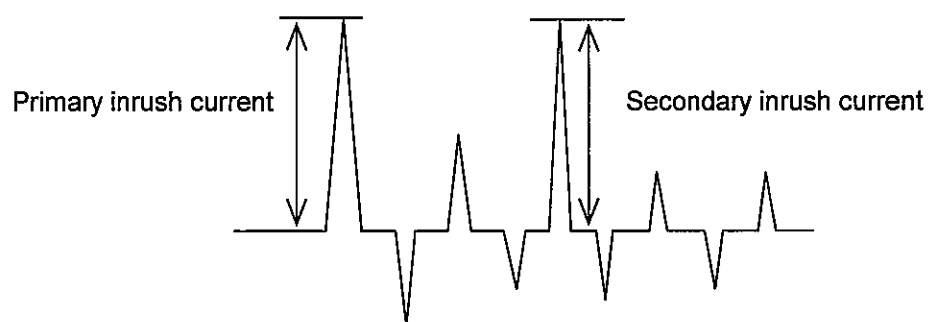
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Model	LGA75A-12	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		



Input Voltage      100 V  
Frequency          60 Hz  
Load                100 %

Primary inrush current    25.7 A  
Secondary inrush current   3.9 A



**COSEL**

		Temperature 25°C Testing Circuitry Figure B
Model	LGA75A-12	
Item	Leakage Current	
Object	_____	

## 1.Results

Standards	Leakage Current [mA]		
	Input Volt. 100 [V]	Input Volt. 120 [V]	Input Volt. 132 [V]
(A)DEN-AN	0.08	0.10	0.12
(B)IEC60950	0.09	0.11	0.12

frequency 60Hz

Standards	Leakage Current [mA]		
	Input Volt. [V]	Input Volt. [V]	Input Volt. [V]
(B)IEC60950	-	-	-

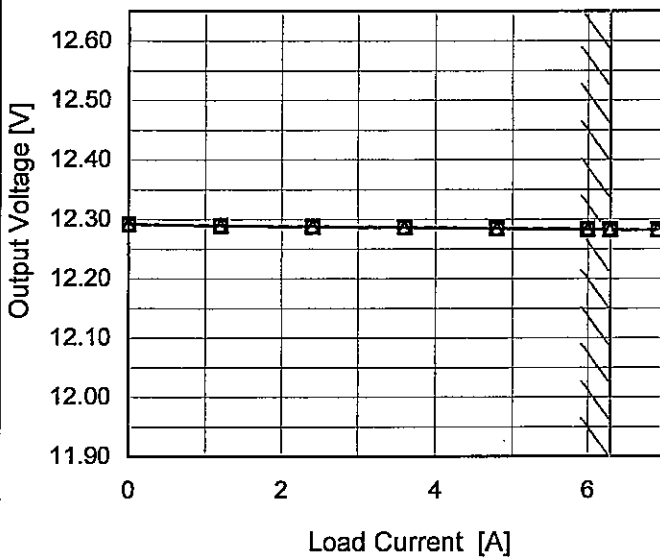
## 2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

# COSEL

Model	LGA75A-12																																
Item	Line Regulation	Temperature	25°C																														
Object	+12V6.3A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>75</td><td>12.292</td><td>12.284</td></tr><tr><td>80</td><td>12.291</td><td>12.284</td></tr><tr><td>85</td><td>12.291</td><td>12.284</td></tr><tr><td>90</td><td>12.290</td><td>12.284</td></tr><tr><td>100</td><td>12.290</td><td>12.284</td></tr><tr><td>110</td><td>12.290</td><td>12.284</td></tr><tr><td>120</td><td>12.290</td><td>12.284</td></tr><tr><td>132</td><td>12.290</td><td>12.283</td></tr><tr><td>140</td><td>12.290</td><td>12.282</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	75	12.292	12.284	80	12.291	12.284	85	12.291	12.284	90	12.290	12.284	100	12.290	12.284	110	12.290	12.284	120	12.290	12.284	132	12.290	12.283	140	12.290	12.282		
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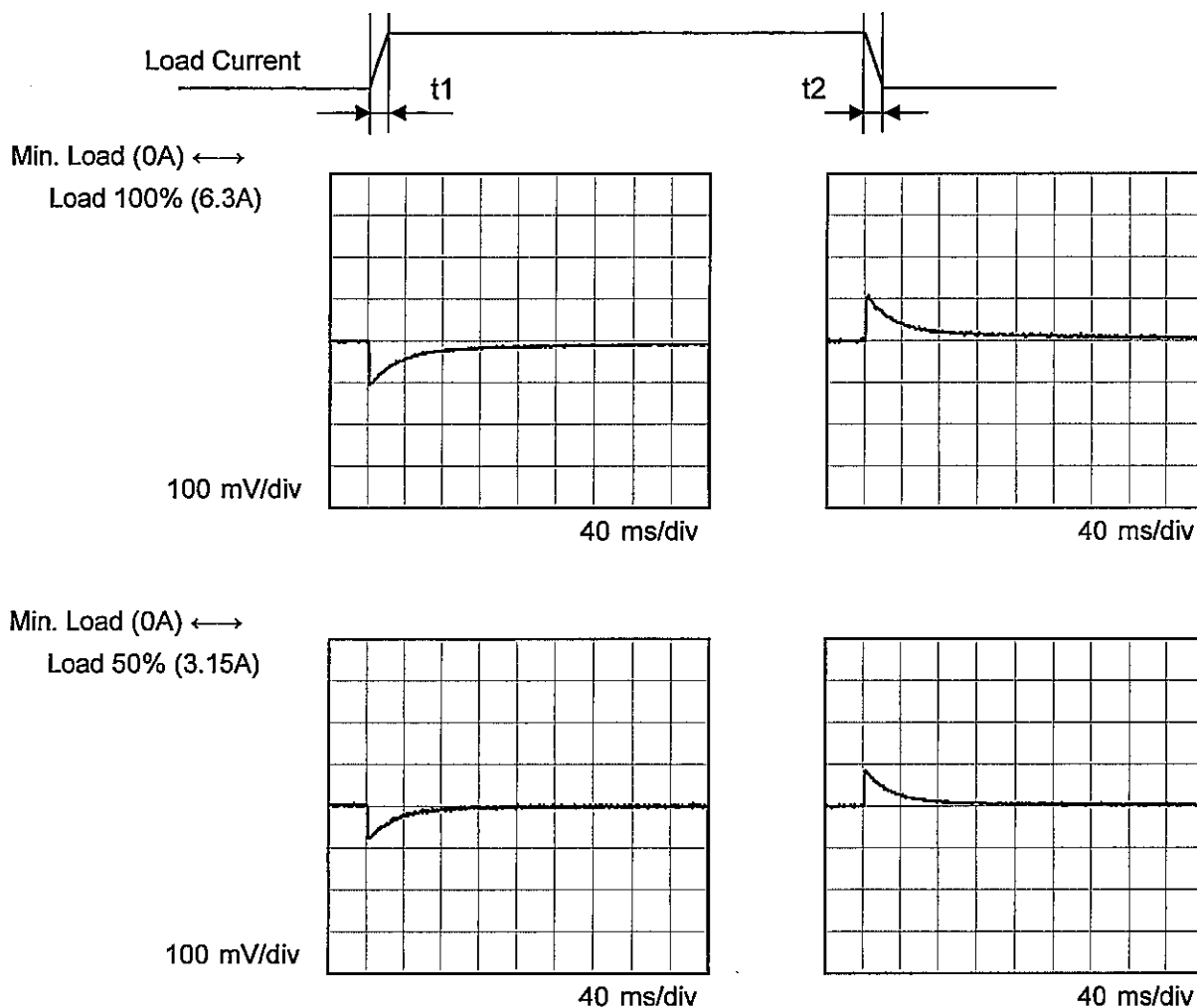
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**COSEL**

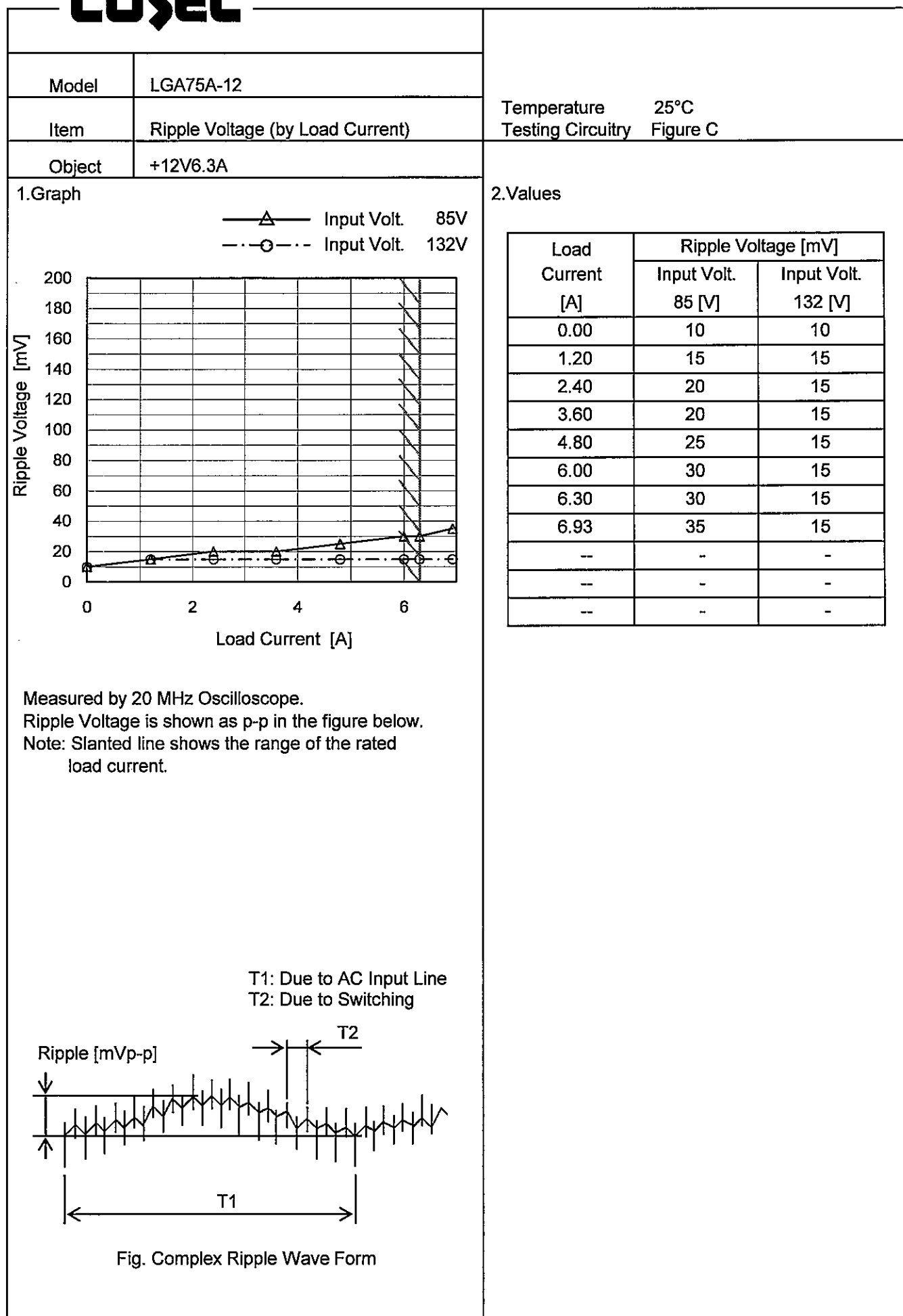
Model	LGA75A-12	Temperature Testing Circuitry	25°C Figure C
Item	Dynamic Load Response		
Object	+12V6.3A		

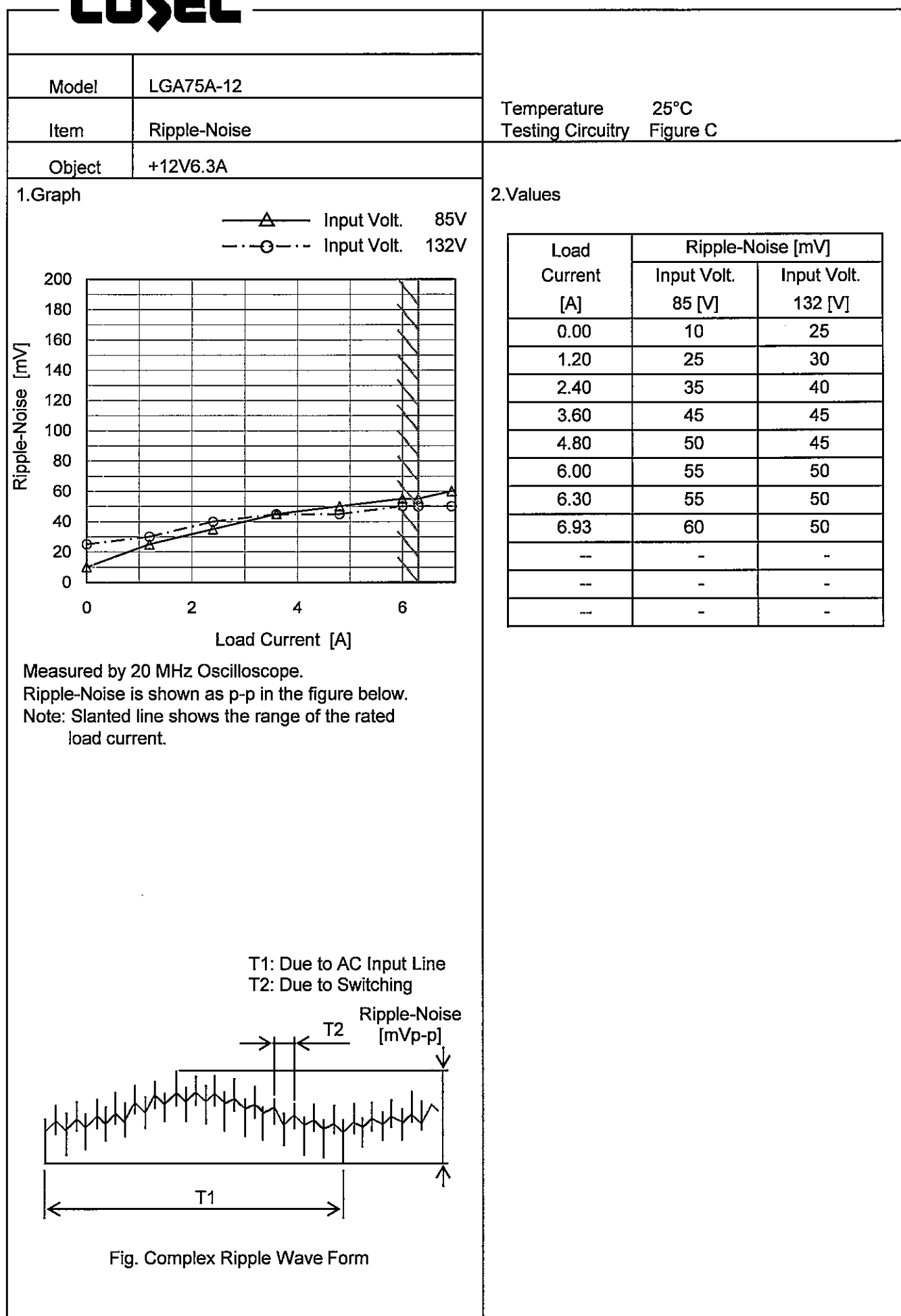
Input Volt. 100 V  
Cycle 1000 ms

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



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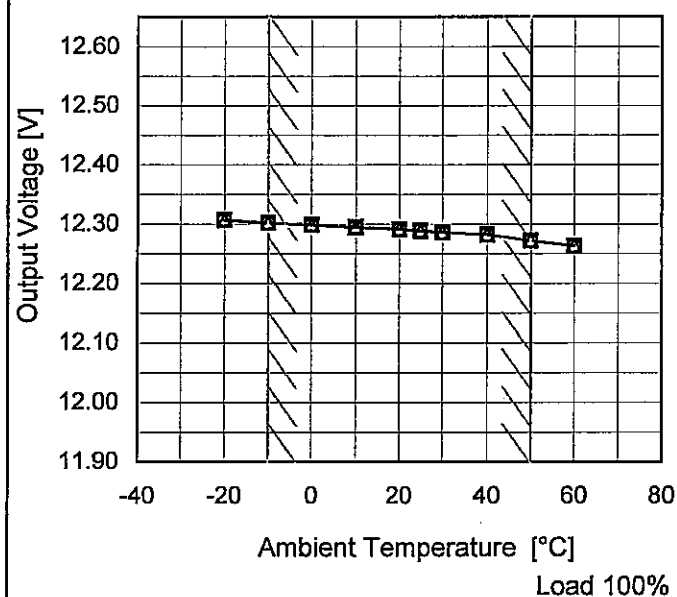


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Model	LGA75A-12
Item	Ambient Temperature Drift
Object	+12V6.3A

1. Graph

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



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	12.306	12.307	12.307
-10	12.302	12.302	12.302
0	12.298	12.299	12.298
10	12.294	12.295	12.295
20	12.291	12.291	12.291
25	12.288	12.289	12.289
30	12.286	12.286	12.286
40	12.282	12.282	12.282
50	12.272	12.272	12.272
60	12.263	12.263	12.263
--	-	-	-



		Testing Circuitry Figure A
Model	LGA75A-12	
Item	Output Voltage Accuracy	
Object	+12V6.3A	

### 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 - 50°C

Input Voltage : 85 - 132V

Load Current : 0 - 6.3A

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

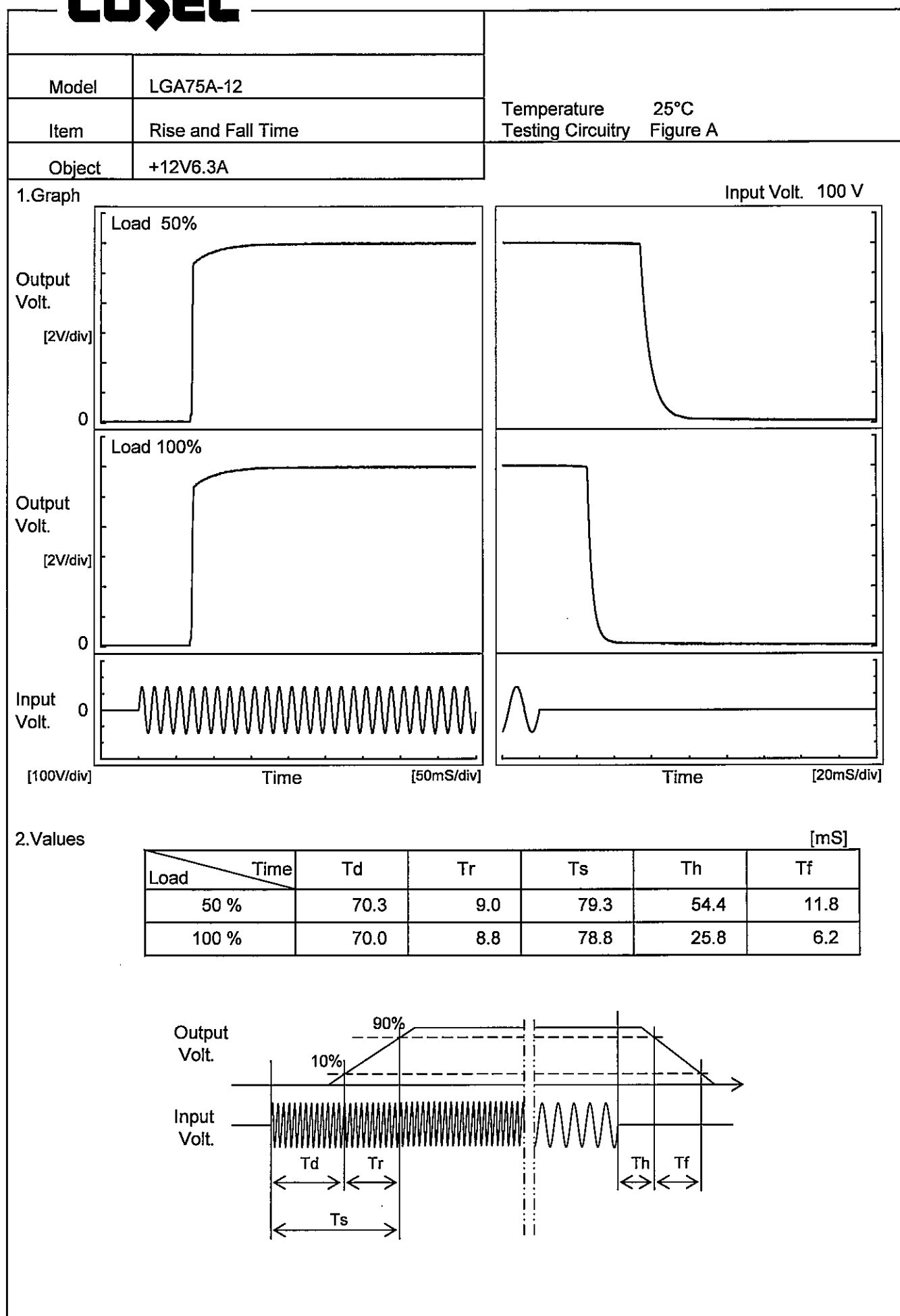
\* Output Voltage Accuracy (Ratio) =  $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	-10	132	0	12.311	±20	±0.2
Minimum Voltage	50	132	6.3	12.272		

**COSEL**

# COSEL



# COSEL

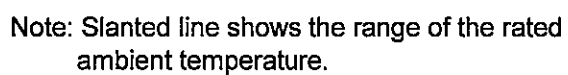
Model	LGA75A-12																																
Item	Hold-Up Time	Temperature	25°C																														
Object	+12V6.3A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr></thead><tbody><tr><td>75</td><td>21</td><td>9</td></tr><tr><td>80</td><td>27</td><td>12</td></tr><tr><td>85</td><td>33</td><td>15</td></tr><tr><td>90</td><td>40</td><td>19</td></tr><tr><td>100</td><td>55</td><td>26</td></tr><tr><td>110</td><td>72</td><td>35</td></tr><tr><td>120</td><td>90</td><td>44</td></tr><tr><td>132</td><td>115</td><td>56</td></tr><tr><td>140</td><td>132</td><td>65</td></tr></tbody></table>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	75	21	9	80	27	12	85	33	15	90	40	19	100	55	26	110	72	35	120	90	44	132	115	56	140	132	65		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
75	21	9																															
80	27	12																															
85	33	15																															
90	40	19																															
100	55	26																															
110	72	35																															
120	90	44																															
132	115	56																															
140	132	65																															
<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																	

# COSEL

Model	LGA75A-12																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+12V6.3A	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> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.20</td><td>88</td><td>140</td><td>288</td></tr><tr><td>2.40</td><td>44</td><td>73</td><td>152</td></tr><tr><td>3.60</td><td>29</td><td>48</td><td>101</td></tr><tr><td>4.80</td><td>21</td><td>35</td><td>76</td></tr><tr><td>6.00</td><td>14</td><td>28</td><td>60</td></tr><tr><td>6.30</td><td>14</td><td>26</td><td>56</td></tr><tr><td>6.93</td><td>13</td><td>23</td><td>51</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></table>		Load Current [A]	Time [ms]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	-	-	-	1.20	88	140	288	2.40	44	73	152	3.60	29	48	101	4.80	21	35	76	6.00	14	28	60	6.30	14	26	56	6.93	13	23	51	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
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--	-	-	-																																																			

Testing Circuitry Figure A

## 2.Values



Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	60	66
-10	59	65
0	59	65
10	58	65
20	58	65
25	58	64
30	58	64
40	58	64
50	58	64
60	57	64
--	-	-

**COSEL**

Model	LGA75A-12																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+12V6.3A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div>Input Volt. 85V</div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 132V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<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>12.0</td><td>7.69</td><td>7.62</td><td>7.64</td></tr><tr><td>11.4</td><td>7.70</td><td>7.64</td><td>7.66</td></tr><tr><td>10.8</td><td>7.72</td><td>7.67</td><td>7.70</td></tr><tr><td>9.6</td><td>7.77</td><td>7.73</td><td>7.78</td></tr><tr><td>8.4</td><td>7.81</td><td>7.79</td><td>7.85</td></tr><tr><td>7.2</td><td>7.86</td><td>7.84</td><td>7.89</td></tr><tr><td>6.0</td><td>7.96</td><td>7.96</td><td>8.00</td></tr><tr><td>4.8</td><td>7.96</td><td>7.97</td><td>8.09</td></tr><tr><td>3.6</td><td>8.02</td><td>8.03</td><td>8.18</td></tr><tr><td>2.4</td><td>8.06</td><td>8.09</td><td>8.24</td></tr><tr><td>1.2</td><td>8.07</td><td>8.09</td><td>8.18</td></tr><tr><td>0.0</td><td>7.85</td><td>7.82</td><td>7.88</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	12.0	7.69	7.62	7.64	11.4	7.70	7.64	7.66	10.8	7.72	7.67	7.70	9.6	7.77	7.73	7.78	8.4	7.81	7.79	7.85	7.2	7.86	7.84	7.89	6.0	7.96	7.96	8.00	4.8	7.96	7.97	8.09	3.6	8.02	8.03	8.18	2.4	8.06	8.09	8.24	1.2	8.07	8.09	8.18	0.0	7.85	7.82	7.88
Output Voltage [V]	Load Current [A]																																																									
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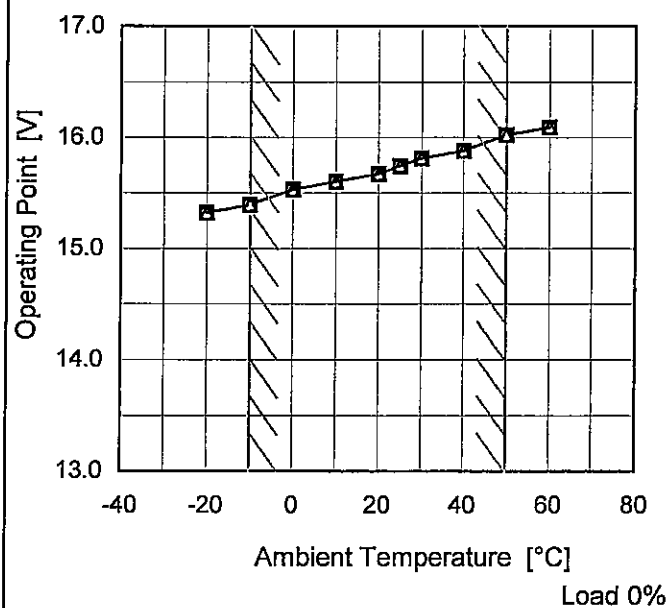


# COSEL

Model	LGA75A-12
Item	Overvoltage Protection
Object	+12V6.3A

1. Graph

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



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	15.32	15.32	15.32
-10	15.39	15.39	15.39
0	15.53	15.53	15.53
10	15.60	15.60	15.60
20	15.67	15.67	15.67
25	15.74	15.74	15.74
30	15.81	15.81	15.81
40	15.88	15.88	15.88
50	16.02	16.02	16.02
60	16.09	16.09	16.09
--	-	-	-

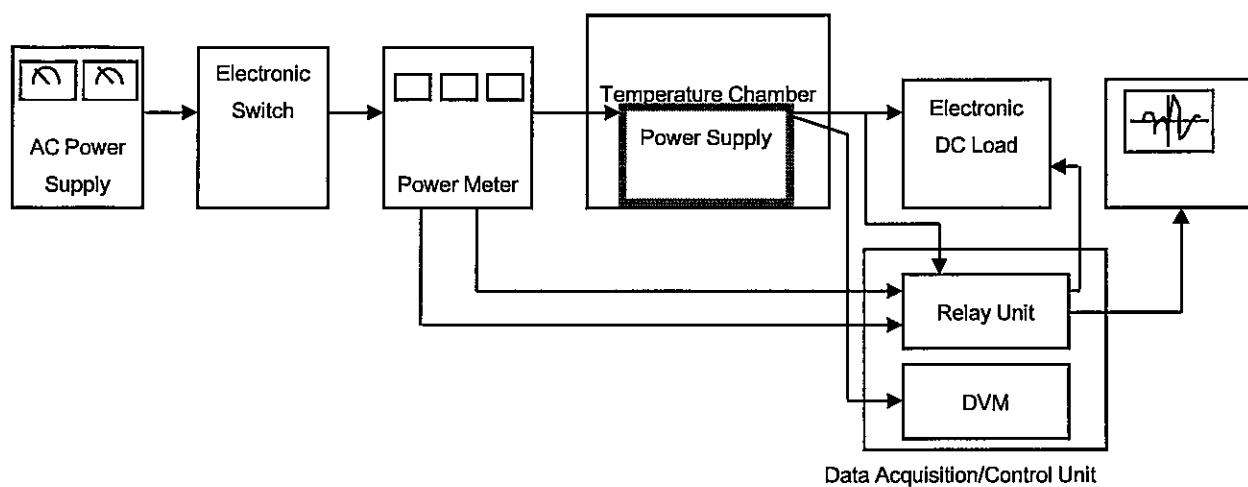


Figure A

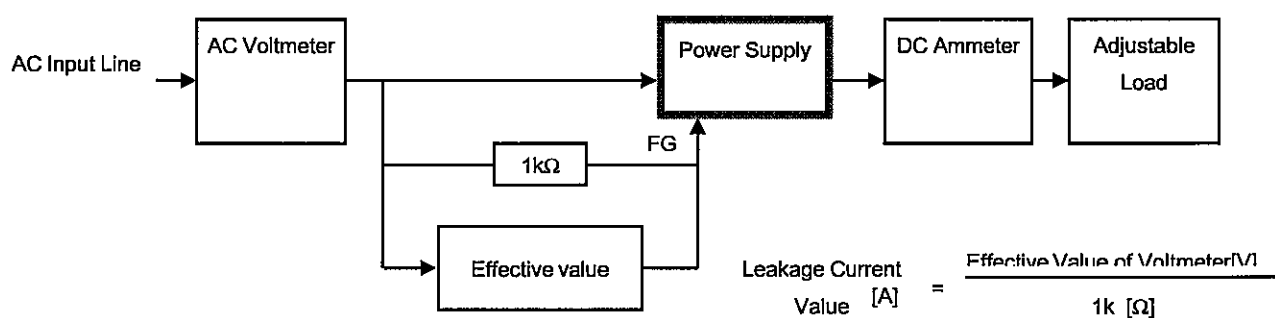


Figure B ( DEN-AN )

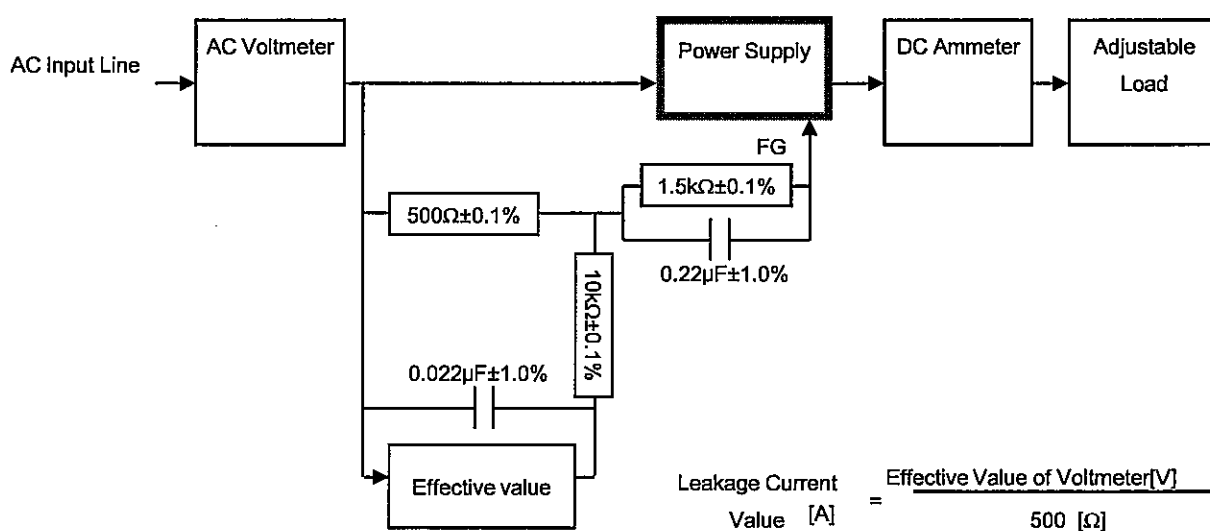


Figure B ( IEC60950 -1)

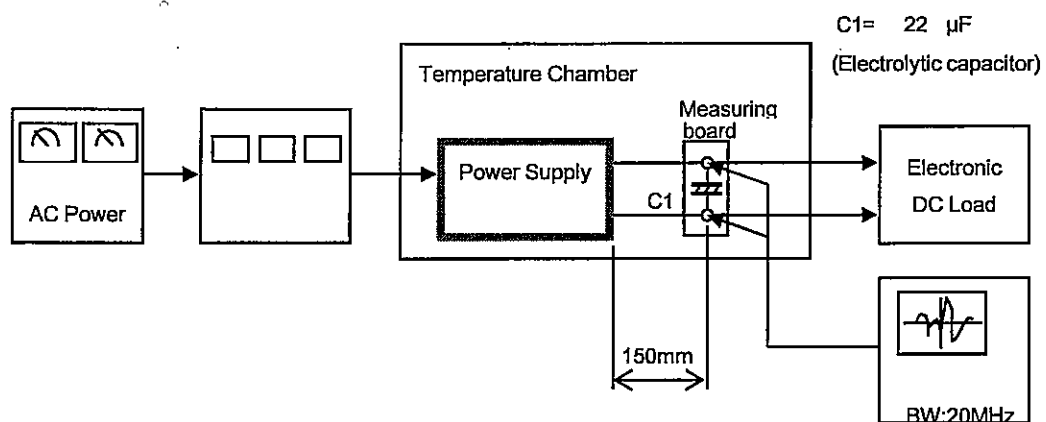


Figure C