

TEST DATA OF G1-12

Regulated DC Power Supply
July 23, 2010

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Eiyoshi Wakamatsu Design Manager

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COSEL CO.,LTD.

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(Final Page 21)

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Model G1-12

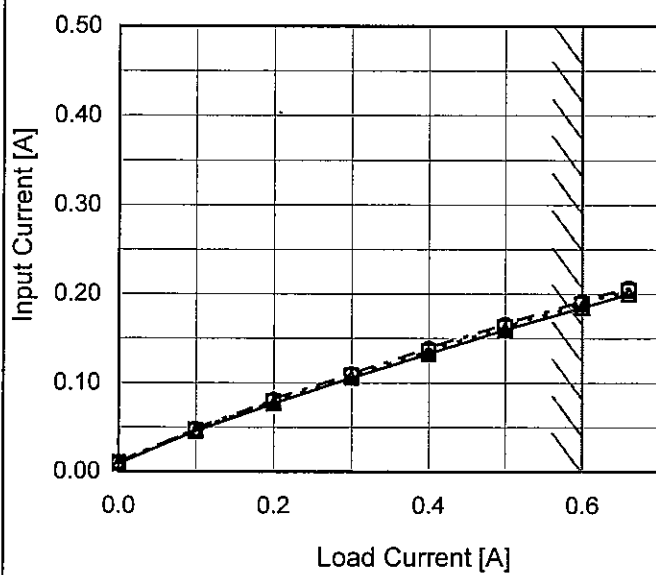
Item Input Current (by Load Current)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 90V
 ---□--- Input Volt. 100V
 - -○- - Input Volt. 110V



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

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	0.009	0.010	0.010
0.10	0.046	0.047	0.048
0.20	0.077	0.079	0.081
0.30	0.106	0.108	0.110
0.40	0.133	0.136	0.139
0.50	0.160	0.163	0.166
0.60	0.185	0.189	0.192
0.66	0.200	0.204	0.207
--	-	-	-
--	-	-	-
--	-	-	-

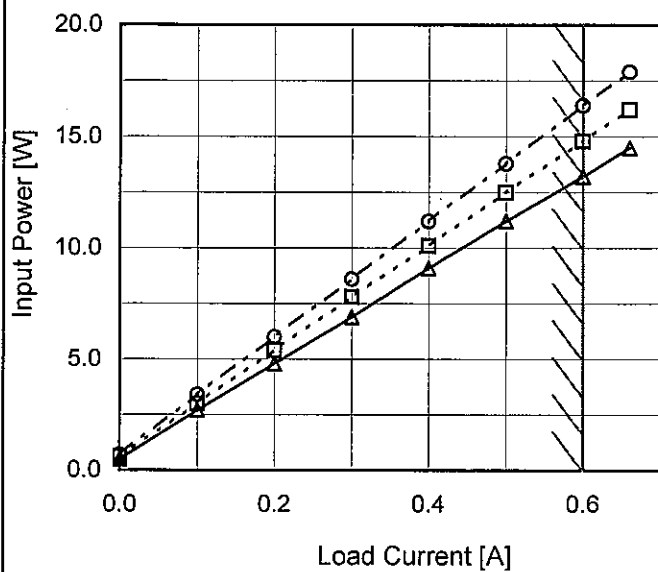
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Model	G1-12
Item	Input Power (by Load Current)
Object	

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 90V
 ---□--- Input Volt. 100V
 -○- Input Volt. 110V



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

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	0.50	0.60	0.70
0.10	2.70	3.00	3.40
0.20	4.80	5.40	6.00
0.30	6.90	7.80	8.60
0.40	9.10	10.10	11.20
0.50	11.20	12.50	13.80
0.60	13.20	14.80	16.40
0.66	14.50	16.20	17.90
--	-	-	-
--	-	-	-
--	-	-	-

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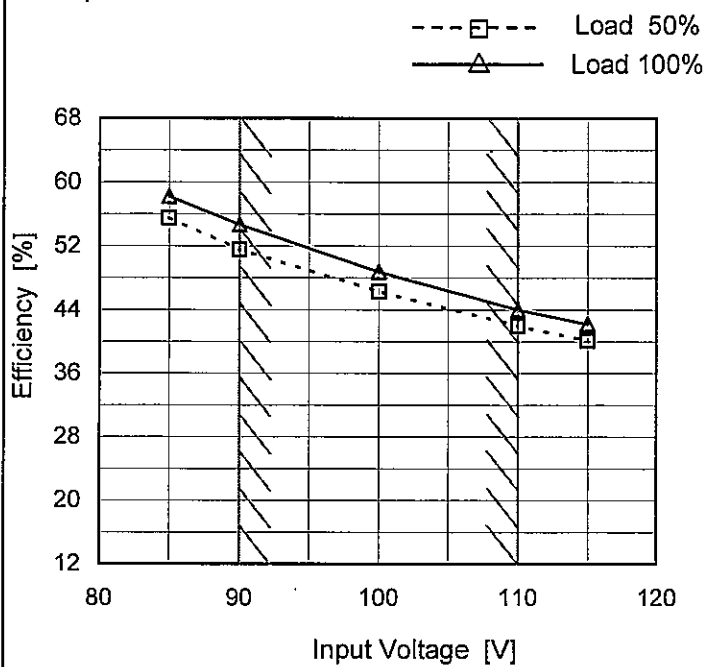
Model G1-12

Item Efficiency (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
85	55.5	58.2
90	51.6	54.7
100	46.3	48.8
110	42.0	44.0
115	40.1	42.2
--	-	-
--	-	-
--	-	-
--	-	-

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Model		G1-12	
Item		Efficiency (by Load Current)	
Object			

1.Graph

—△—

Input Volt.

90V

- - □ - -

Input Volt.

100V

- · - ○ - · -

Input Volt.

110V

Efficiency [%]

60

56

52

48

44

40

36

32

0.0

0.2

0.4

0.6

0.1

0.2

0.3

0.4

0.5

0.6

Load Current [A]

2.Values

Load Current [A]	Efficiency [%]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	-	-	-
0.10	44.8	40.4	35.6
0.20	50.3	44.7	40.2
0.30	52.4	46.4	42.0
0.40	53.0	47.7	43.0
0.50	53.8	48.2	43.6
0.60	54.7	48.8	44.1
0.66	54.8	49.1	44.4
--	-	-	-
--	-	-	-
--	-	-	-

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

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Model		G1-12	
Item		Power Factor (by Input Voltage)	
Object			

1.Graph

Load 50%

Load 100%

Power Factor

<

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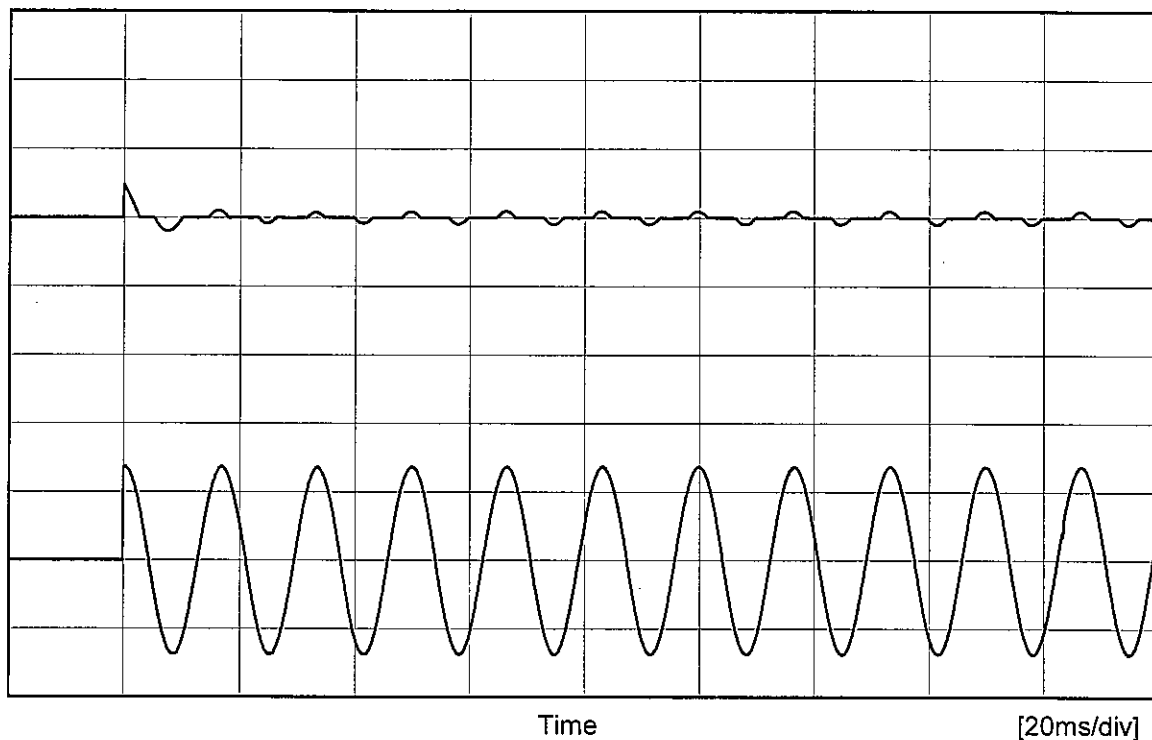
Model		G1-12		Temperature		25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry		Figure A																																																				
Object																																																										
1.Graph				2.Values																																																						
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt.</div><div>90V</div></div><div><div>Input Volt.</div><div>100V</div></div><div><div>Input Volt.</div><div>110V</div></div></div><p>Power Factor</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">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.10</td><td>0.653</td><td>0.645</td><td>0.642</td></tr><tr><td>0.20</td><td>0.696</td><td>0.684</td><td>0.674</td></tr><tr><td>0.30</td><td>0.729</td><td>0.722</td><td>0.705</td></tr><tr><td>0.40</td><td>0.758</td><td>0.743</td><td>0.732</td></tr><tr><td>0.50</td><td>0.778</td><td>0.767</td><td>0.758</td></tr><tr><td>0.60</td><td>0.795</td><td>0.783</td><td>0.777</td></tr><tr><td>0.66</td><td>0.806</td><td>0.794</td><td>0.785</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]	Power Factor			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	-	-	-	0.10	0.653	0.645	0.642	0.20	0.696	0.684	0.674	0.30	0.729	0.722	0.705	0.40	0.758	0.743	0.732	0.50	0.778	0.767	0.758	0.60	0.795	0.783	0.777	0.66	0.806	0.794	0.785	--	-	-	-	--	-	-	-	--	-	-	-
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Model		G1-12	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	

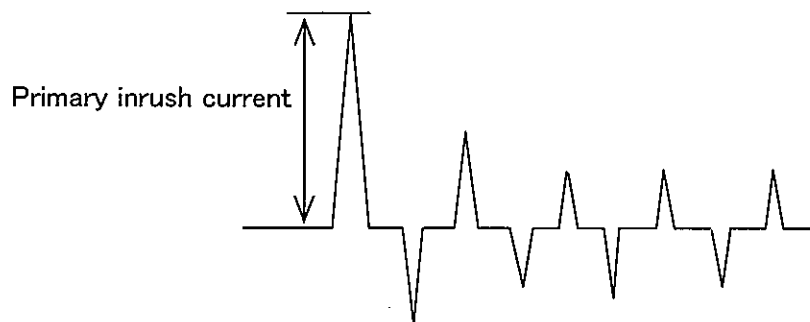
Input
Current
[5A/div]

Input
Voltage
[100V/div]



Input Voltage	100 V
Frequency	60 Hz
Load	100 %

Primary inrush current	2.4 A
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Model	G1-12																																
Item	Line Regulation	Temperature	25°C																														
Object	+12V0.6A	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>85</td><td>12.033</td><td>12.032</td></tr><tr><td>90</td><td>12.033</td><td>12.032</td></tr><tr><td>100</td><td>12.033</td><td>12.032</td></tr><tr><td>110</td><td>12.033</td><td>12.032</td></tr><tr><td>115</td><td>12.033</td><td>12.032</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>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	85	12.033	12.032	90	12.033	12.032	100	12.033	12.032	110	12.033	12.032	115	12.033	12.032	--	-	-	--	-	-	--	-	-	--	-	-		
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Note: Slanted line shows the range of the rated input voltage.																																	

Temperature	25°C
Testing Circuitry	Figure A



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

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Model	G1-12	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+12V0.6A		

Input Volt. 100 V
Cycle 1000 ms

Load Current

Min. Load (0A) ↔
Load 100% (0.6A)

50 mV/div

100 μs/div

100 μs/div

Load 50% (0.3A) ↔
Load 100% (0.6A)

50 mV/div

100 μs/div

100 μs/div

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Model	G1-12																																											
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																									
Object	+12V0.6A	Testing Circuitry	Figure A																																									
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<div><div><div>—△—</div><div>Input Volt.</div><div>90V</div></div><div><div>-○-</div><div>Input Volt.</div><div>110V</div></div></div> <p>Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 90 [V]</th><th>Input Volt. 110 [V]</th></tr><tr><td>0.0</td><td>0.6</td><td>0.6</td></tr><tr><td>0.3</td><td>0.7</td><td>0.7</td></tr><tr><td>0.6</td><td>0.8</td><td>0.8</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><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><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 90 [V]	Input Volt. 110 [V]	0.0	0.6	0.6	0.3	0.7	0.7	0.6	0.8	0.8	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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COSEL

Model	G1-12																																																										
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure A																																																									
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<div><div><div>—△—</div><div>Input Volt.</div><div>90V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>---○---</div><div>Input Volt.</div><div>110V</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>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>-20</td><td>12.027</td><td>12.027</td><td>12.027</td></tr><tr><td>-10</td><td>12.029</td><td>12.029</td><td>12.029</td></tr><tr><td>0</td><td>12.031</td><td>12.031</td><td>12.031</td></tr><tr><td>10</td><td>12.033</td><td>12.033</td><td>12.033</td></tr><tr><td>20</td><td>12.033</td><td>12.033</td><td>12.032</td></tr><tr><td>25</td><td>12.032</td><td>12.032</td><td>12.031</td></tr><tr><td>30</td><td>12.030</td><td>12.030</td><td>12.030</td></tr><tr><td>40</td><td>12.027</td><td>12.027</td><td>12.027</td></tr><tr><td>50</td><td>12.021</td><td>12.021</td><td>12.021</td></tr><tr><td>60</td><td>12.016</td><td>12.016</td><td>12.016</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	-20	12.027	12.027	12.027	-10	12.029	12.029	12.029	0	12.031	12.031	12.031	10	12.033	12.033	12.033	20	12.033	12.033	12.032	25	12.032	12.032	12.031	30	12.030	12.030	12.030	40	12.027	12.027	12.027	50	12.021	12.021	12.021	60	12.016	12.016	12.016	--	-	-	-
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0	12.031	12.031	12.031																																																			
10	12.033	12.033	12.033																																																			
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50	12.021	12.021	12.021																																																			
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		Testing Circuitry Figure A
Model	G1-12	
Item	Output Voltage Accuracy	
Object	+12V0.6A	

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 : 90 - 110V

Load Current : 0 - 0.6A

* 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	110	0	12.034	±7	±0.1
Minimum Voltage	50	100	0.6	12.021		

COSEL

Model		G1-12	
Item		Time Lapse Drift	
Object		+12V0.6A	

1.Graph

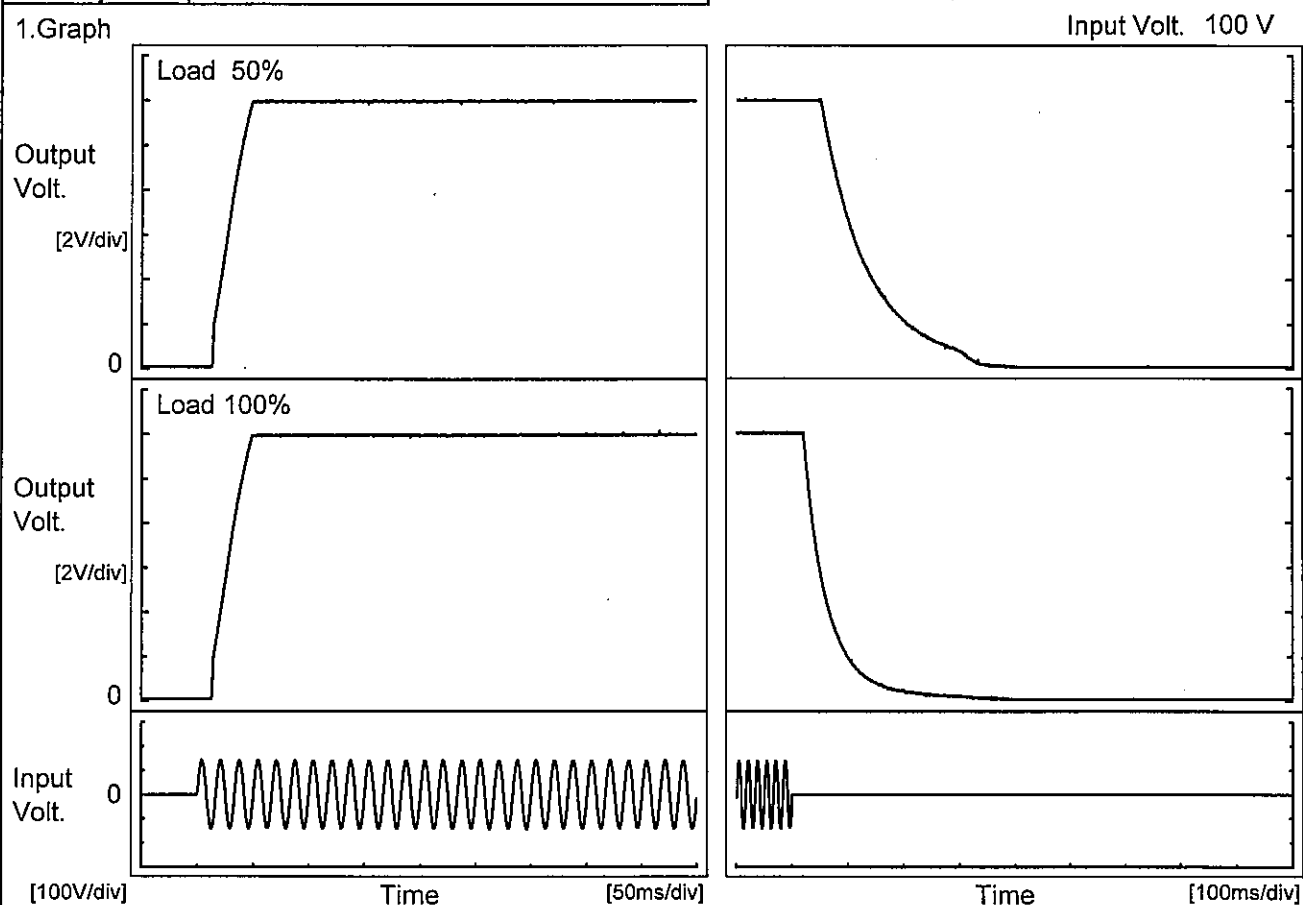
Output Voltage [V]

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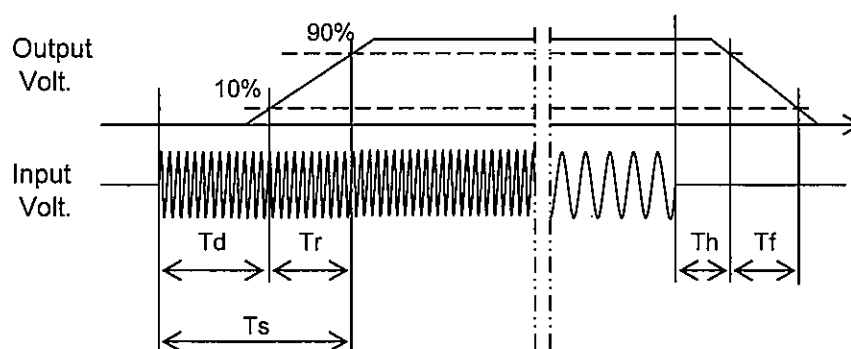
Model	G1-12	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V0.6A		

1. Graph



2. Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		14.3	29.8	44.1	60.5	193.5
100 %		14.0	30.0	44.0	25.0	97.5



COSEL

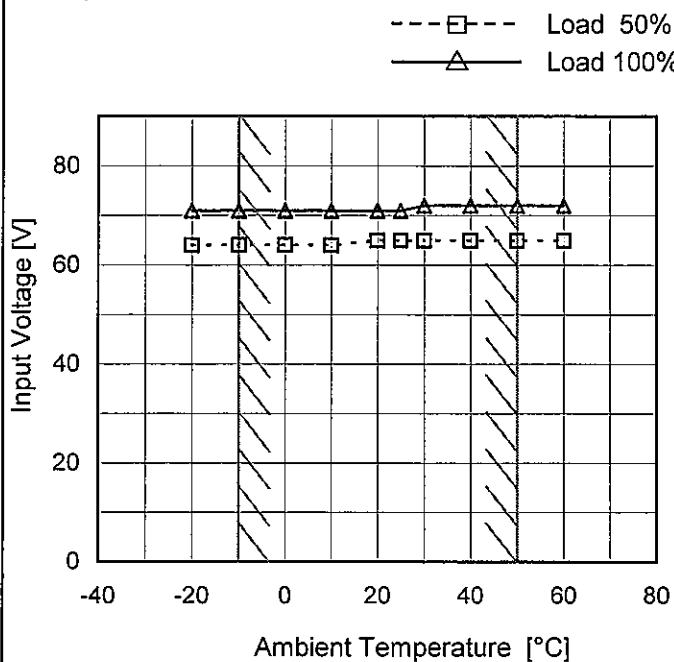
Model	G1-12																																
Item	Hold-Up Time	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+12V0.6A																																
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></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 (80 to 120). 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 rated input voltage range from approximately 90V to 115V.</p> <table border="1"><thead><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr></thead><tbody><tr><td>85</td><td>30</td><td>10</td></tr><tr><td>90</td><td>38</td><td>14</td></tr><tr><td>100</td><td>53</td><td>21</td></tr><tr><td>110</td><td>69</td><td>29</td></tr><tr><td>115</td><td>77</td><td>33</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>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	85	30	10	90	38	14	100	53	21	110	69	29	115	77	33	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
85	30	10																															
90	38	14																															
100	53	21																															
110	69	29																															
115	77	33																															
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<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>																																	

Model	G1-12																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+12V0.6A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△— Input Volt. 90V</div><div>- -□- - Input Volt. 100V</div><div>- ··○- · Input Volt. 110V</div></div><div><p>Instantaneous Compensation Time [ms]</p><p>Load Current [A]</p></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.10</td><td>137</td><td>183</td><td>229</td></tr><tr><td>0.20</td><td>63</td><td>86</td><td>110</td></tr><tr><td>0.30</td><td>38</td><td>54</td><td>69</td></tr><tr><td>0.40</td><td>23</td><td>37</td><td>49</td></tr><tr><td>0.50</td><td>19</td><td>24</td><td>37</td></tr><tr><td>0.60</td><td>6</td><td>21</td><td>24</td></tr><tr><td>0.66</td><td>6</td><td>19</td><td>23</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. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	-	-	-	0.10	137	183	229	0.20	63	86	110	0.30	38	54	69	0.40	23	37	49	0.50	19	24	37	0.60	6	21	24	0.66	6	19	23	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																						

COSEL

Model	G1-12
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+12V0.6A

1. Graph



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

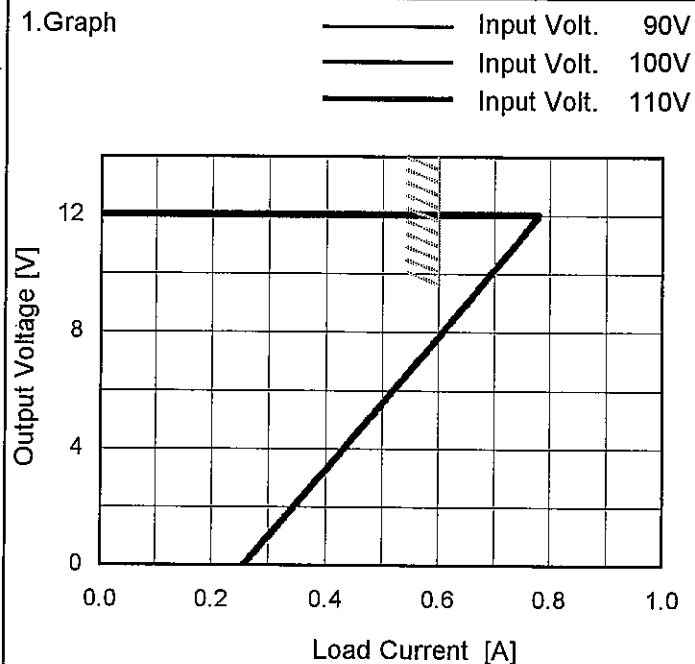
Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	64	71
-10	64	71
0	64	71
10	64	71
20	65	71
25	65	71
30	65	72
40	65	72
50	65	72
60	65	72
--	-	-

Model	G1-12
Item	Overcurrent Protection
Object	+12V0.6A

1.Graph



Temperature 25°C
Testing Circuitry Figure A

2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
12.0	0.78	0.78	0.78
11.4	0.76	0.76	0.76
10.8	0.74	0.74	0.74
9.6	0.68	0.68	0.69
8.4	0.64	0.64	0.64
7.2	0.58	0.58	0.58
6.0	0.52	0.53	0.53
4.8	0.47	0.47	0.47
3.6	0.42	0.42	0.42
2.4	0.36	0.36	0.36
1.2	0.31	0.31	0.31
0.0	0.26	0.26	0.26

COSEL

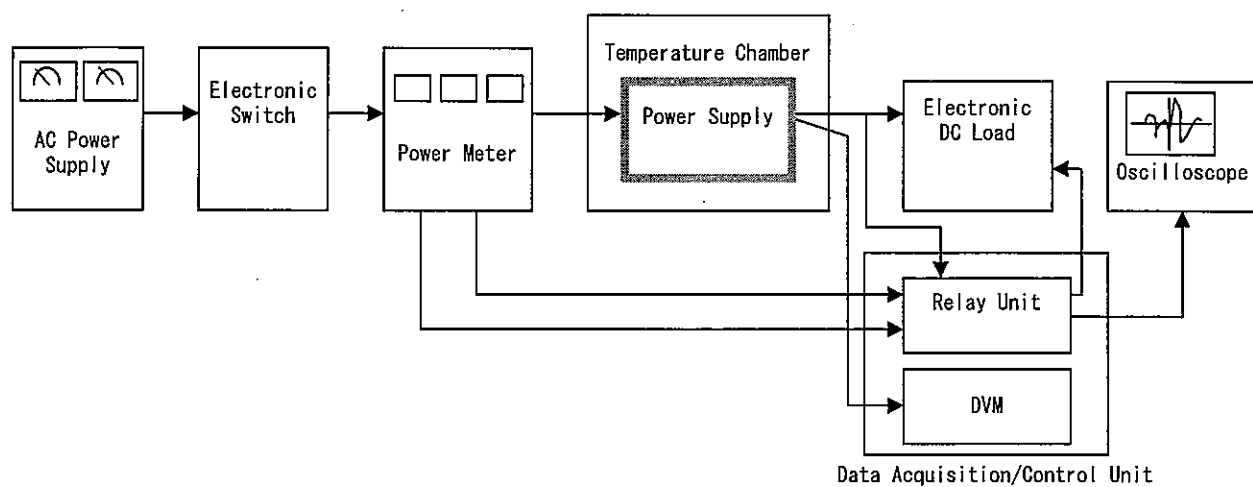


Figure A