

TEST DATA OF G1W-15

Regulated DC Power Supply
October 13, 2010

Approved by : Eiyoshi Wakamatsu
Eiyoshi Wakamatsu Design Manager

Prepared by : Satoshi Kinoshita
Satoshi Kinoshita Design Engineer

COSEL CO.,LTD.

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Model		G1W-15		Temperature 25°C																																																				
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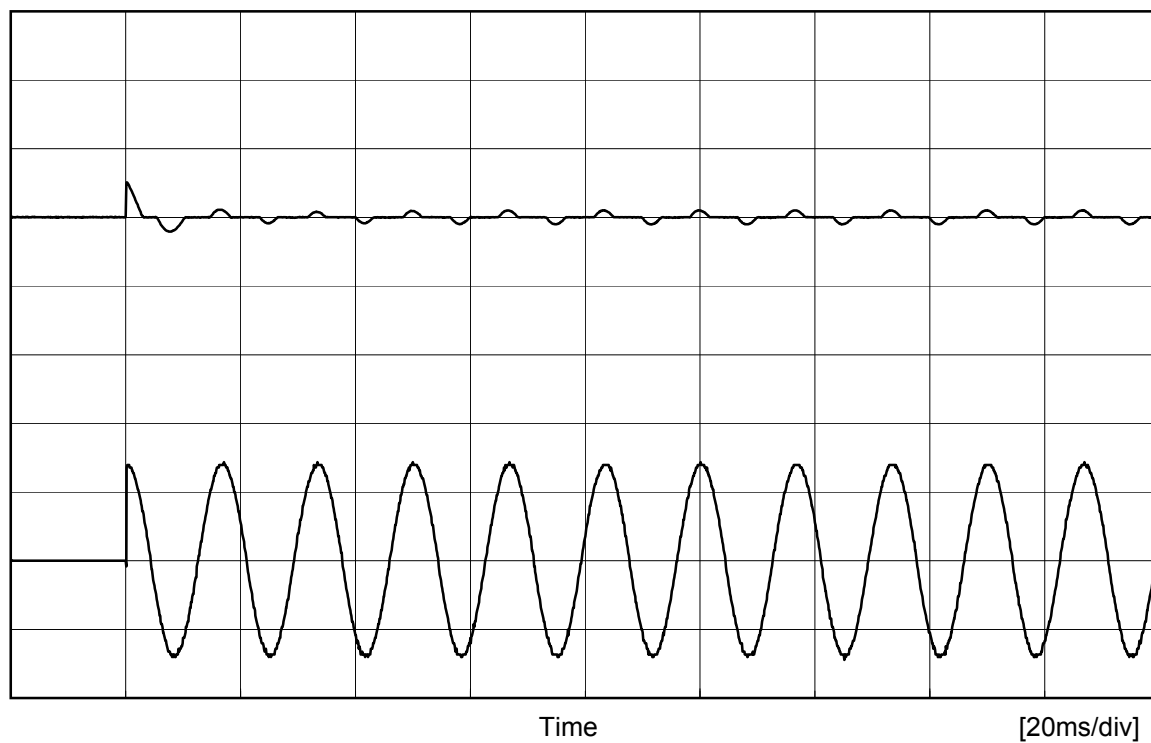
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Item	Power Factor (by Load Current)	Temperature	25°C																																																			
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Model	G1W-15	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		

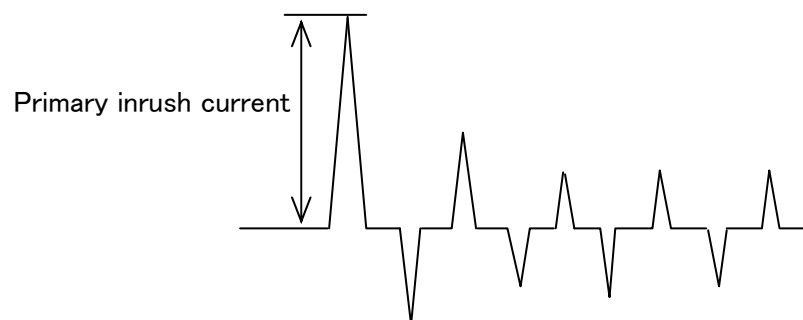
Input
Current
[5A/div]

Input
Voltage
[100V/div]

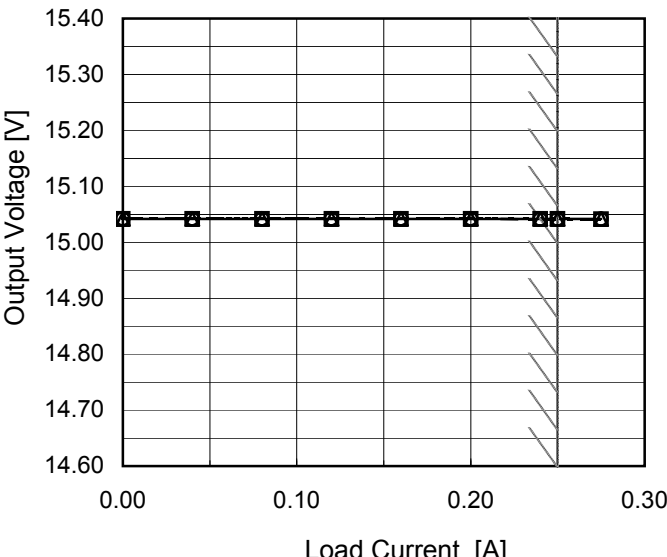
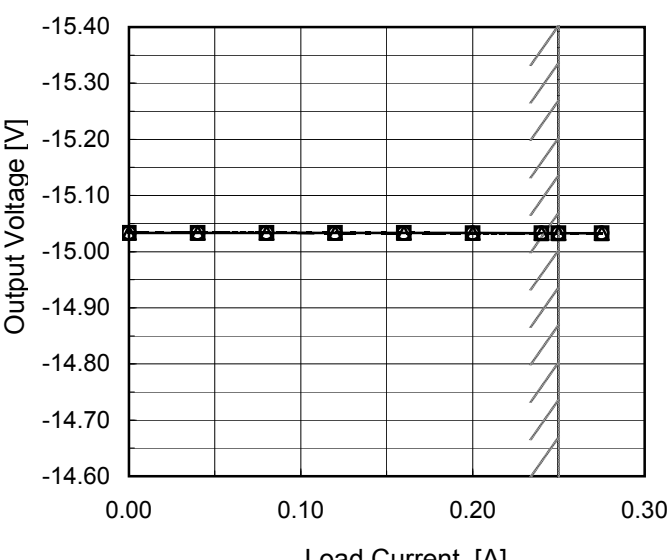


Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current 2.6 A



Model	G1W-15																																		
Item	Line Regulation	Temperature	25°C																																
		Testing Circuitry	Figure A																																
Object	+15V0.25A																																		
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-9-

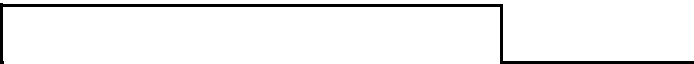
BC-10212



Model	G1W-15		
Item	Dynamic Load Response	Temperature	25°C
Object	+15V0.25A	Testing Circuitry	Figure A

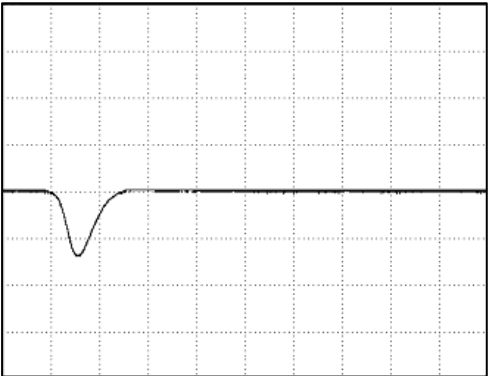
Input Volt. 100 V
Cycle 1000 ms

Load Current

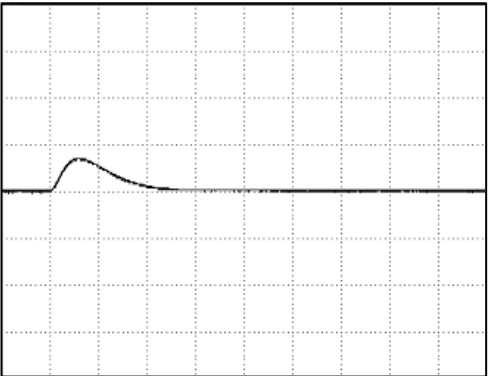


Min. Load (0A) ←→
Load 100% (0.25A)

50 mV/div



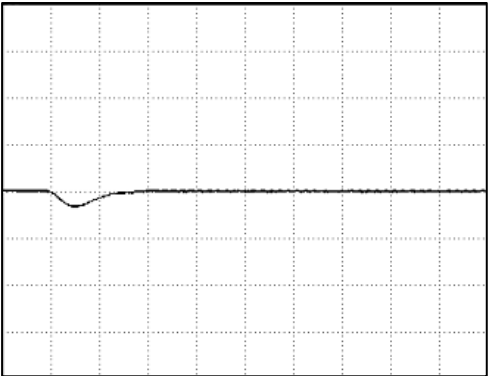
100 μs/div



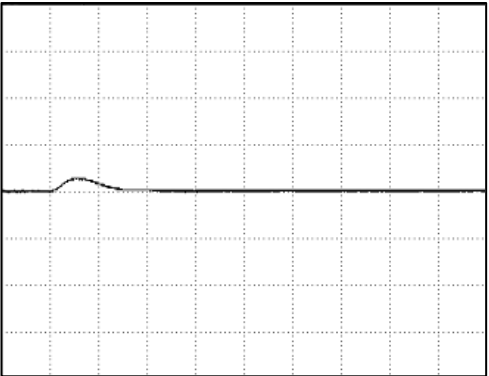
100 μs/div

Load 50% (0.125A) ←→
Load 100% (0.25A)

50 mV/div



100 μs/div



100 μs/div



Model	G1W-15		
Item	Dynamic Load Response	Temperature	25°C
Object	-15V0.25A	Testing Circuitry	Figure A

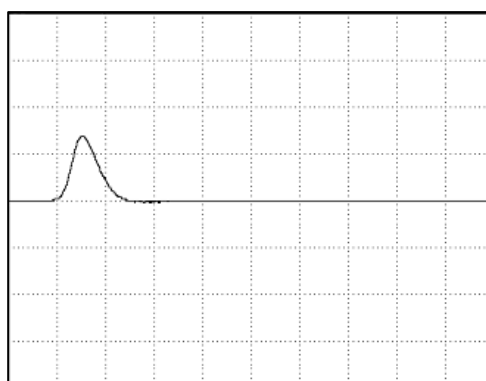
Input Volt. 100 V
Cycle 1000 ms

Load Current

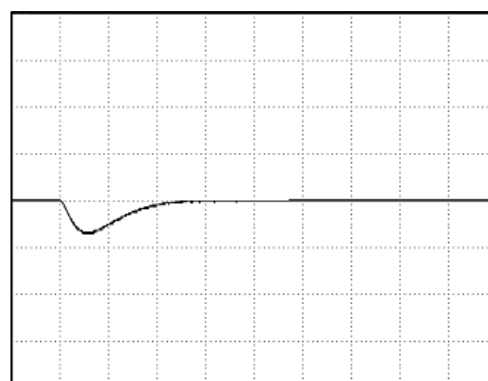


Min. Load (0A) \longleftrightarrow
Load 100% (0.25A)

50 mV/div



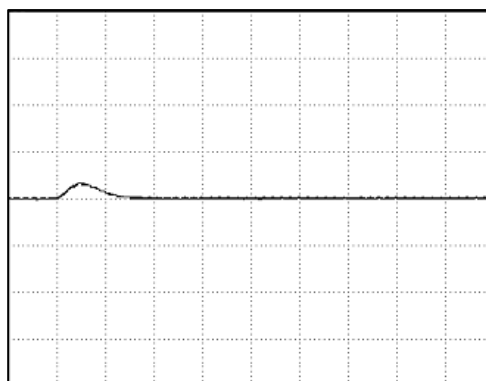
100 μ s/div



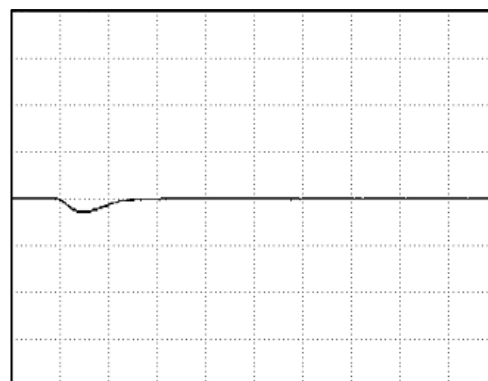
100 μ s/div

Load 50% (0.125A) \longleftrightarrow
Load 100% (0.25A)

50 mV/div



100 μ s/div



100 μ s/div

Model	G1W-15																																											
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																									
		Testing Circuitry	Figure A																																									
Object	+15V0.25A																																											
1.Graph		2.Values																																										
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Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated load current.																																												

- 12 -

BC-10212

Model	G1W-15	Temperature 25°C Testing Circuitry Figure A																																										
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Object	-15V0.25A																																											
1.Graph		2.Values																																										
<div><div><div>—△—</div><div>Input Volt. 90V</div></div><div><div>-·-○-·-</div><div>Input Volt. 110V</div></div></div> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</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>0.000</td><td>0.6</td><td>0.6</td></tr><tr><td>0.125</td><td>0.7</td><td>0.7</td></tr><tr><td>0.250</td><td>0.7</td><td>0.7</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]	0.000	0.6	0.6	0.125	0.7	0.7	0.250	0.7	0.7	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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<p>Measured by 20 MHz Oscilloscope.</p> <p>Note: Slanted line shows the range of the rated load current.</p>																																												

- 13 -

BC-10212

Model	G1W-15																																														
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure A																																													
Object	+15V0.25A																																														
1.Graph		2.Values																																													
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Measured by 20 MHz Oscilloscope.																																															
Note: Slanted line shows the range of the rated ambient temperature.																																															

- 14 -

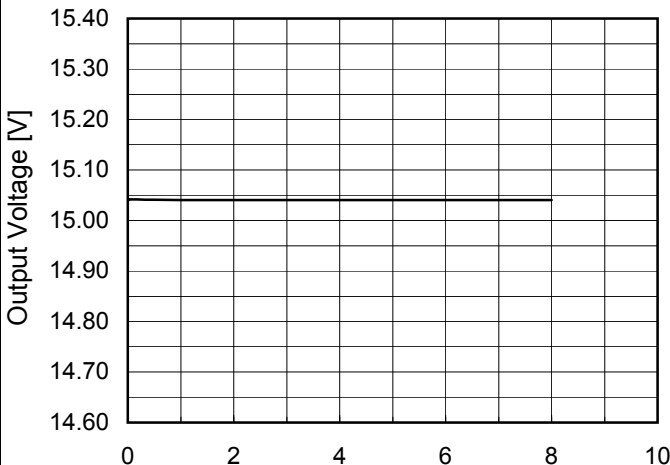
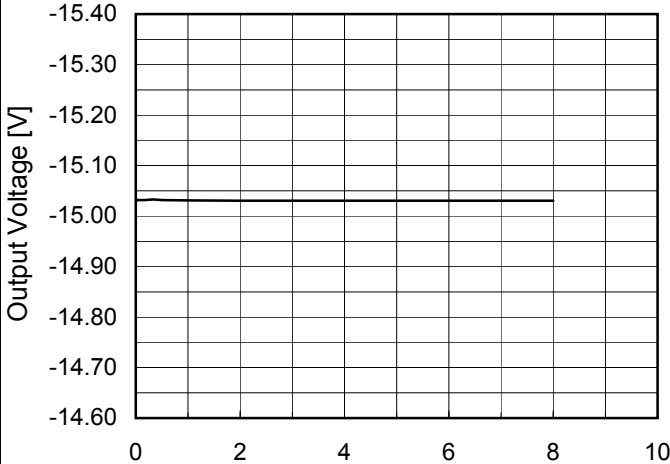
BC-10212

Model	G1W-15																																																						
Item	Ambient Temperature Drift	Testing Circuitry Figure A																																																					
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Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																				
-20	-15.029	-15.029	-15.029																																																				
-10	-15.033	-15.033	-15.033																																																				
0	-15.036	-15.036	-15.036																																																				
10	-15.037	-15.037	-15.037																																																				
20	-15.036	-15.036	-15.036																																																				
25	-15.035	-15.035	-15.034																																																				
30	-15.034	-15.034	-15.034																																																				
40	-15.031	-15.031	-15.030																																																				
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		Load 100%																																																					
Note: Slanted line shows the range of the rated ambient temperature.																																																							

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COSEL

Model	G1W-15																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+15V0.25A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.041</td></tr><tr><td>0.5</td><td>15.041</td></tr><tr><td>1.0</td><td>15.041</td></tr><tr><td>2.0</td><td>15.041</td></tr><tr><td>3.0</td><td>15.041</td></tr><tr><td>4.0</td><td>15.041</td></tr><tr><td>5.0</td><td>15.041</td></tr><tr><td>6.0</td><td>15.041</td></tr><tr><td>7.0</td><td>15.041</td></tr><tr><td>8.0</td><td>15.041</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.041	0.5	15.041	1.0	15.041	2.0	15.041	3.0	15.041	4.0	15.041	5.0	15.041	6.0	15.041	7.0	15.041	8.0	15.041
Time since start [H]	Output Voltage [V]																								
0.0	15.041																								
0.5	15.041																								
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<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-15.033</td></tr><tr><td>0.5</td><td>-15.032</td></tr><tr><td>1.0</td><td>-15.031</td></tr><tr><td>2.0</td><td>-15.031</td></tr><tr><td>3.0</td><td>-15.031</td></tr><tr><td>4.0</td><td>-15.031</td></tr><tr><td>5.0</td><td>-15.031</td></tr><tr><td>6.0</td><td>-15.031</td></tr><tr><td>7.0</td><td>-15.031</td></tr><tr><td>8.0</td><td>-15.031</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-15.033	0.5	-15.032	1.0	-15.031	2.0	-15.031	3.0	-15.031	4.0	-15.031	5.0	-15.031	6.0	-15.031	7.0	-15.031	8.0	-15.031
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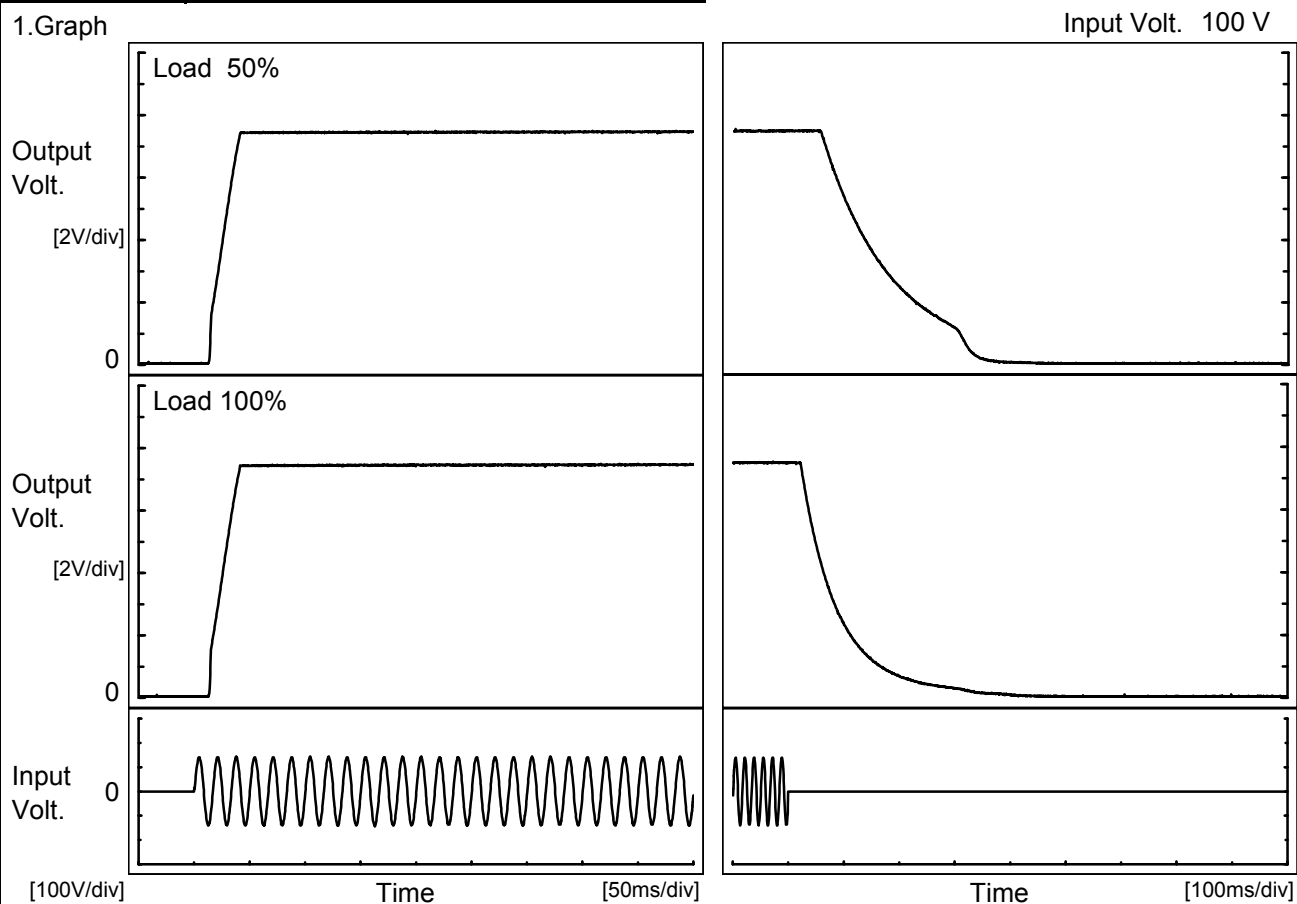
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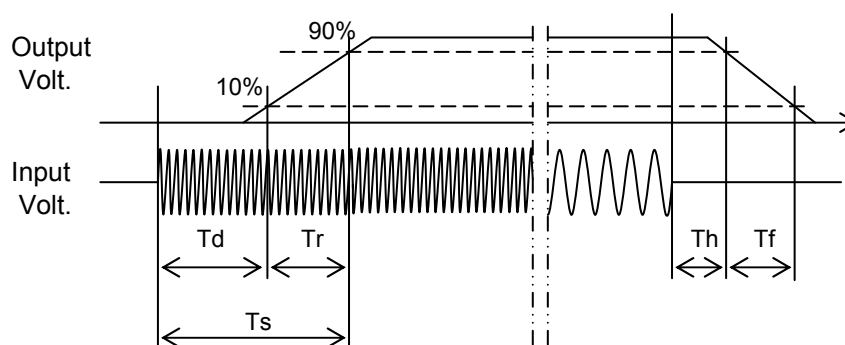
Model	G1W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.25A		

1. Graph



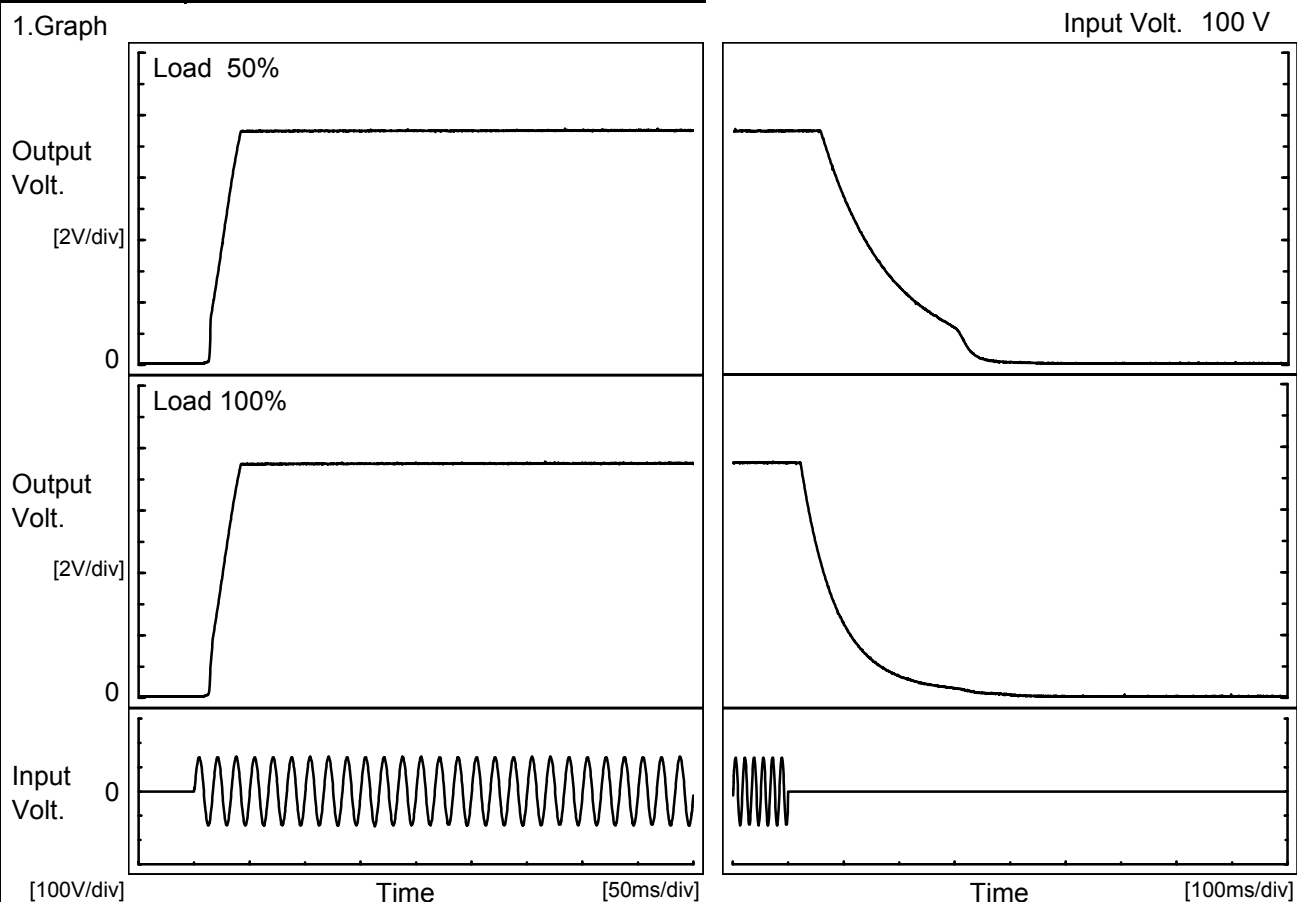
2. Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		14.8	23.5	38.3	70.0	244.0
100 %		14.8	23.5	38.3	28.5	159.5



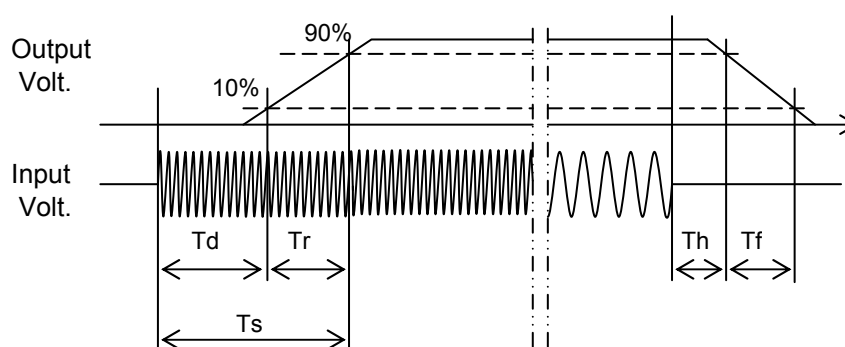
Model	G1W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.25A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	14.5	24.0	38.5	68.5	250.0
100 %	14.5	23.8	38.3	28.0	153.0



COSEL

Model	G1W-15																																
Item	Hold-Up Time	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+15V0.25A																																
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<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 vertical slanted line is drawn at 90V, indicating the rated input voltage range.</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>28</td><td>7</td></tr><tr><td>90</td><td>38</td><td>12</td></tr><tr><td>100</td><td>58</td><td>23</td></tr><tr><td>110</td><td>80</td><td>33</td></tr><tr><td>115</td><td>91</td><td>39</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	28	7	90	38	12	100	58	23	110	80	33	115	91	39	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
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100	58	23																															
110	80	33																															
115	91	39																															
--	-	-																															
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--	-	-																															
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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>																																	

COSEL

Model	G1W-15																																
Item	Hold-Up Time	Temperature	25°C																														
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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>																																	

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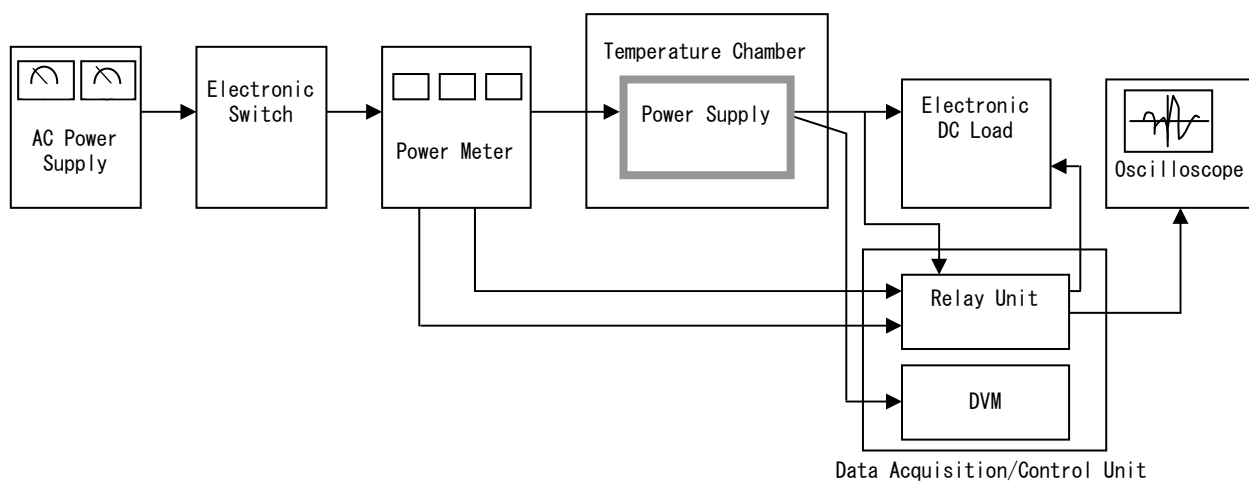


Figure A