

TEST DATA OF G2W-15

Regulated DC Power Supply
October 19, 2010

Approved by : Eiyoshi Wakamatsu
Design Manager

Prepared by : Satoshi Kinoshita
Design Engineer

COSEL CO.,LTD.

CONTENTS

1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Power Factor (by Input Voltage)	5
6.Power Factor (by Load Current)	6
7.Inrush Current	7
8.Line Regulation	8
9.Load Regulation	9
10.Dynamic Load Response	10
11.Ripple Voltage (by Load Current)	12
12.Ripple Voltage (by Ambient Temperature)	14
13.Ambient Temperature Drift	15
14.Output Voltage Accuracy	16
15.Time Lapse Drift	17
16.Rise and Fall Time	18
17.Hold-Up Time	20
18.Instantaneous Interruption Compensation	22
19.Minimum Input Voltage for Regulated Output Voltage	24
20.Overcurrent Protection	25
21.Figure of Testing Circuitry	26

(Final Page 26)



Model		G2W-15		Temperature 25°C	
Item		Input Current (by Load Current)		Testing Circuitry Figure A	
Object					
1.Graph		<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. 90V</div> <div>Input Volt. 100V</div> <div>Input Volt. 110V</div>		2.Values	
<div><div><div><div>Input Current [A]</div><div><div></div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div></div>					

COSEL

Model		G2W-15		Temperature 25°C																																																						
Item		Input Power (by Load Current)		Testing Circuitry Figure A																																																						
Object		_____																																																								
1.Graph		<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> <div><div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>0</div><div>40</div><div>80</div><div>120</div></div></div> <div><div>Input Power [W]</div><div>Load Ration [%]</div></div>		2.Values		<table><tr><th rowspan="2">Load Ration [%]</th><th colspan="3">Input Power [W]</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</td><td>1.00</td><td>1.20</td><td>1.40</td></tr><tr><td>20</td><td>5.60</td><td>6.30</td><td>7.00</td></tr><tr><td>40</td><td>10.10</td><td>11.30</td><td>12.50</td></tr><tr><td>60</td><td>14.50</td><td>16.20</td><td>17.90</td></tr><tr><td>80</td><td>18.90</td><td>21.10</td><td>23.40</td></tr><tr><td>100</td><td>23.30</td><td>26.10</td><td>28.80</td></tr><tr><td>110</td><td>25.50</td><td>28.50</td><td>31.50</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Ration [%]	Input Power [W]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0	1.00	1.20	1.40	20	5.60	6.30	7.00	40	10.10	11.30	12.50	60	14.50	16.20	17.90	80	18.90	21.10	23.40	100	23.30	26.10	28.80	110	25.50	28.50	31.50	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Ration [%]	Input Power [W]																																																									
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																							
0	1.00	1.20	1.40																																																							
20	5.60	6.30	7.00																																																							
40	10.10	11.30	12.50																																																							
60	14.50	16.20	17.90																																																							
80	18.90	21.10	23.40																																																							
100	23.30	26.10	28.80																																																							
110	25.50	28.50	31.50																																																							
--	-	-	-																																																							
--	-	-	-																																																							
--	-	-	-																																																							
--	-	-	-																																																							

Model	G2W-15																																		
Item	Efficiency (by Input Voltage)	Temperature	25°C																																
Object		Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div> <div><div>—</div><div>△</div><div>—</div></div> <div>Load 100%</div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>85</td><td>64.9</td><td>68.4</td></tr><tr><td>90</td><td>61.2</td><td>64.5</td></tr><tr><td>100</td><td>54.5</td><td>57.6</td></tr><tr><td>110</td><td>49.5</td><td>52.2</td></tr><tr><td>115</td><td>47.0</td><td>49.8</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></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	85	64.9	68.4	90	61.2	64.5	100	54.5	57.6	110	49.5	52.2	115	47.0	49.8	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Efficiency [%]																																		
	Load 50%	Load 100%																																	
85	64.9	68.4																																	
90	61.2	64.5																																	
100	54.5	57.6																																	
110	49.5	52.2																																	
115	47.0	49.8																																	
--	-	-																																	
--	-	-																																	
--	-	-																																	
--	-	-																																	

COSEL

Model		G2W-15		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<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> <div><div>Efficiency [%]</div><div>Load Ration [%]</div></div>		2.Values																																																				
		<table><tr><th rowspan="2">Load Ration [%]</th><th colspan="3">Efficiency [%]</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</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20</td><td>53.8</td><td>47.9</td><td>43.1</td></tr><tr><td>40</td><td>59.6</td><td>53.3</td><td>48.2</td></tr><tr><td>60</td><td>62.2</td><td>55.7</td><td>50.4</td></tr><tr><td>80</td><td>63.6</td><td>57.0</td><td>51.4</td></tr><tr><td>100</td><td>64.5</td><td>57.6</td><td>52.2</td></tr><tr><td>110</td><td>64.9</td><td>58.0</td><td>52.5</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>				Load Ration [%]	Efficiency [%]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0	-	-	-	20	53.8	47.9	43.1	40	59.6	53.3	48.2	60	62.2	55.7	50.4	80	63.6	57.0	51.4	100	64.5	57.6	52.2	110	64.9	58.0	52.5	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Ration [%]	Efficiency [%]																																																							
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																					
0	-	-	-																																																					
20	53.8	47.9	43.1																																																					
40	59.6	53.3	48.2																																																					
60	62.2	55.7	50.4																																																					
80	63.6	57.0	51.4																																																					
100	64.5	57.6	52.2																																																					
110	64.9	58.0	52.5																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					

-

4

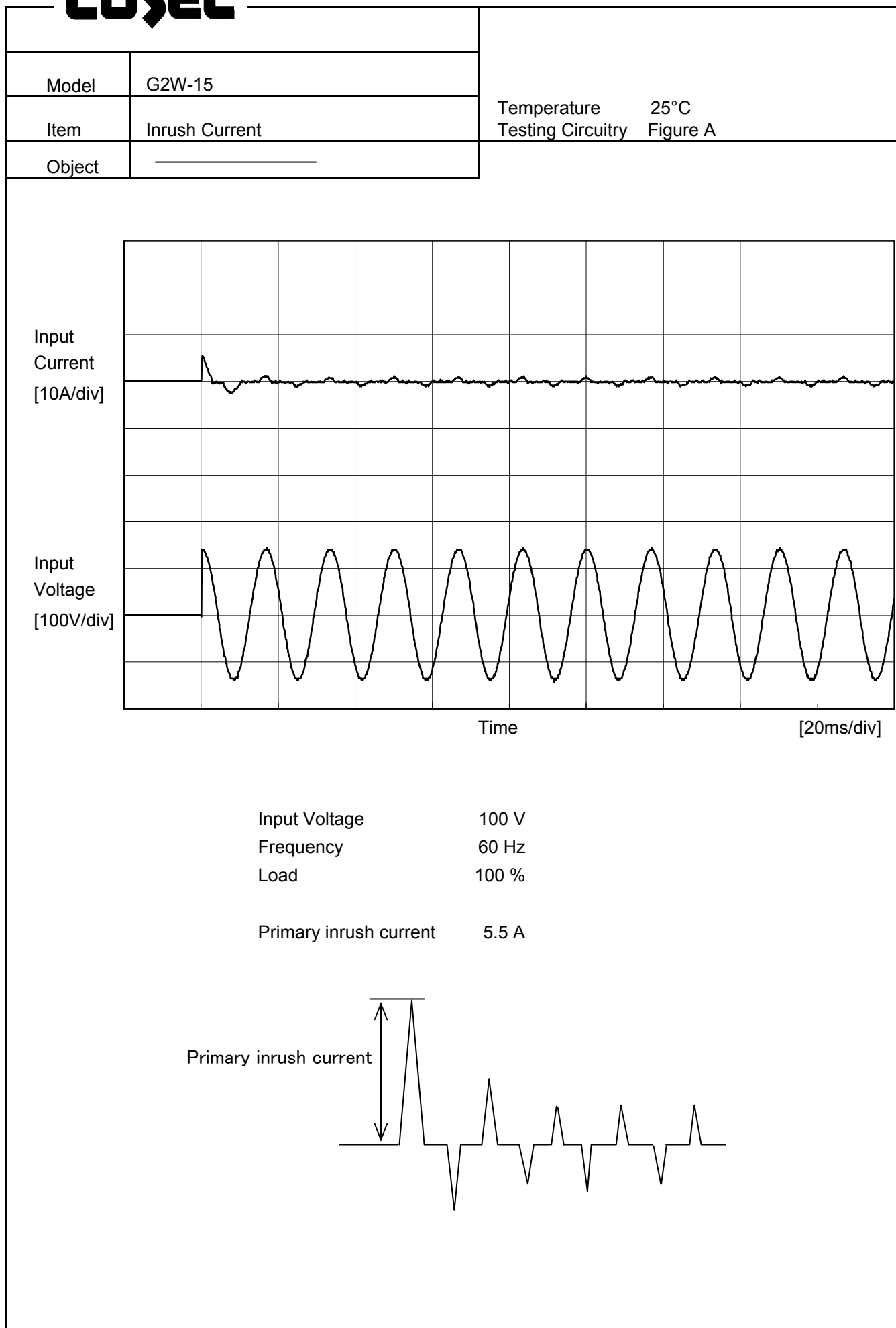
-

BC-10214

COSEL

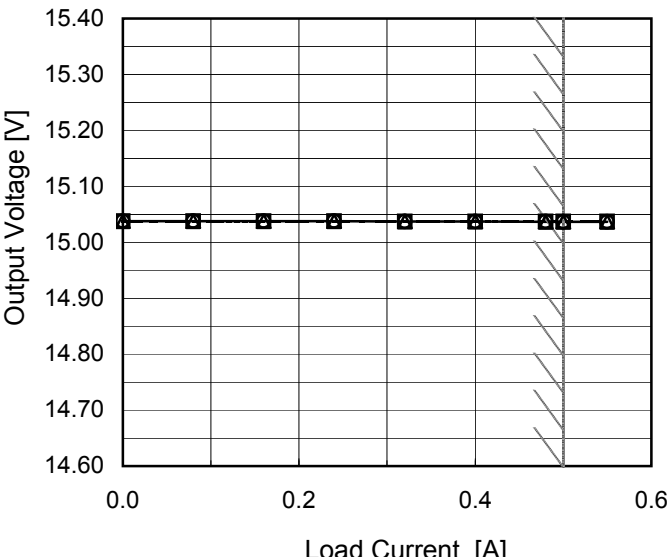
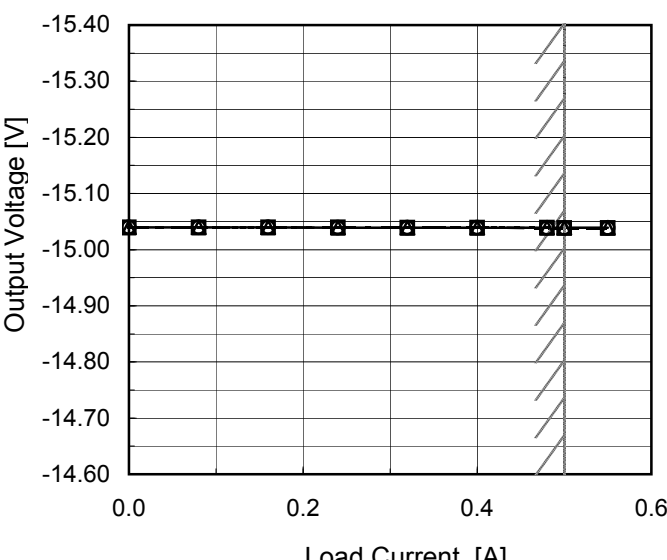
Model	G2W-15																																
Item	Power Factor (by Input Voltage)	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object																																	
1.Graph		2.Values																															
<div><div><div>---□---</div><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%</th><th>Load 100%</th></tr></thead><tbody><tr><td>85</td><td>0.695</td><td>0.761</td></tr><tr><td>90</td><td>0.687</td><td>0.754</td></tr><tr><td>100</td><td>0.680</td><td>0.744</td></tr><tr><td>110</td><td>0.670</td><td>0.733</td></tr><tr><td>115</td><td>0.667</td><td>0.729</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> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Load 50%	Load 100%	85	0.695	0.761	90	0.687	0.754	100	0.680	0.744	110	0.670	0.733	115	0.667	0.729	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Load 50%	Load 100%																															
85	0.695	0.761																															
90	0.687	0.754																															
100	0.680	0.744																															
110	0.670	0.733																															
115	0.667	0.729																															
--	-	-																															
--	-	-																															
--	-	-																															
--	-	-																															
		</																															

Model	G2W-15																																																					
Item	Power Factor (by Load Current)	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	_____																																																					
1.Graph		2.Values																																																				
<div><div>—△— Input Volt. 90V</div><div>---□--- Input Volt. 100V</div><div>-·-○-·- Input Volt. 110V</div></div> <p>Power Factor</p> <p>Load Ration [%]</p>		<table><tr><th rowspan="2">Load Ration [%]</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</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20</td><td>0.622</td><td>0.618</td><td>0.609</td></tr><tr><td>40</td><td>0.669</td><td>0.661</td><td>0.651</td></tr><tr><td>60</td><td>0.704</td><td>0.692</td><td>0.683</td></tr><tr><td>80</td><td>0.730</td><td>0.718</td><td>0.711</td></tr><tr><td>100</td><td>0.752</td><td>0.744</td><td>0.733</td></tr><tr><td>110</td><td>0.763</td><td>0.752</td><td>0.743</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Ration [%]	Power Factor			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0	-	-	-	20	0.622	0.618	0.609	40	0.669	0.661	0.651	60	0.704	0.692	0.683	80	0.730	0.718	0.711	100	0.752	0.744	0.733	110	0.763	0.752	0.743	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Ration [%]	Power Factor																																																					
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																			
0	-	-	-																																																			
20	0.622	0.618	0.609																																																			
40	0.669	0.661	0.651																																																			
60	0.704	0.692	0.683																																																			
80	0.730	0.718	0.711																																																			
100	0.752	0.744	0.733																																																			
110	0.763	0.752	0.743																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			



Model	G2W-15																																
Item	Line Regulation	Temperature	25°C																														
Object	+15V0.5A	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>15.037</td><td>15.037</td></tr><tr><td>90</td><td>15.037</td><td>15.037</td></tr><tr><td>100</td><td>15.037</td><td>15.037</td></tr><tr><td>110</td><td>15.037</td><td>15.037</td></tr><tr><td>115</td><td>15.037</td><td>15.037</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	15.037	15.037	90	15.037	15.037	100	15.037	15.037	110	15.037	15.037	115	15.037	15.037	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																															
85	15.037	15.037																															
90	15.037	15.037																															
100	15.037	15.037																															
110	15.037	15.037																															
115	15.037	15.037																															
--	-	-																															
--	-	-																															
--	-	-																															
--	-	-																															
Object	-15V0.5A																																
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>-15.040</td><td>-15.039</td></tr><tr><td>90</td><td>-15.040</td><td>-15.039</td></tr><tr><td>100</td><td>-15.040</td><td>-15.039</td></tr><tr><td>110</td><td>-15.040</td><td>-15.039</td></tr><tr><td>115</td><td>-15.040</td><td>-15.039</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	-15.040	-15.039	90	-15.040	-15.039	100	-15.040	-15.039	110	-15.040	-15.039	115	-15.040	-15.039	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																															
85	-15.040	-15.039																															
90	-15.040	-15.039																															
100	-15.040	-15.039																															
110	-15.040	-15.039																															
115	-15.040	-15.039																															
--	-	-																															
--	-	-																															
--	-	-																															
--	-	-																															
Note: Slanted line shows the range of the rated input voltage.																																	



Model	G2W-15	Temperature 25°C Testing Circuitry Figure A																																																				
Item	Load Regulation																																																					
Object	+15V0.5A																																																					
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>Input Volt. 90V Input Volt. 100V Input Volt. 110V</div></div> 		<table><tr><th rowspan="2">Load Current [A]</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>0.00</td><td>15.038</td><td>15.038</td><td>15.038</td></tr><tr><td>0.08</td><td>15.038</td><td>15.038</td><td>15.038</td></tr><tr><td>0.16</td><td>15.038</td><td>15.038</td><td>15.038</td></tr><tr><td>0.24</td><td>15.038</td><td>15.038</td><td>15.038</td></tr><tr><td>0.32</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>0.40</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>0.48</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>0.50</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>0.55</td><td>15.037</td><td>15.037</td><td>15.037</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. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	15.038	15.038	15.038	0.08	15.038	15.038	15.038	0.16	15.038	15.038	15.038	0.24	15.038	15.038	15.038	0.32	15.037	15.037	15.037	0.40	15.037	15.037	15.037	0.48	15.037	15.037	15.037	0.50	15.037	15.037	15.037	0.55	15.037	15.037	15.037	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																			
0.00	15.038	15.038	15.038																																																			
0.08	15.038	15.038	15.038																																																			
0.16	15.038	15.038	15.038																																																			
0.24	15.038	15.038	15.038																																																			
0.32	15.037	15.037	15.037																																																			
0.40	15.037	15.037	15.037																																																			
0.48	15.037	15.037	15.037																																																			
0.50	15.037	15.037	15.037																																																			
0.55	15.037	15.037	15.037																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Object	-15V0.5A																																																					
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>Input Volt. 90V Input Volt. 100V Input Volt. 110V</div></div> 		<table><tr><th rowspan="2">Load Current [A]</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>0.00</td><td>-15.040</td><td>-15.040</td><td>-15.040</td></tr><tr><td>0.08</td><td>-15.040</td><td>-15.040</td><td>-15.040</td></tr><tr><td>0.16</td><td>-15.040</td><td>-15.039</td><td>-15.040</td></tr><tr><td>0.24</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>0.32</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>0.40</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>0.48</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>0.50</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>0.55</td><td>-15.039</td><td>-15.039</td><td>-15.039</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. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	-15.040	-15.040	-15.040	0.08	-15.040	-15.040	-15.040	0.16	-15.040	-15.039	-15.040	0.24	-15.039	-15.039	-15.039	0.32	-15.039	-15.039	-15.039	0.40	-15.039	-15.039	-15.039	0.48	-15.039	-15.039	-15.039	0.50	-15.039	-15.039	-15.039	0.55	-15.039	-15.039	-15.039	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																			
0.00	-15.040	-15.040	-15.040																																																			
0.08	-15.040	-15.040	-15.040																																																			
0.16	-15.040	-15.039	-15.040																																																			
0.24	-15.039	-15.039	-15.039																																																			
0.32	-15.039	-15.039	-15.039																																																			
0.40	-15.039	-15.039	-15.039																																																			
0.48	-15.039	-15.039	-15.039																																																			
0.50	-15.039	-15.039	-15.039																																																			
0.55	-15.039	-15.039	-15.039																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note: Slanted line shows the range of the rated load current.																																																						

-9-

BC-10214



Model	G2W-15		
Item	Dynamic Load Response	Temperature Testing Circuitry	25°C Figure A
Object	+15V0.5A		

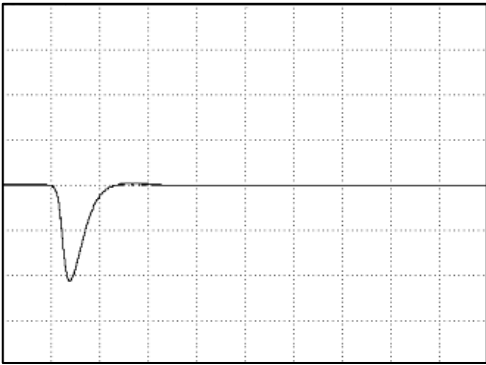
Input Volt. 100 V
Cycle 1000 ms

Load Current

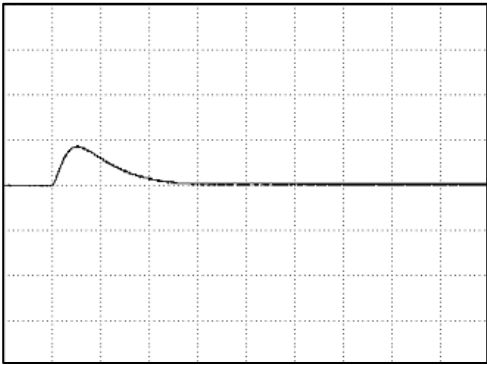


Min. Load (0A) ←→
Load 100% (0.5A)

50 mV/div



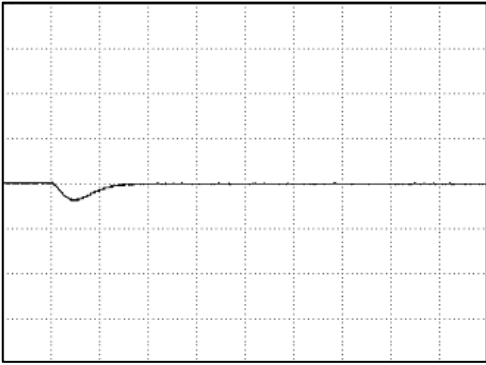
100 μ s/div



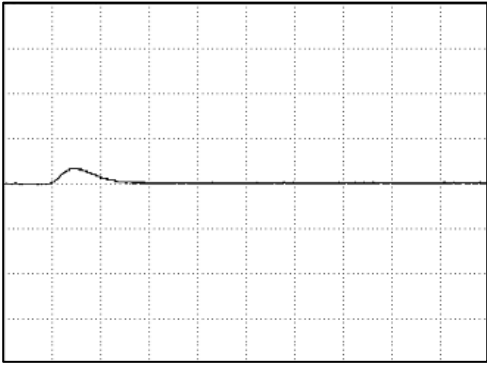
100 μ s/div

Load 50% (0.25A) ←→
Load 100% (0.5A)

50 mV/div



100 μ s/div



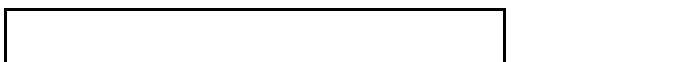
100 μ s/div



Model	G2W-15		
Item	Dynamic Load Response	Temperature	25°C
Object	-15V0.5A	Testing Circuitry	Figure A

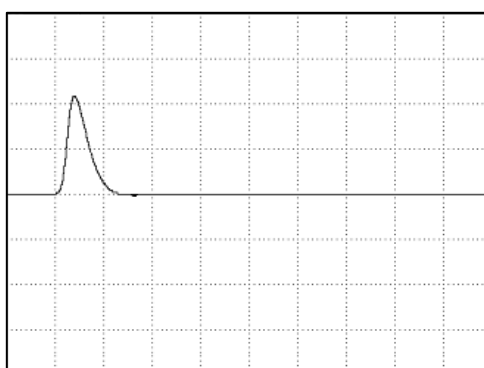
Input Volt. 100 V
Cycle 1000 ms

Load Current

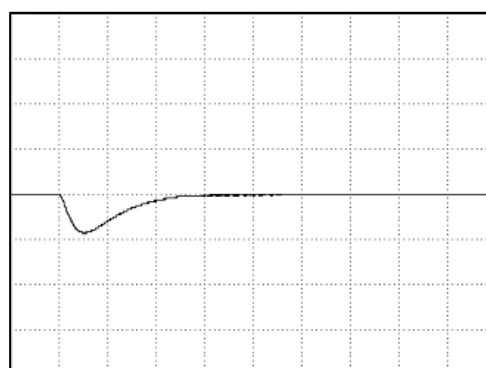


Min. Load (0A) ←→
Load 100% (0.5A)

50 mV/div



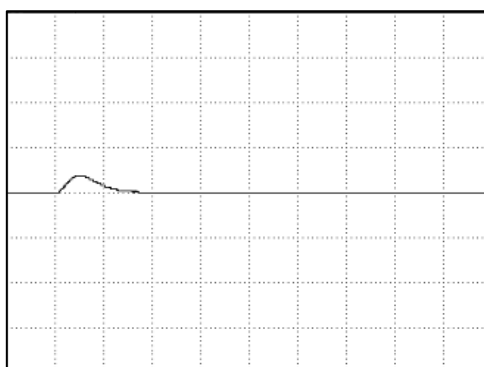
100 μ s/div



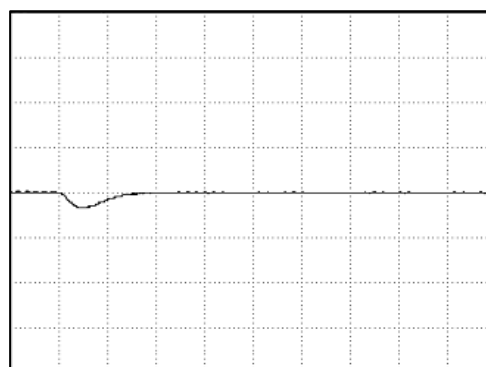
100 μ s/div

Load 50% (0.25A) ←→
Load 100% (0.5A)

50 mV/div



100 μ s/div



100 μ s/div

Model	G2W-15																																											
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																									
		Testing Circuitry	Figure A																																									
Object	+15V0.5A																																											
1.Graph		2.Values																																										
<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>Ripple Voltage [mV]</p> <p>Load Current [A]</p> <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>0.00</td><td>0.9</td><td>0.9</td></tr><tr><td>0.25</td><td>0.9</td><td>0.9</td></tr><tr><td>0.50</td><td>0.9</td><td>0.9</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]	0.00	0.9	0.9	0.25	0.9	0.9	0.50	0.9	0.9	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																											
	Input Volt. 90 [V]	Input Volt. 110 [V]																																										
0.00	0.9	0.9																																										
0.25	0.9	0.9																																										
0.50	0.9	0.9																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										

- 12 -

BC-10214

Model	G2W-15	Temperature 25°C Testing Circuitry Figure A																																										
Item	Ripple Voltage (by Load Current)																																											
Object	-15V0.5A																																											
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> <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>0.00</td><td>0.8</td><td>0.8</td></tr><tr><td>0.25</td><td>0.8</td><td>0.8</td></tr><tr><td>0.50</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]	0.00	0.8	0.8	0.25	0.8	0.8	0.50	0.8	0.8	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																											
	Input Volt. 90 [V]	Input Volt. 110 [V]																																										
0.00	0.8	0.8																																										
0.25	0.8	0.8																																										
0.50	0.8	0.8																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										
--	-	-																																										

- 13 -

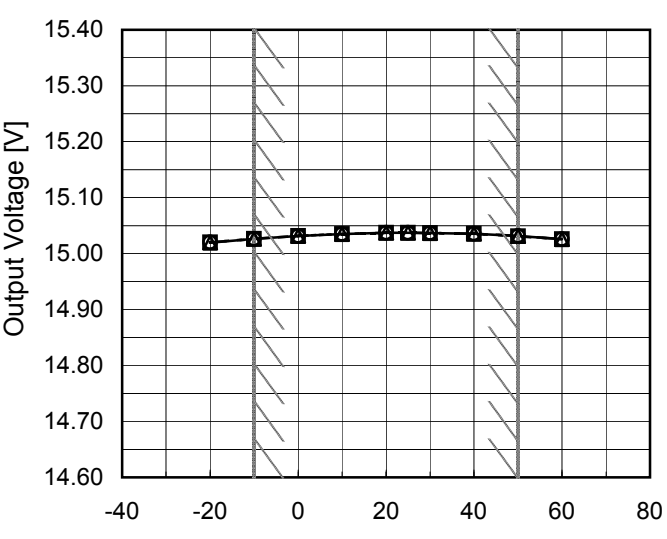
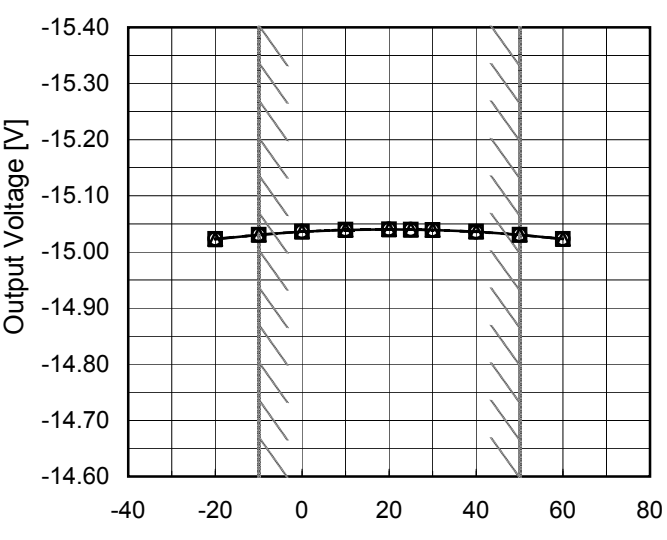
BC-10214

Model	G2W-15																																									
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure A																																								
Object	+15V0.5A																																									
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>Ambient Temperature [°C]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>-20</td><td>1.1</td><td>1.1</td></tr><tr><td>-10</td><td>1.0</td><td>1.0</td></tr><tr><td>25</td><td>0.9</td><td>0.9</td></tr><tr><td>50</td><td>0.9</td><td>0.9</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></tbody></table>		Ambient Temperature [°C]	Load 50%	Load 100%	-20	1.1	1.1	-10	1.0	1.0	25	0.9	0.9	50	0.9	0.9	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-		
Ambient Temperature [°C]	Load 50%	Load 100%																																								
-20	1.1	1.1																																								
-10	1.0	1.0																																								
25	0.9	0.9																																								
50	0.9	0.9																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
Input Volt. 100V																																										

Object	-15V0.5A																																									
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>Ambient Temperature [°C]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>-20</td><td>1.0</td><td>1.0</td></tr><tr><td>-10</td><td>0.9</td><td>0.9</td></tr><tr><td>25</td><td>0.8</td><td>0.8</td></tr><tr><td>50</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></tbody></table>		Ambient Temperature [°C]	Load 50%	Load 100%	-20	1.0	1.0	-10	0.9	0.9	25	0.8	0.8	50	0.8	0.8	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-		
Ambient Temperature [°C]	Load 50%	Load 100%																																								
-20	1.0	1.0																																								
-10	0.9	0.9																																								
25	0.8	0.8																																								
50	0.8	0.8																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
--	-	-																																								
Input Volt. 100V																																										
Measured by 20 MHz Oscilloscope.																																										
Note: Slanted line shows the range of the rated ambient temperature.																																										

- 14 -

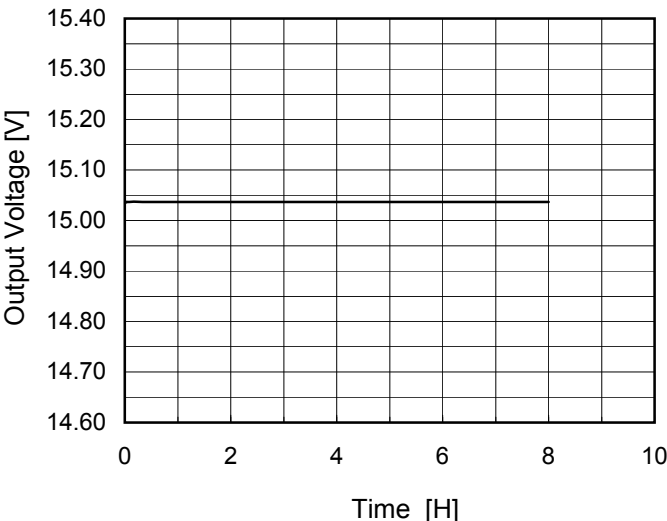
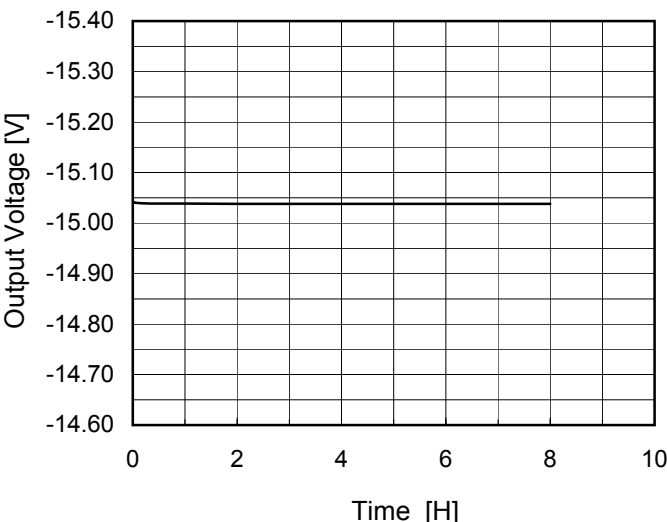
BC-10214

Model	G2W-15																																																						
Item	Ambient Temperature Drift	Testing Circuitry Figure A																																																					
Object	+15V0.5A																																																						
1.Graph		2.Values																																																					
<div><div>—△—</div>Input Volt. 90V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 110V</div> 		<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>15.020</td><td>15.020</td><td>15.020</td></tr><tr><td>-10</td><td>15.026</td><td>15.026</td><td>15.027</td></tr><tr><td>0</td><td>15.031</td><td>15.031</td><td>15.031</td></tr><tr><td>10</td><td>15.035</td><td>15.035</td><td>15.035</td></tr><tr><td>20</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>25</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>30</td><td>15.037</td><td>15.037</td><td>15.037</td></tr><tr><td>40</td><td>15.035</td><td>15.035</td><td>15.035</td></tr><tr><td>50</td><td>15.031</td><td>15.031</td><td>15.031</td></tr><tr><td>60</td><td>15.026</td><td>15.026</td><td>15.026</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	15.020	15.020	15.020	-10	15.026	15.026	15.027	0	15.031	15.031	15.031	10	15.035	15.035	15.035	20	15.037	15.037	15.037	25	15.037	15.037	15.037	30	15.037	15.037	15.037	40	15.035	15.035	15.035	50	15.031	15.031	15.031	60	15.026	15.026	15.026	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																				
-20	15.020	15.020	15.020																																																				
-10	15.026	15.026	15.027																																																				
0	15.031	15.031	15.031																																																				
10	15.035	15.035	15.035																																																				
20	15.037	15.037	15.037																																																				
25	15.037	15.037	15.037																																																				
30	15.037	15.037	15.037																																																				
40	15.035	15.035	15.035																																																				
50	15.031	15.031	15.031																																																				
60	15.026	15.026	15.026																																																				
--	-	-	-																																																				
		Load 100%																																																					
Object	-15V0.5A																																																						
1.Graph		2.Values																																																					
<div><div>—△—</div>Input Volt. 90V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 110V</div> 		<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>-15.023</td><td>-15.023</td><td>-15.023</td></tr><tr><td>-10</td><td>-15.030</td><td>-15.030</td><td>-15.030</td></tr><tr><td>0</td><td>-15.036</td><td>-15.036</td><td>-15.036</td></tr><tr><td>10</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>20</td><td>-15.040</td><td>-15.040</td><td>-15.040</td></tr><tr><td>25</td><td>-15.040</td><td>-15.040</td><td>-15.040</td></tr><tr><td>30</td><td>-15.039</td><td>-15.039</td><td>-15.039</td></tr><tr><td>40</td><td>-15.036</td><td>-15.036</td><td>-15.036</td></tr><tr><td>50</td><td>-15.031</td><td>-15.030</td><td>-15.030</td></tr><tr><td>60</td><td>-15.023</td><td>-15.023</td><td>-15.023</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	-15.023	-15.023	-15.023	-10	-15.030	-15.030	-15.030	0	-15.036	-15.036	-15.036	10	-15.039	-15.039	-15.039	20	-15.040	-15.040	-15.040	25	-15.040	-15.040	-15.040	30	-15.039	-15.039	-15.039	40	-15.036	-15.036	-15.036	50	-15.031	-15.030	-15.030	60	-15.023	-15.023	-15.023	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																				
-20	-15.023	-15.023	-15.023																																																				
-10	-15.030	-15.030	-15.030																																																				
0	-15.036	-15.036	-15.036																																																				
10	-15.039	-15.039	-15.039																																																				
20	-15.040	-15.040	-15.040																																																				
25	-15.040	-15.040	-15.040																																																				
30	-15.039	-15.039	-15.039																																																				
40	-15.036	-15.036	-15.036																																																				
50	-15.031	-15.030	-15.030																																																				
60	-15.023	-15.023	-15.023																																																				
--	-	-	-																																																				
Note: Slanted line shows the range of the rated ambient temperature.																																																							

- 15 -

BC-10214

COSEL

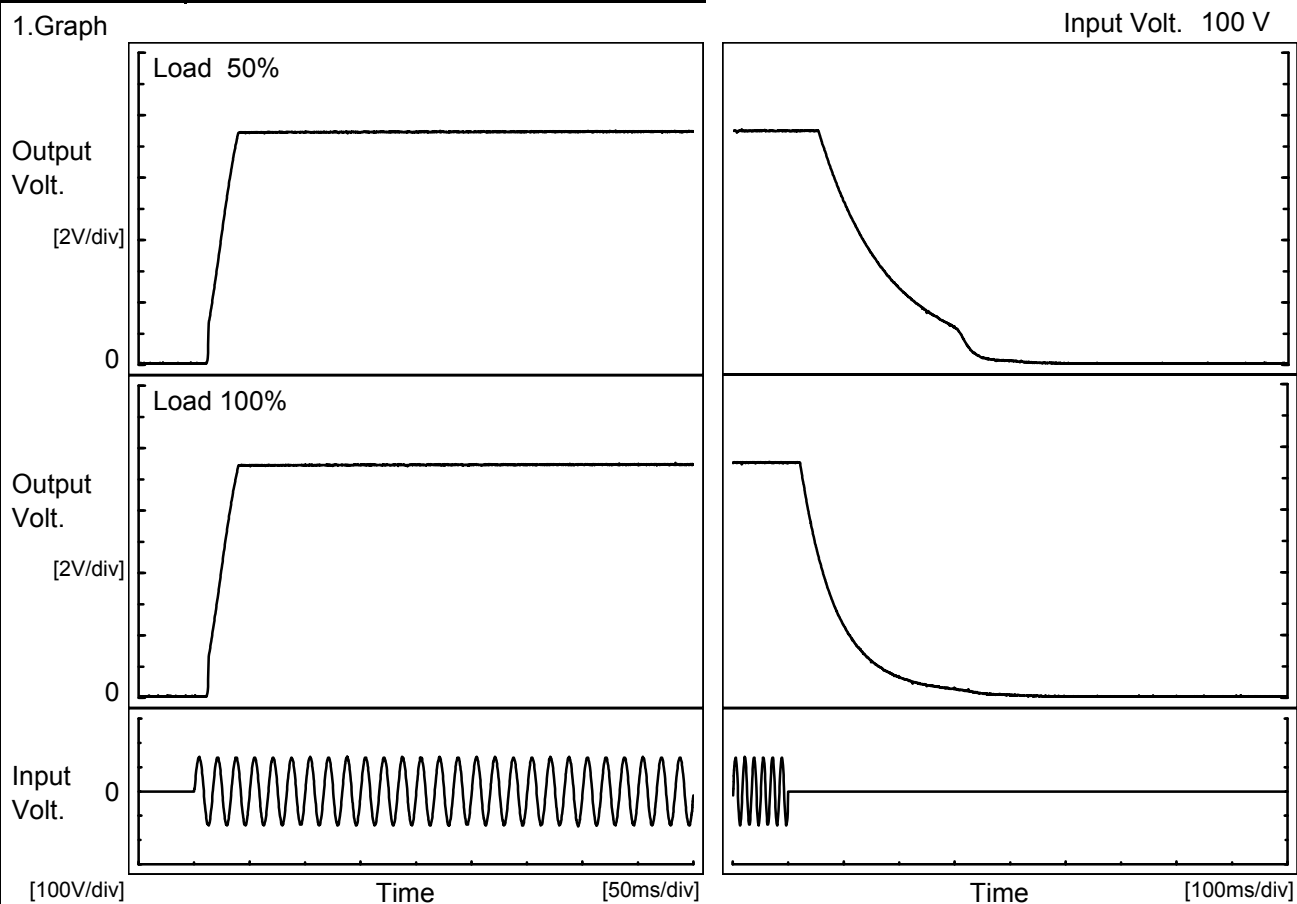
Model	G2W-15																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+15V0.5A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Input Volt. 100V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.036</td></tr><tr><td>0.5</td><td>15.037</td></tr><tr><td>1.0</td><td>15.037</td></tr><tr><td>2.0</td><td>15.037</td></tr><tr><td>3.0</td><td>15.037</td></tr><tr><td>4.0</td><td>15.037</td></tr><tr><td>5.0</td><td>15.037</td></tr><tr><td>6.0</td><td>15.037</td></tr><tr><td>7.0</td><td>15.037</td></tr><tr><td>8.0</td><td>15.037</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.036	0.5	15.037	1.0	15.037	2.0	15.037	3.0	15.037	4.0	15.037	5.0	15.037	6.0	15.037	7.0	15.037	8.0	15.037
Time since start [H]	Output Voltage [V]																								
0.0	15.036																								
0.5	15.037																								
1.0	15.037																								
2.0	15.037																								
3.0	15.037																								
4.0	15.037																								
5.0	15.037																								
6.0	15.037																								
7.0	15.037																								
8.0	15.037																								
Object	-15V0.5A																								
1.Graph		2.Values																							
<div><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>-15.040</td></tr><tr><td>0.5</td><td>-15.039</td></tr><tr><td>1.0</td><td>-15.038</td></tr><tr><td>2.0</td><td>-15.038</td></tr><tr><td>3.0</td><td>-15.038</td></tr><tr><td>4.0</td><td>-15.038</td></tr><tr><td>5.0</td><td>-15.038</td></tr><tr><td>6.0</td><td>-15.038</td></tr><tr><td>7.0</td><td>-15.038</td></tr><tr><td>8.0</td><td>-15.038</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-15.040	0.5	-15.039	1.0	-15.038	2.0	-15.038	3.0	-15.038	4.0	-15.038	5.0	-15.038	6.0	-15.038	7.0	-15.038	8.0	-15.038
Time since start [H]	Output Voltage [V]																								
0.0	-15.040																								
0.5	-15.039																								
1.0	-15.038																								
2.0	-15.038																								
3.0	-15.038																								
4.0	-15.038																								
5.0	-15.038																								
6.0	-15.038																								
7.0	-15.038																								
8.0	-15.038																								

- 17 -

BC-10214

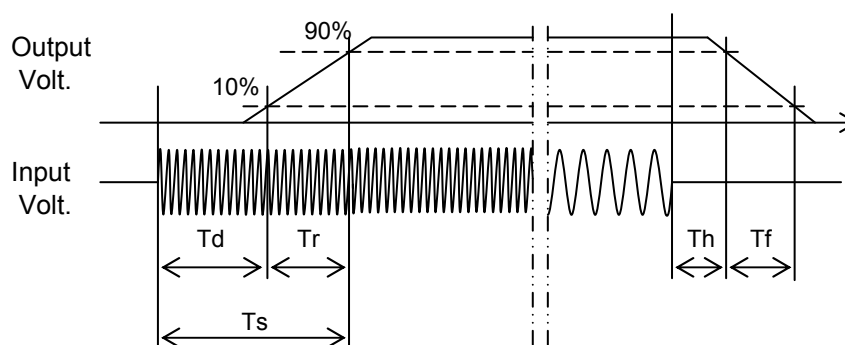
Model	G2W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.5A		

1.Graph



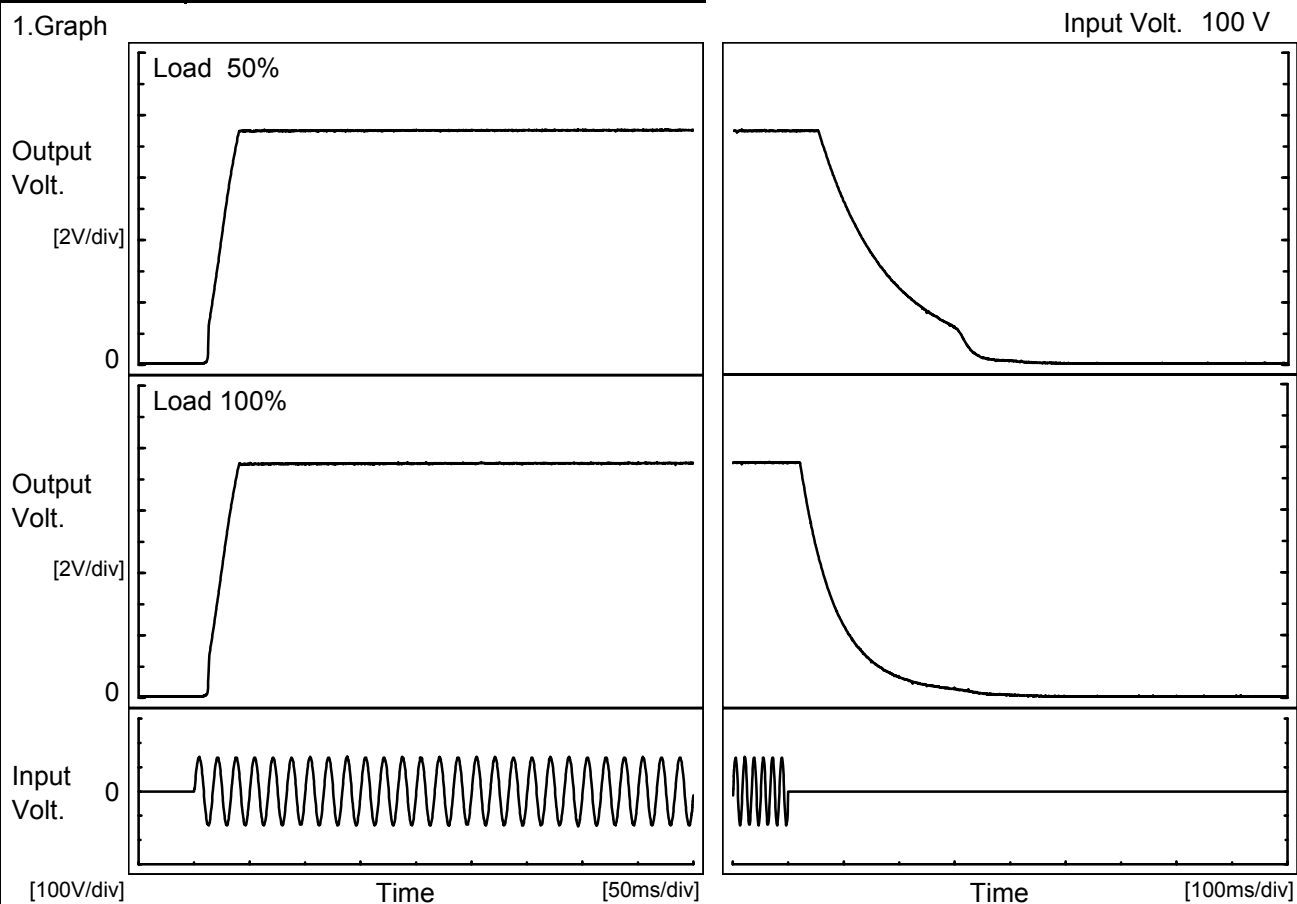
2.Values

Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		13.0	23.3	36.3	65.5	250.0
100 %		13.0	23.3	36.3	27.5	156.5



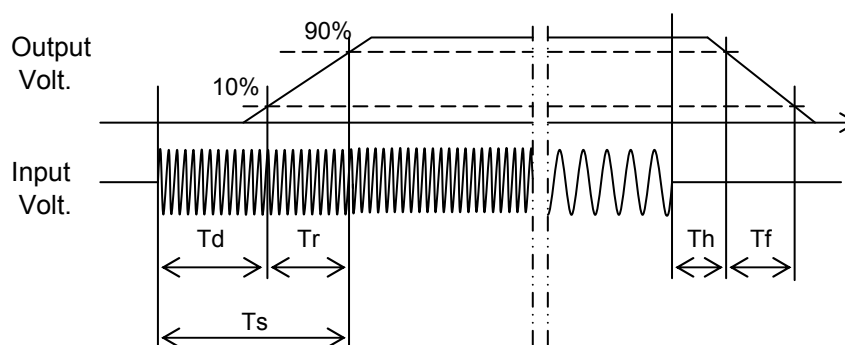
Model	G2W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.5A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	13.0	23.8	36.8	65.5	261.5
100 %	13.3	23.5	36.8	27.0	155.5



COSEL

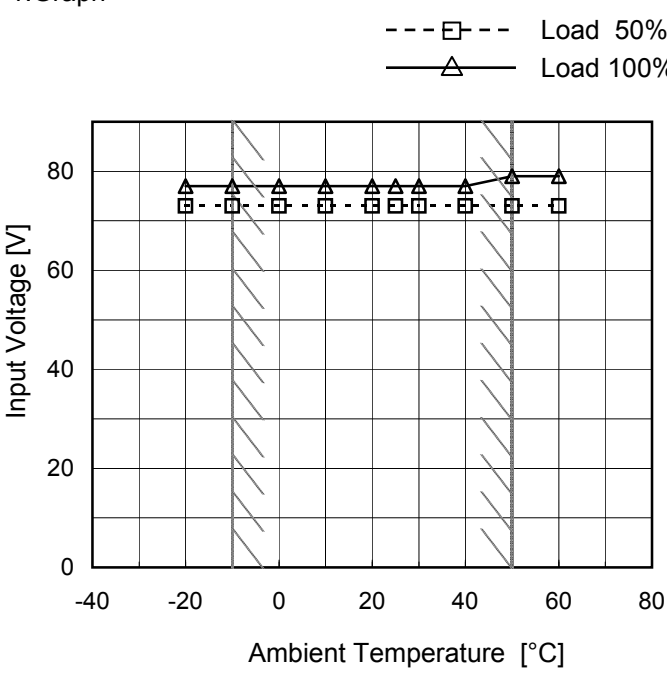
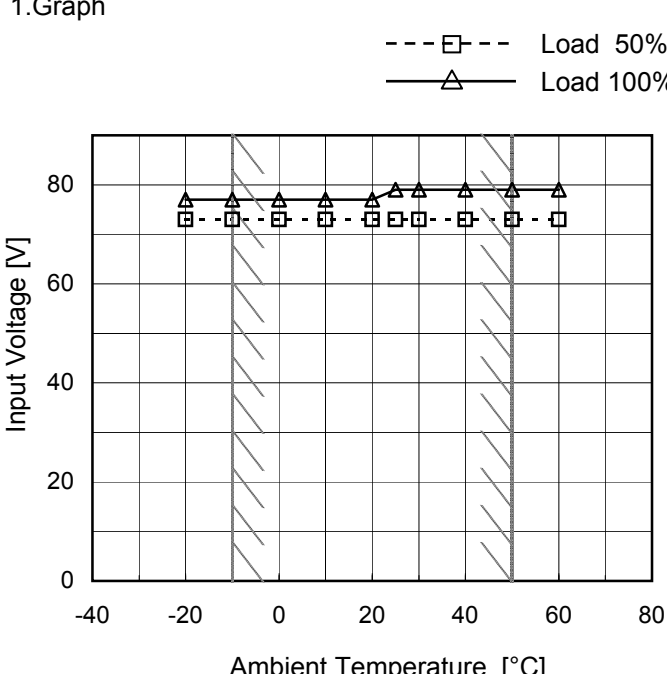
Model	G2W-15																																
Item	Hold-Up Time	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+15V0.5A																																
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>The graph shows the hold-up time in milliseconds on a logarithmic y-axis (1 to 1000) against the input voltage in volts 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 of hold-up time with increasing input voltage. 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>25</td><td>7</td></tr><tr><td>90</td><td>34</td><td>12</td></tr><tr><td>100</td><td>55</td><td>22</td></tr><tr><td>110</td><td>75</td><td>32</td></tr><tr><td>115</td><td>85</td><td>37</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	25	7	90	34	12	100	55	22	110	75	32	115	85	37	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
85	25	7																															
90	34	12																															
100	55	22																															
110	75	32																															
115	85	37																															
--	-	-																															
--	-	-																															
--	-	-																															
--	-	-																															
<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	G2W-15																																
Item	Hold-Up Time	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	-15V0.5A																																
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>85</td><td>24</td><td>7</td></tr><tr><td>90</td><td>34</td><td>11</td></tr><tr><td>100</td><td>54</td><td>21</td></tr><tr><td>110</td><td>74</td><td>31</td></tr><tr><td>115</td><td>84</td><td>37</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> <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>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	85	24	7	90	34	11	100	54	21	110	74	31	115	84	37	--	-	-	--	-	-	--	-	-	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
85	24	7																															
90	34	11																															
100	54	21																															
110	74	31																															
115	84	37																															
--	-	-																															
--	-	-																															
--	-	-																															
--	-	-																															

Model	G2W-15																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	+15V0.5A																																																					
1.Graph		2.Values																																																				
<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>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. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>0.000</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.080</td><td>120</td><td>179</td><td>240</td></tr><tr><td>0.160</td><td>54</td><td>88</td><td>119</td></tr><tr><td>0.240</td><td>24</td><td>55</td><td>77</td></tr><tr><td>0.320</td><td>21</td><td>40</td><td>56</td></tr><tr><td>0.400</td><td>18</td><td>23</td><td>40</td></tr><tr><td>0.480</td><td>6</td><td>21</td><td>34</td></tr><tr><td>0.500</td><td>5</td><td>21</td><td>24</td></tr><tr><td>0.550</td><td>5</td><td>20</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></table>		Load Current [A]	Time [ms]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.000	-	-	-	0.080	120	179	240	0.160	54	88	119	0.240	24	55	77	0.320	21	40	56	0.400	18	23	40	0.480	6	21	34	0.500	5	21	24	0.550	5	20	23	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																			
0.000	-	-	-																																																			
0.080	120	179	240																																																			
0.160	54	88	119																																																			
0.240	24	55	77																																																			
0.320	21	40	56																																																			
0.400	18	23	40																																																			
0.480	6	21	34																																																			
0.500	5	21	24																																																			
0.550	5	20	23																																																			
--	-	-	-																																																			
--	-	-	-																																																			

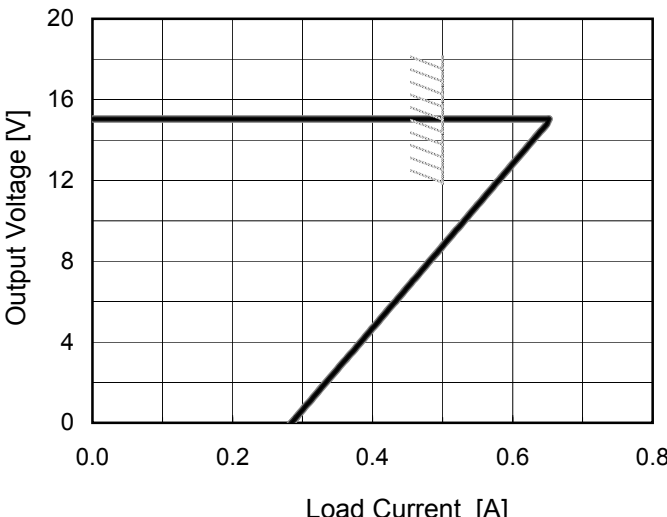
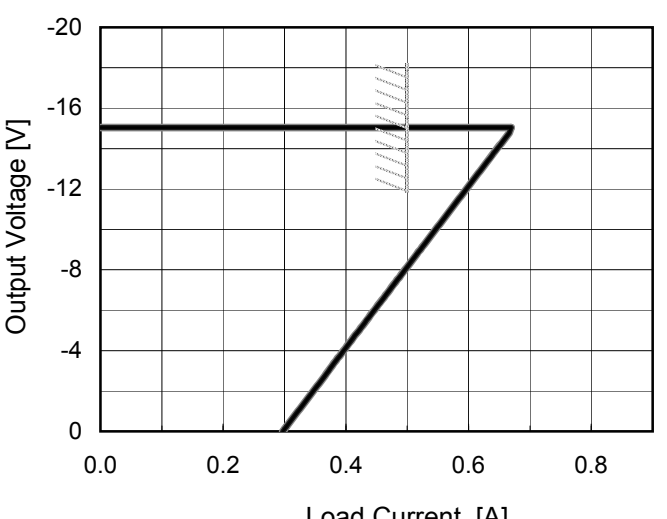
Model	G2W-15																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	-15V0.5A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<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> <div>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div> <div>Note: Slanted line shows the range of the rated load current.</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>0.000</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.080</td><td>118</td><td>177</td><td>236</td></tr><tr><td>0.160</td><td>54</td><td>86</td><td>118</td></tr><tr><td>0.240</td><td>24</td><td>55</td><td>76</td></tr><tr><td>0.320</td><td>21</td><td>38</td><td>55</td></tr><tr><td>0.400</td><td>17</td><td>23</td><td>40</td></tr><tr><td>0.480</td><td>5</td><td>21</td><td>33</td></tr><tr><td>0.500</td><td>5</td><td>21</td><td>24</td></tr><tr><td>0.550</td><td>5</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></table>		Load Current [A]	Time [ms]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.000	-	-	-	0.080	118	177	236	0.160	54	86	118	0.240	24	55	76	0.320	21	38	55	0.400	17	23	40	0.480	5	21	33	0.500	5	21	24	0.550	5	19	23	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																			
0.000	-	-	-																																																			
0.080	118	177	236																																																			
0.160	54	86	118																																																			
0.240	24	55	76																																																			
0.320	21	38	55																																																			
0.400	17	23	40																																																			
0.480	5	21	33																																																			
0.500	5	21	24																																																			
0.550	5	19	23																																																			
--	-	-	-																																																			
--	-	-	-																																																			

Model	G2W-15	Testing Circuitry Figure A																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																								
Object	+15V0.5A																																								
1.Graph		2.Values																																							
<div><div><div></div><div></div></div><div><div></div><div></div></div></div> 		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>73</td><td>77</td></tr><tr><td>-10</td><td>73</td><td>77</td></tr><tr><td>0</td><td>73</td><td>77</td></tr><tr><td>10</td><td>73</td><td>77</td></tr><tr><td>20</td><td>73</td><td>77</td></tr><tr><td>25</td><td>73</td><td>77</td></tr><tr><td>30</td><td>73</td><td>77</td></tr><tr><td>40</td><td>73</td><td>77</td></tr><tr><td>50</td><td>73</td><td>79</td></tr><tr><td>60</td><td>73</td><td>79</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	73	77	-10	73	77	0	73	77	10	73	77	20	73	77	25	73	77	30	73	77	40	73	77	50	73	79	60	73	79	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
	Load 50%	Load 100%																																							
-20	73	77																																							
-10	73	77																																							
0	73	77																																							
10	73	77																																							
20	73	77																																							
25	73	77																																							
30	73	77																																							
40	73	77																																							
50	73	79																																							
60	73	79																																							
--	-	-																																							
Object	-15V0.5A																																								
1.Graph		2.Values																																							
<div><div><div></div><div></div></div><div><div></div><div></div></div></div> 		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>73</td><td>77</td></tr><tr><td>-10</td><td>73</td><td>77</td></tr><tr><td>0</td><td>73</td><td>77</td></tr><tr><td>10</td><td>73</td><td>77</td></tr><tr><td>20</td><td>73</td><td>77</td></tr><tr><td>25</td><td>73</td><td>79</td></tr><tr><td>30</td><td>73</td><td>79</td></tr><tr><td>40</td><td>73</td><td>79</td></tr><tr><td>50</td><td>73</td><td>79</td></tr><tr><td>60</td><td>73</td><td>79</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	73	77	-10	73	77	0	73	77	10	73	77	20	73	77	25	73	79	30	73	79	40	73	79	50	73	79	60	73	79	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
	Load 50%	Load 100%																																							
-20	73	77																																							
-10	73	77																																							
0	73	77																																							
10	73	77																																							
20	73	77																																							
25	73	79																																							
30	73	79																																							
40	73	79																																							
50	73	79																																							
60	73	79																																							
--	-	-																																							
Note: Slanted line shows the range of the rated ambient temperature.																																									

- 24 -

BC-10214

COSEL

Model	G2W-15																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V0.5A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div></div>Input Volt. 90V</div> <div><div></div>Input Volt. 100V</div> <div><div></div>Input Volt. 110V</div> 		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>15.0</td><td>0.65</td><td>0.65</td><td>0.65</td></tr><tr><td>14.3</td><td>0.64</td><td>0.64</td><td>0.64</td></tr><tr><td>13.5</td><td>0.62</td><td>0.62</td><td>0.62</td></tr><tr><td>12.0</td><td>0.58</td><td>0.58</td><td>0.58</td></tr><tr><td>10.5</td><td>0.54</td><td>0.54</td><td>0.54</td></tr><tr><td>9.0</td><td>0.51</td><td>0.51</td><td>0.51</td></tr><tr><td>7.5</td><td>0.47</td><td>0.47</td><td>0.47</td></tr><tr><td>6.0</td><td>0.43</td><td>0.43</td><td>0.43</td></tr><tr><td>4.5</td><td>0.40</td><td>0.40</td><td>0.40</td></tr><tr><td>3.0</td><td>0.36</td><td>0.36</td><td>0.36</td></tr><tr><td>1.5</td><td>0.32</td><td>0.32</td><td>0.32</td></tr><tr><td>0.0</td><td>0.28</td><td>0.28</td><td>0.28</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	15.0	0.65	0.65	0.65	14.3	0.64	0.64	0.64	13.5	0.62	0.62	0.62	12.0	0.58	0.58	0.58	10.5	0.54	0.54	0.54	9.0	0.51	0.51	0.51	7.5	0.47	0.47	0.47	6.0	0.43	0.43	0.43	4.5	0.40	0.40	0.40	3.0	0.36	0.36	0.36	1.5	0.32	0.32	0.32	0.0	0.28	0.28	0.28
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																							
15.0	0.65	0.65	0.65																																																							
14.3	0.64	0.64	0.64																																																							
13.5	0.62	0.62	0.62																																																							
12.0	0.58	0.58	0.58																																																							
10.5	0.54	0.54	0.54																																																							
9.0	0.51	0.51	0.51																																																							
7.5	0.47	0.47	0.47																																																							
6.0	0.43	0.43	0.43																																																							
4.5	0.40	0.40	0.40																																																							
3.0	0.36	0.36	0.36																																																							
1.5	0.32	0.32	0.32																																																							
0.0	0.28	0.28	0.28																																																							
Object	-15V0.5A																																																									
1.Graph		2.Values																																																								
<div><div></div>Input Volt. 90V</div> <div><div></div>Input Volt. 100V</div> <div><div></div>Input Volt. 110V</div> 		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>-15.00</td><td>0.67</td><td>0.67</td><td>0.67</td></tr><tr><td>-14.25</td><td>0.65</td><td>0.65</td><td>0.65</td></tr><tr><td>-13.50</td><td>0.63</td><td>0.63</td><td>0.63</td></tr><tr><td>-12.00</td><td>0.60</td><td>0.60</td><td>0.60</td></tr><tr><td>-10.50</td><td>0.56</td><td>0.56</td><td>0.56</td></tr><tr><td>-9.00</td><td>0.52</td><td>0.52</td><td>0.52</td></tr><tr><td>-7.50</td><td>0.48</td><td>0.48</td><td>0.48</td></tr><tr><td>-6.00</td><td>0.45</td><td>0.45</td><td>0.45</td></tr><tr><td>-4.50</td><td>0.41</td><td>0.41</td><td>0.41</td></tr><tr><td>-3.00</td><td>0.37</td><td>0.37</td><td>0.37</td></tr><tr><td>-1.50</td><td>0.34</td><td>0.34</td><td>0.34</td></tr><tr><td>0.00</td><td>0.30</td><td>0.30</td><td>0.30</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	-15.00	0.67	0.67	0.67	-14.25	0.65	0.65	0.65	-13.50	0.63	0.63	0.63	-12.00	0.60	0.60	0.60	-10.50	0.56	0.56	0.56	-9.00	0.52	0.52	0.52	-7.50	0.48	0.48	0.48	-6.00	0.45	0.45	0.45	-4.50	0.41	0.41	0.41	-3.00	0.37	0.37	0.37	-1.50	0.34	0.34	0.34	0.00	0.30	0.30	0.30
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]																																																							
-15.00	0.67	0.67	0.67																																																							
-14.25	0.65	0.65	0.65																																																							
-13.50	0.63	0.63	0.63																																																							
-12.00	0.60	0.60	0.60																																																							
-10.50	0.56	0.56	0.56																																																							
-9.00	0.52	0.52	0.52																																																							
-7.50	0.48	0.48	0.48																																																							
-6.00	0.45	0.45	0.45																																																							
-4.50	0.41	0.41	0.41																																																							
-3.00	0.37	0.37	0.37																																																							
-1.50	0.34	0.34	0.34																																																							
0.00	0.30	0.30	0.30																																																							
Note: Slanted line shows the range of the rated load current.																																																										

- 25 -

BC-10214

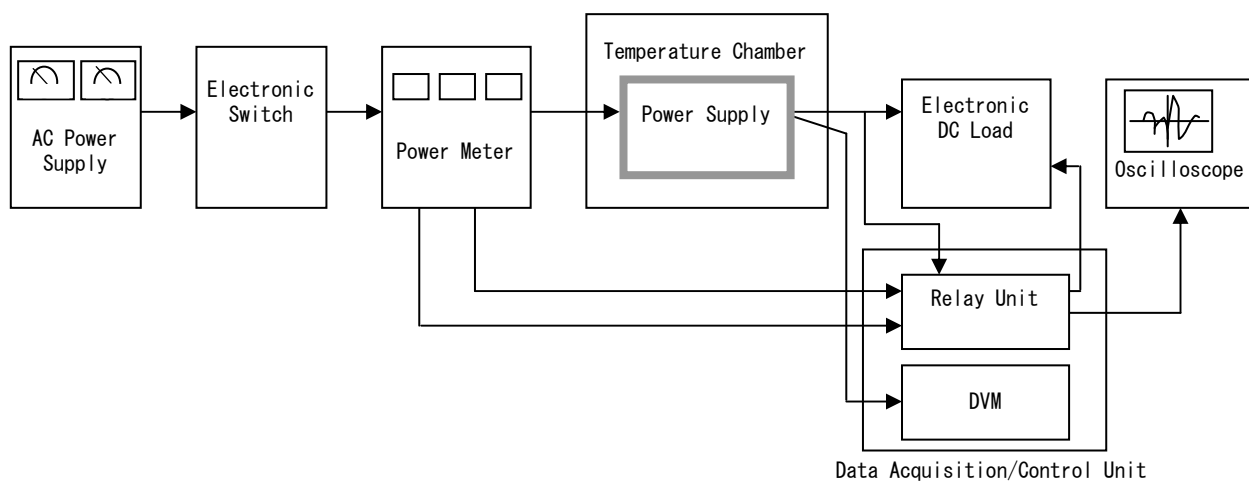


Figure A