

TEST DATA OF GT2W-15

Regulated DC Power Supply
October 26, 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	GT2W-15																																																					
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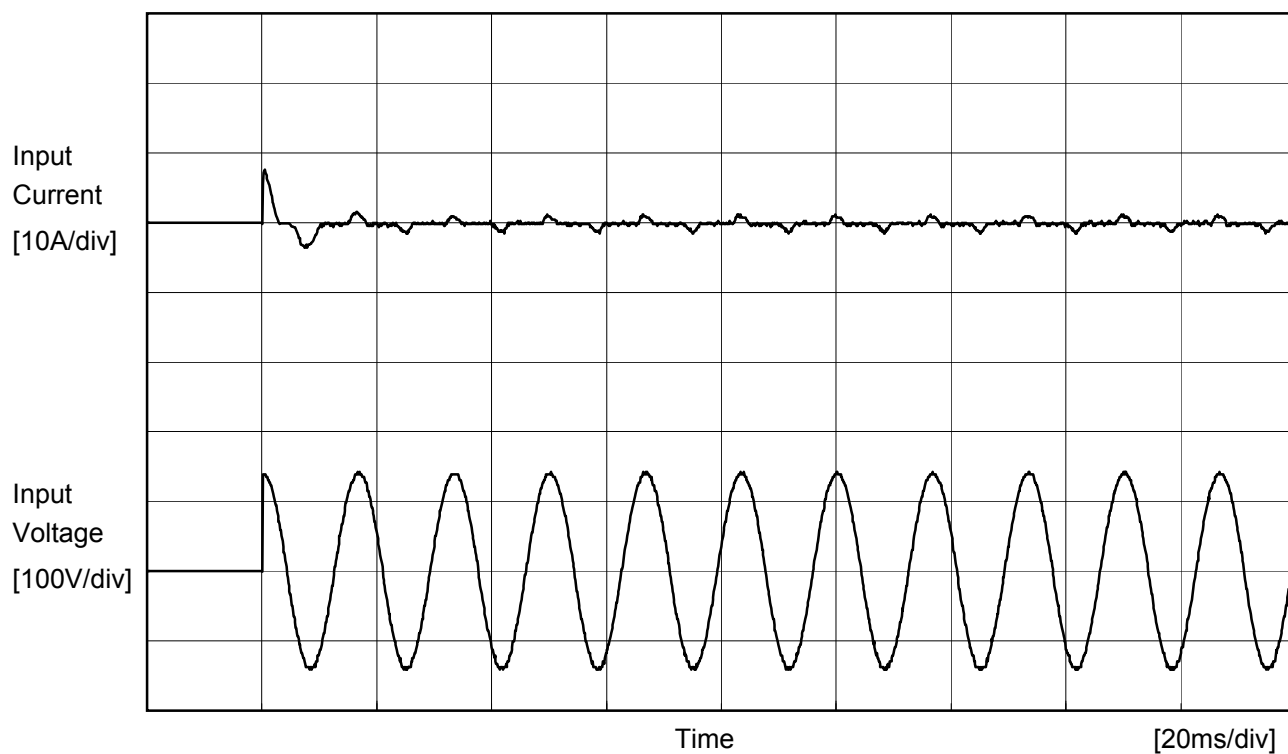
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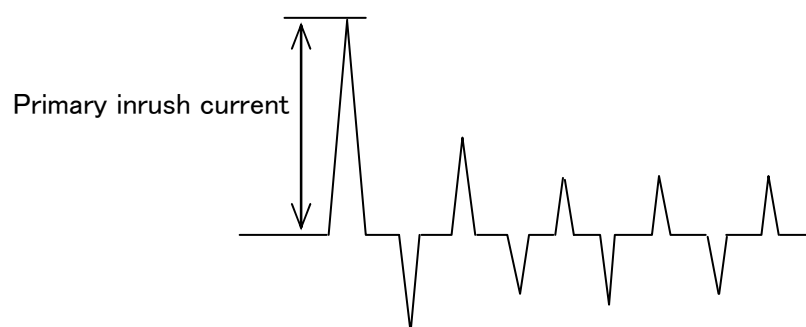
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		Temperature 25°C Testing Circuitry Figure A
Model	GT2W-15	
Item	Inrush Current	
Object		



Input Voltage	100 V
Frequency	60 Hz
Load	100 %

Primary inrush current	7.8 A
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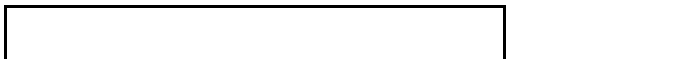
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Model	GT2W-15		
Item	Dynamic Load Response	Temperature	25°C
Object	+15V0.6A	Testing Circuitry	Figure A

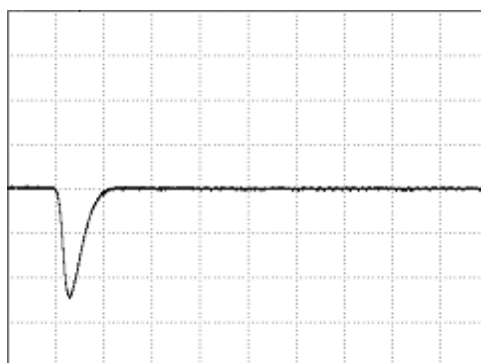
Input Volt. 100 V
Cycle 1000 ms

Load Current

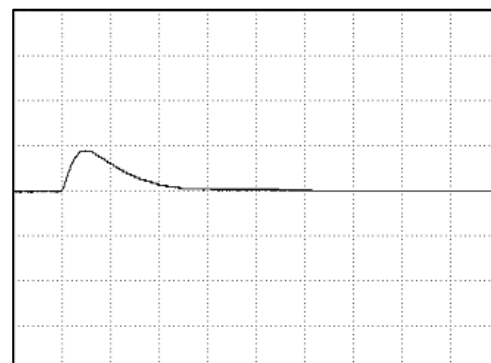


Min. Load (0A) ←→
Load 100% (0.6A)

50 mV/div



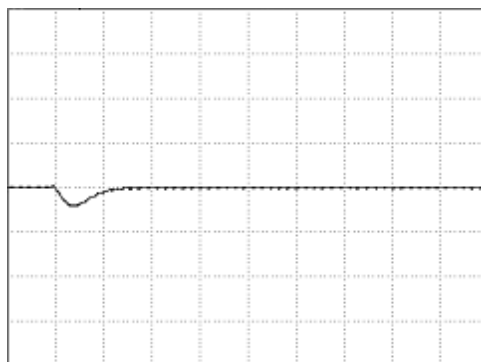
100 μ s/div



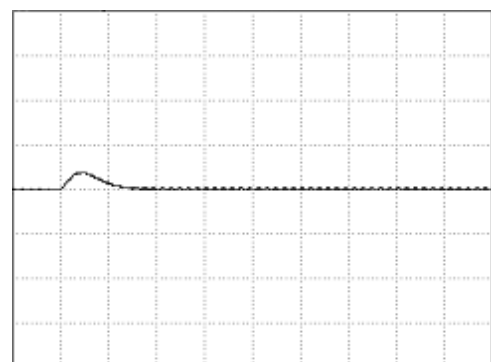
100 μ s/div

Load 50% (0.3A) ←→
Load 100% (0.6A)

50 mV/div



100 μ s/div



100 μ s/div



Model	GT2W-15		
Item	Dynamic Load Response	Temperature	25°C
Object	-15V0.6A	Testing Circuitry	Figure A

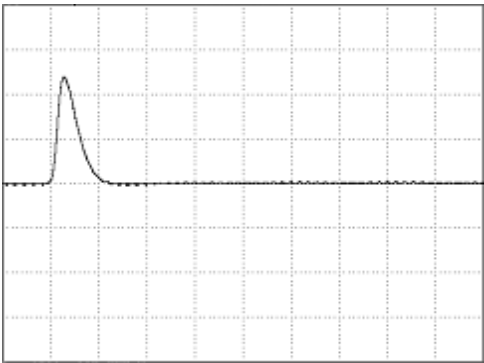
Input Volt. 100 V
Cycle 1000 ms

Load Current

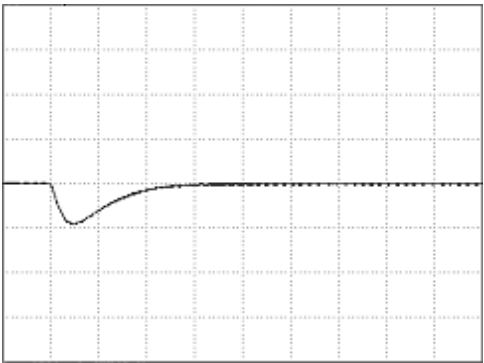


Min. Load (0A) ←→
Load 100% (0.6A)

50 mV/div



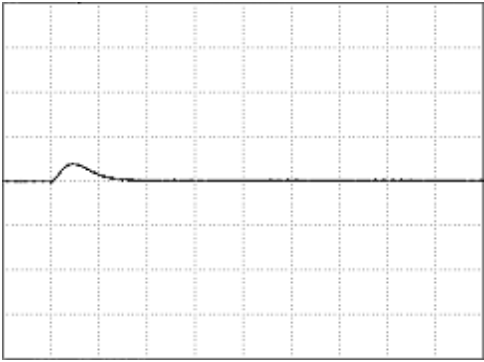
100 μ s/div



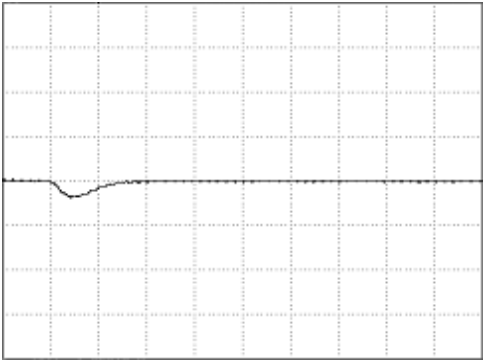
100 μ s/div

Load 50% (0.3A) ←→
Load 100% (0.6A)

50 mV/div



100 μ s/div



100 μ s/div

Model	GT2W-15	Temperature 25°C Testing Circuitry Figure A																																										
Item	Ripple Voltage (by Load Current)																																											
Object	+15V0.6A																																											
1.Graph		2.Values																																										
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Model	GT2W-15																																											
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Model	GT2W-15																																																						
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<div><div>—△— Input Volt. 90V</div><div>---□--- Input Volt. 100V</div><div>-·-○-·- Input Volt. 110V</div></div> <table><thead><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></thead><tbody><tr><td>-20</td><td>-15.035</td><td>-15.035</td><td>-15.035</td></tr><tr><td>-10</td><td>-15.041</td><td>-15.041</td><td>-15.041</td></tr><tr><td>0</td><td>-15.046</td><td>-15.046</td><td>-15.046</td></tr><tr><td>10</td><td>-15.049</td><td>-15.049</td><td>-15.049</td></tr><tr><td>20</td><td>-15.049</td><td>-15.049</td><td>-15.049</td></tr><tr><td>25</td><td>-15.049</td><td>-15.049</td><td>-15.049</td></tr><tr><td>30</td><td>-15.048</td><td>-15.048</td><td>-15.048</td></tr><tr><td>40</td><td>-15.045</td><td>-15.045</td><td>-15.045</td></tr><tr><td>50</td><td>-15.040</td><td>-15.039</td><td>-15.039</td></tr><tr><td>60</td><td>-15.032</td><td>-15.032</td><td>-15.032</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	-20	-15.035	-15.035	-15.035	-10	-15.041	-15.041	-15.041	0	-15.046	-15.046	-15.046	10	-15.049	-15.049	-15.049	20	-15.049	-15.049	-15.049	25	-15.049	-15.049	-15.049	30	-15.048	-15.048	-15.048	40	-15.045	-15.045	-15.045	50	-15.040	-15.039	-15.039	60	-15.032	-15.032	-15.032	--	-	-	-			
Ambient Temperature [°C]	Output Voltage [V]																																																						
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-20	-15.035	-15.035	-15.035																																																				
-10	-15.041	-15.041	-15.041																																																				
0	-15.046	-15.046	-15.046																																																				
10	-15.049	-15.049	-15.049																																																				
20	-15.049	-15.049	-15.049																																																				
25	-15.049	-15.049	-15.049																																																				
30	-15.048	-15.048	-15.048																																																				
40	-15.045	-15.045	-15.045																																																				
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Note: Slanted line shows the range of the rated ambient temperature.																																																							

- 15 -

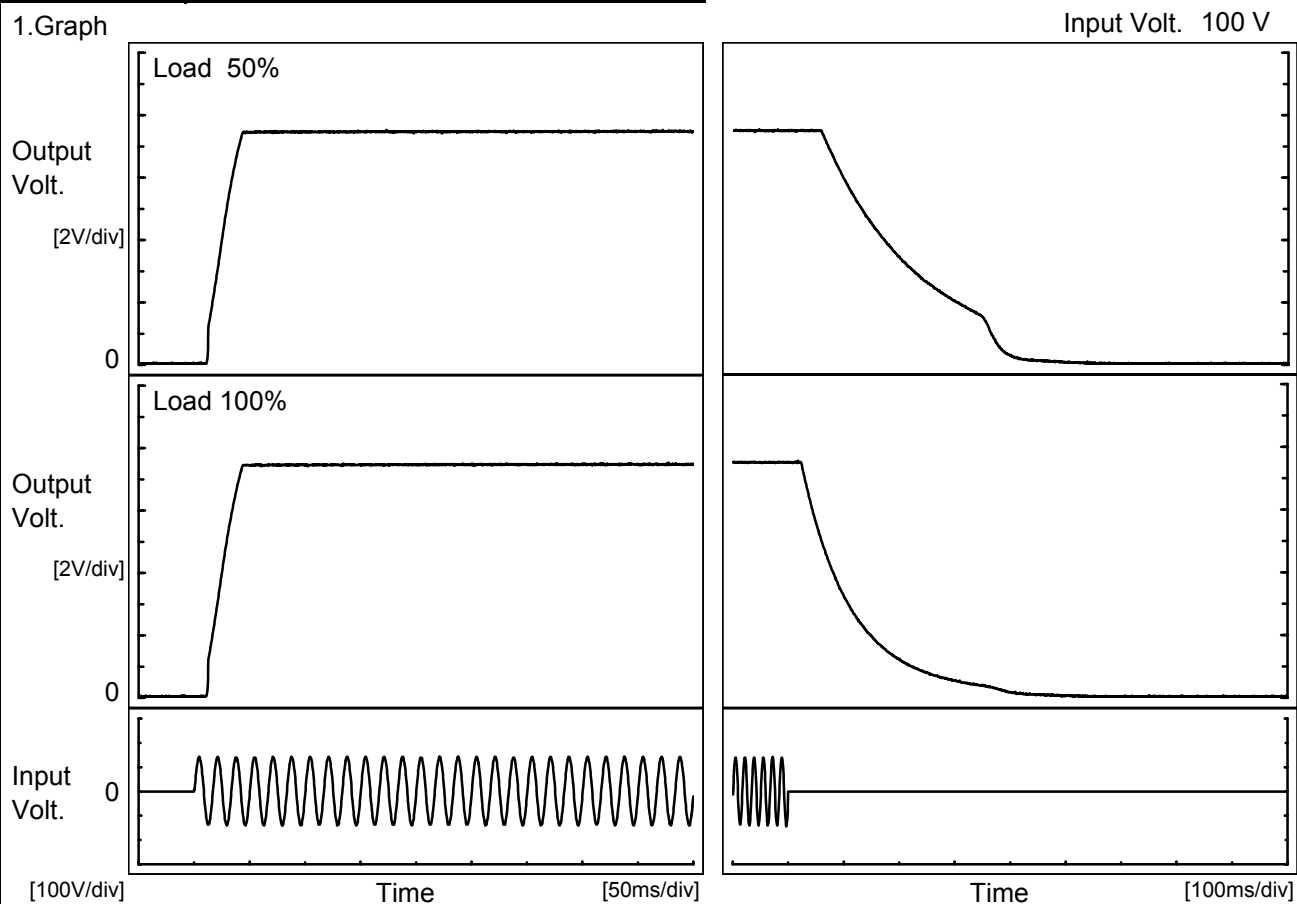
BC-10216

COSEL

Model	GT2W-15		
Item	Time Lapse Drift	Temperature	25°C
Object	+15V0.6A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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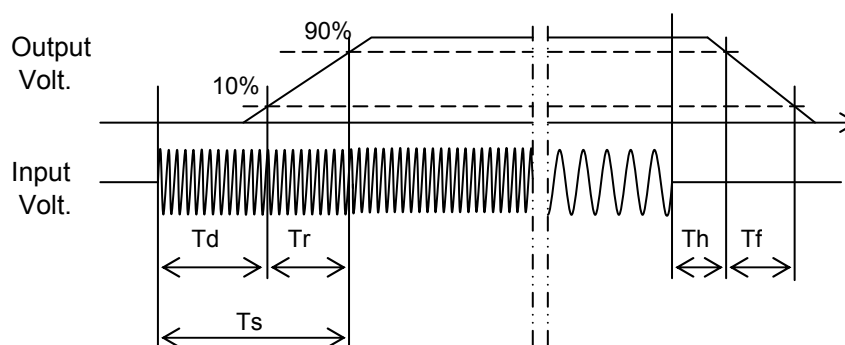
Model	GT2W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.6A		

1.Graph



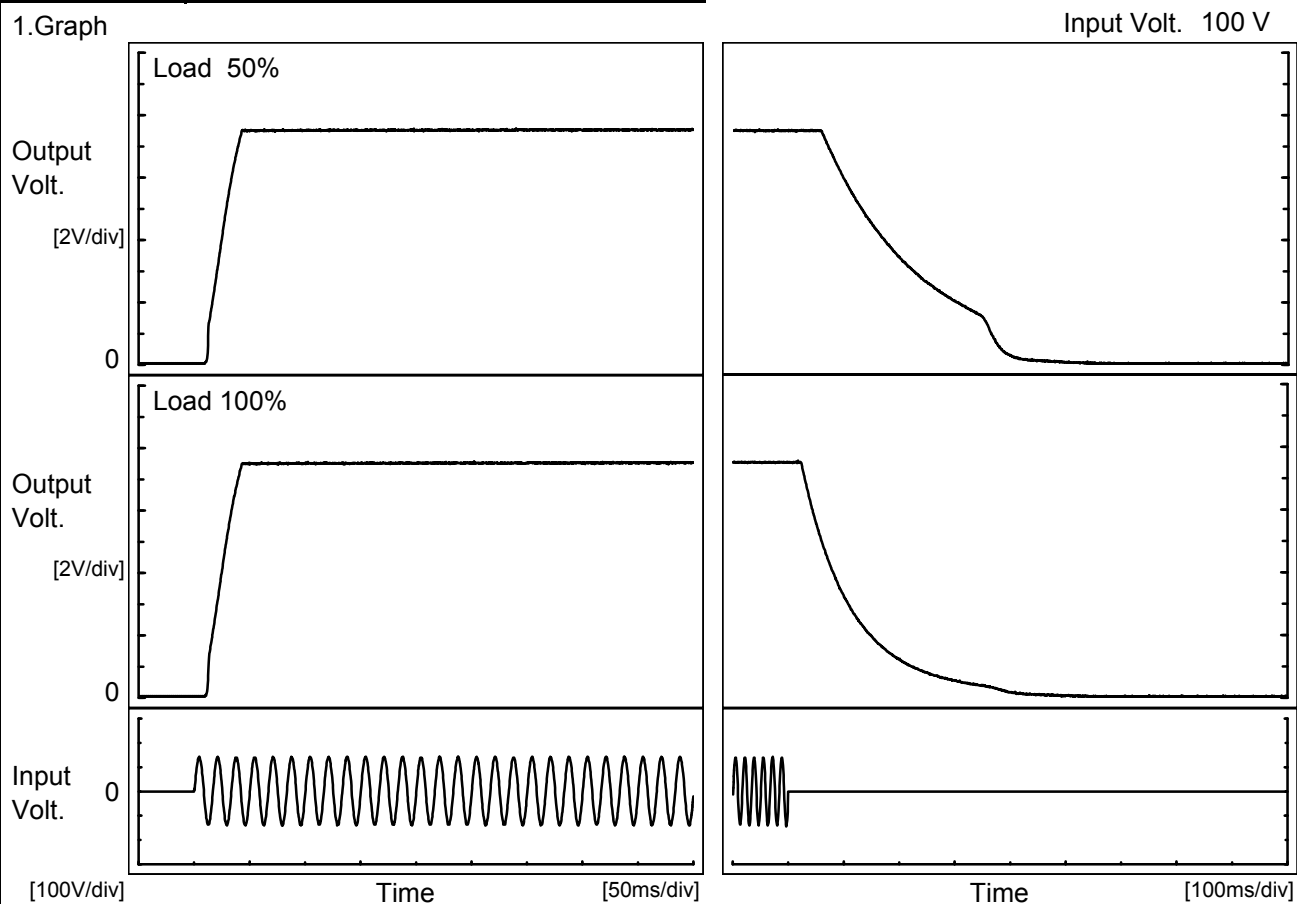
2.Values

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	12.8	26.3	39.1	76.5	295.0
100 %	12.8	26.3	39.1	32.5	219.0



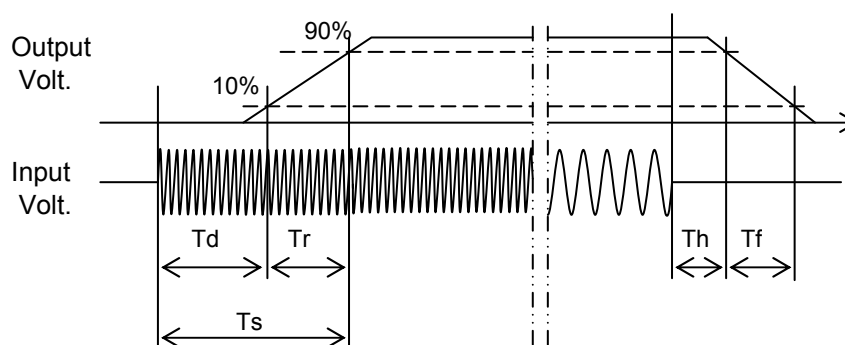
Model	GT2W-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.6A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	12.8	25.8	38.6	76.5	296.0
100 %	13.0	25.5	38.5	32.0	216.0



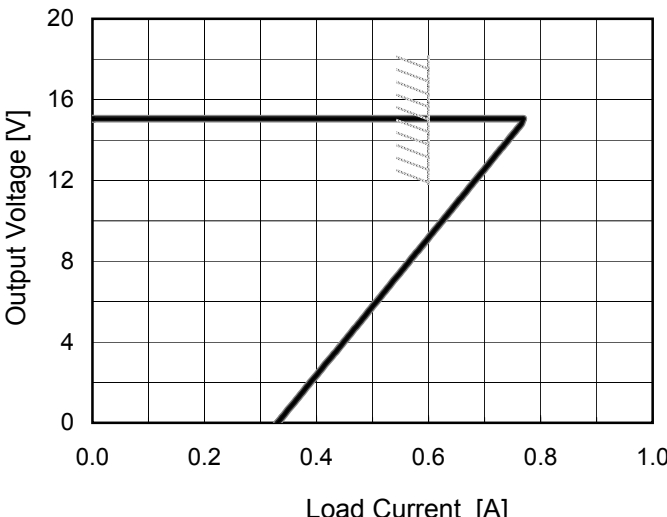
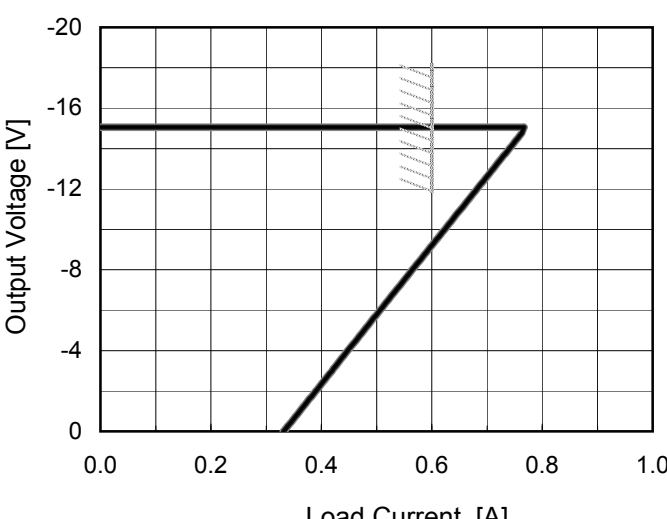
Model	GT2W-15																																		
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		Testing Circuitry	Figure A																																
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1.Graph		2.Values																																	
<div><div><div>---</div><div>□</div><div>---</div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div><div>Load 100%</div></div></div> <p>Hold-Up Time [ms]</p> <p>Input Voltage [V]</p> <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>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>22</td><td>5</td></tr><tr><td>90</td><td>35</td><td>12</td></tr><tr><td>100</td><td>61</td><td>24</td></tr><tr><td>110</td><td>88</td><td>37</td></tr><tr><td>115</td><td>101</td><td>44</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>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	22	5	90	35	12	100	61	24	110	88	37	115	101	44	--	-	-	--	-	-	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
85	22	5																																	
90	35	12																																	
100	61	24																																	
110	88	37																																	
115	101	44																																	
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Model	GT2W-15																																		
Item	Hold-Up Time	Temperature	25°C																																
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Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
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90	34	11																																	
100	60	24																																	
110	87	37																																	
115	100	43																																	
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Model	GT2W-15																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+15V0.6A	Testing Circuitry	Figure A																																																			
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Model		GT2W-15	Testing Circuitry Figure A
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14.3	0.75	0.75	0.75																																																							
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12.0	0.68	0.68	0.68																																																							
10.5	0.64	0.64	0.64																																																							
9.0	0.60	0.60	0.60																																																							
7.5	0.55	0.55	0.55																																																							
6.0	0.51	0.51	0.51																																																							
4.5	0.46	0.46	0.46																																																							
3.0	0.42	0.42	0.42																																																							
1.5	0.38	0.38	0.38																																																							
0.0	0.33	0.33	0.33																																																							
Object	-15V0.6A																																																									
1.Graph		2.Values																																																								
<div><div><div></div><div></div><div></div></div><div>Input Volt. 90V Input Volt. 100V Input Volt. 110V</div></div>  <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>-15.00</td><td>0.77</td><td>0.77</td><td>0.77</td></tr><tr><td>-14.25</td><td>0.75</td><td>0.75</td><td>0.75</td></tr><tr><td>-13.50</td><td>0.73</td><td>0.73</td><td>0.73</td></tr><tr><td>-12.00</td><td>0.68</td><td>0.68</td><td>0.68</td></tr><tr><td>-10.50</td><td>0.64</td><td>0.64</td><td>0.64</td></tr><tr><td>-9.00</td><td>0.59</td><td>0.59</td><td>0.59</td></tr><tr><td>-7.50</td><td>0.55</td><td>0.55</td><td>0.55</td></tr><tr><td>-6.00</td><td>0.51</td><td>0.51</td><td>0.51</td></tr><tr><td>-4.50</td><td>0.47</td><td>0.47</td><td>0.47</td></tr><tr><td>-3.00</td><td>0.42</td><td>0.42</td><td>0.42</td></tr><tr><td>-1.50</td><td>0.38</td><td>0.38</td><td>0.38</td></tr><tr><td>0.00</td><td>0.33</td><td>0.33</td><td>0.33</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	-15.00	0.77	0.77	0.77	-14.25	0.75	0.75	0.75	-13.50	0.73	0.73	0.73	-12.00	0.68	0.68	0.68	-10.50	0.64	0.64	0.64	-9.00	0.59	0.59	0.59	-7.50	0.55	0.55	0.55	-6.00	0.51	0.51	0.51	-4.50	0.47	0.47	0.47	-3.00	0.42	0.42	0.42	-1.50	0.38	0.38	0.38	0.00	0.33	0.33	0.33
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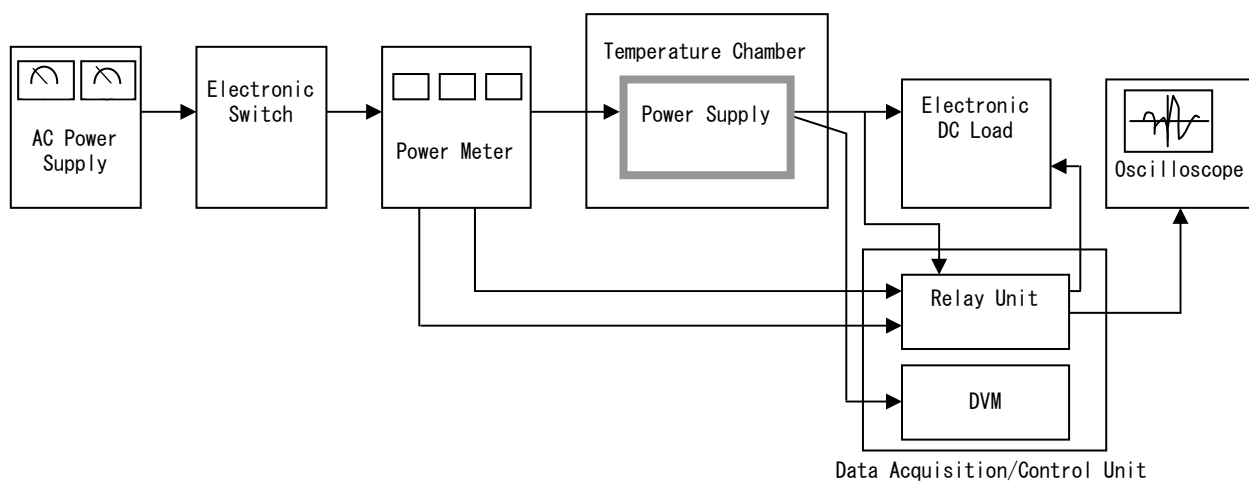


Figure A