

# TEST DATA OF MUW101212

Regulated DC Power Supply  
May.7. 2025

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Design Manager

Prepared by : Yoshihiko Saeki  
Design Engineer

**COSEL CO.,LTD.**

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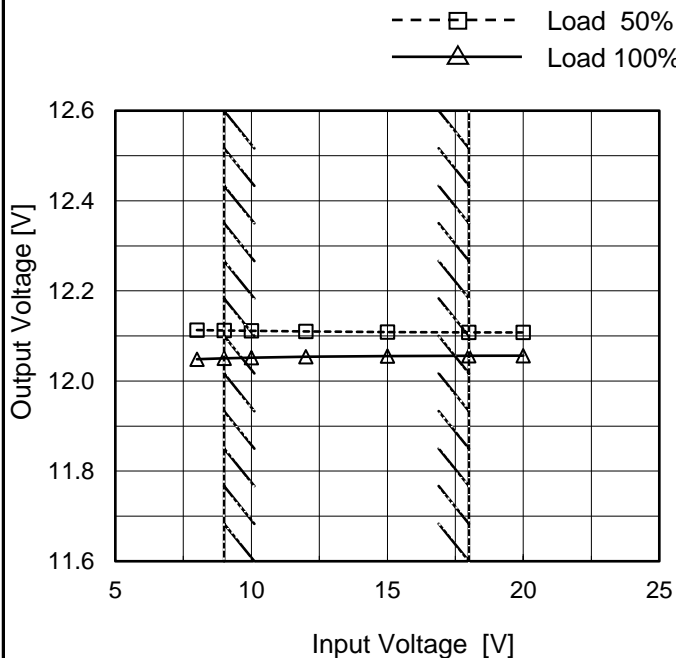


Model		MUW101212	Temperature 25°C Testing Circuitry Figure A																																																		
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Model	MUW101212
Item	Line Regulation
Object	+12V0.45A

Temperature 25°C  
Testing Circuitry Figure A

## 1.Graph



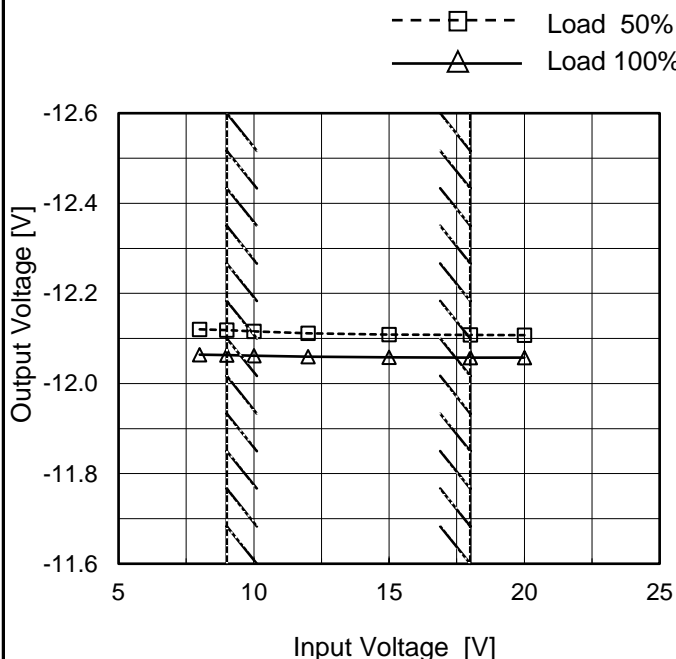
## 2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	12.113	12.048
9	12.113	12.050
10	12.112	12.052
12	12.110	12.054
15	12.109	12.056
18	12.108	12.056
20	12.108	12.056
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-12V: Rated Load Current

Object	-12V0.45A
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## 1.Graph



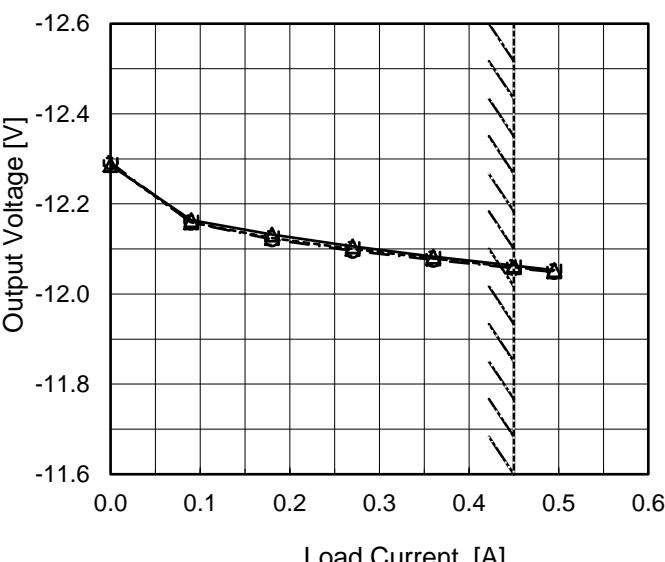
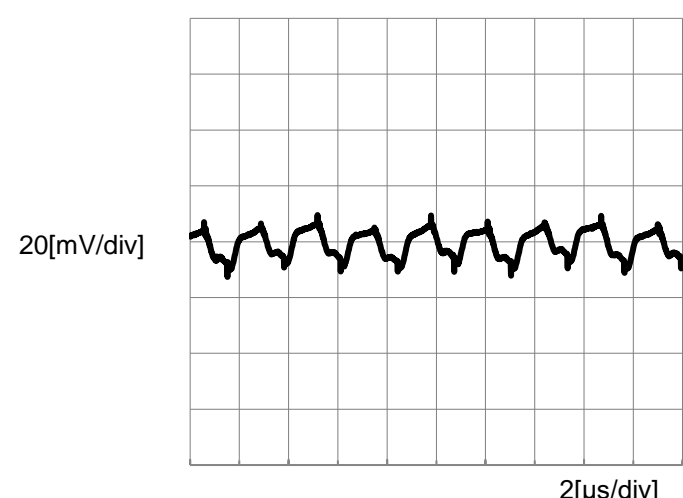
## 2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	-12.120	-12.064
9	-12.118	-12.063
10	-12.116	-12.061
12	-12.112	-12.059
15	-12.109	-12.058
18	-12.108	-12.058
20	-12.107	-12.058
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--	-	-

+12V: Rated Load Current

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

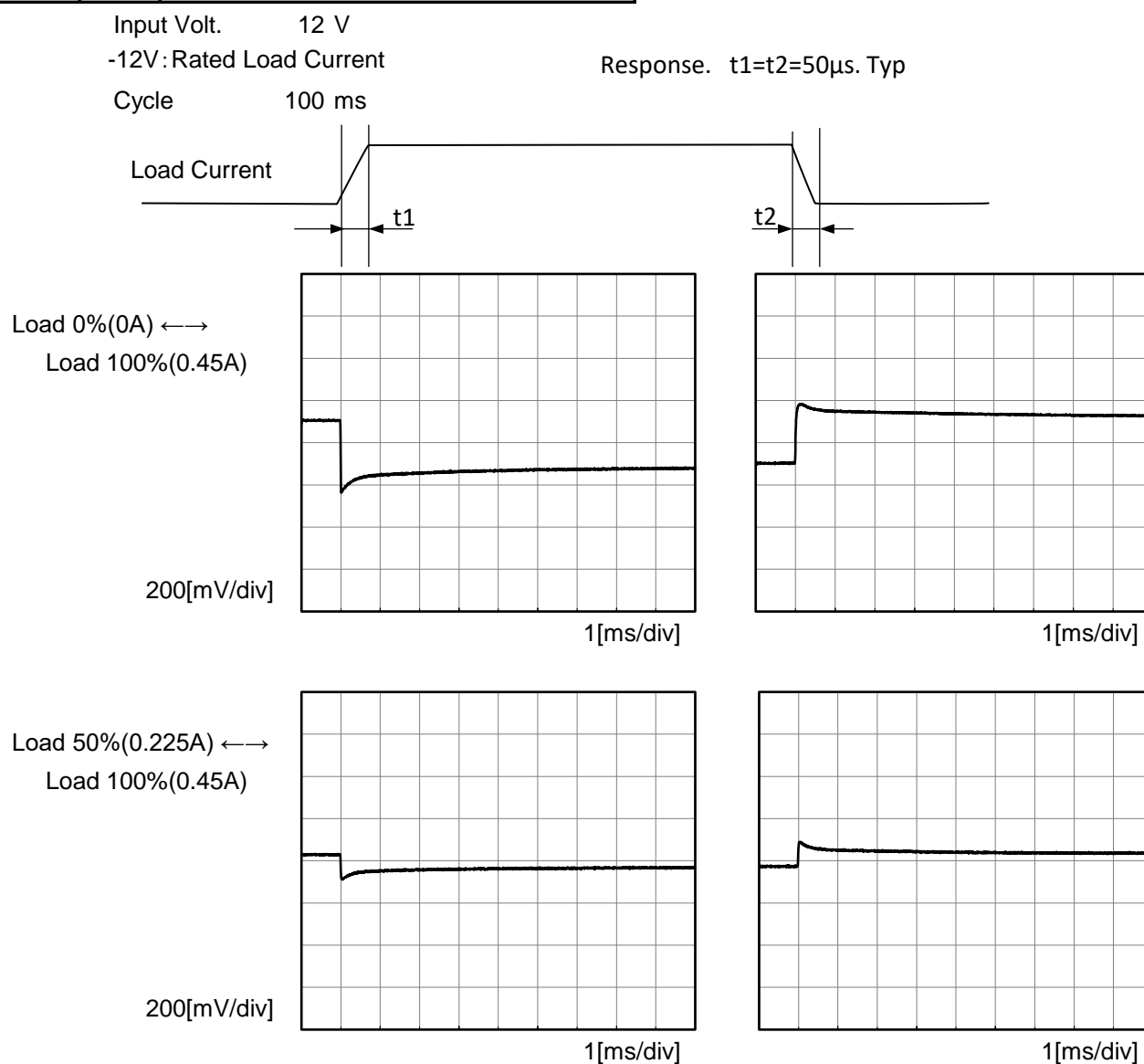
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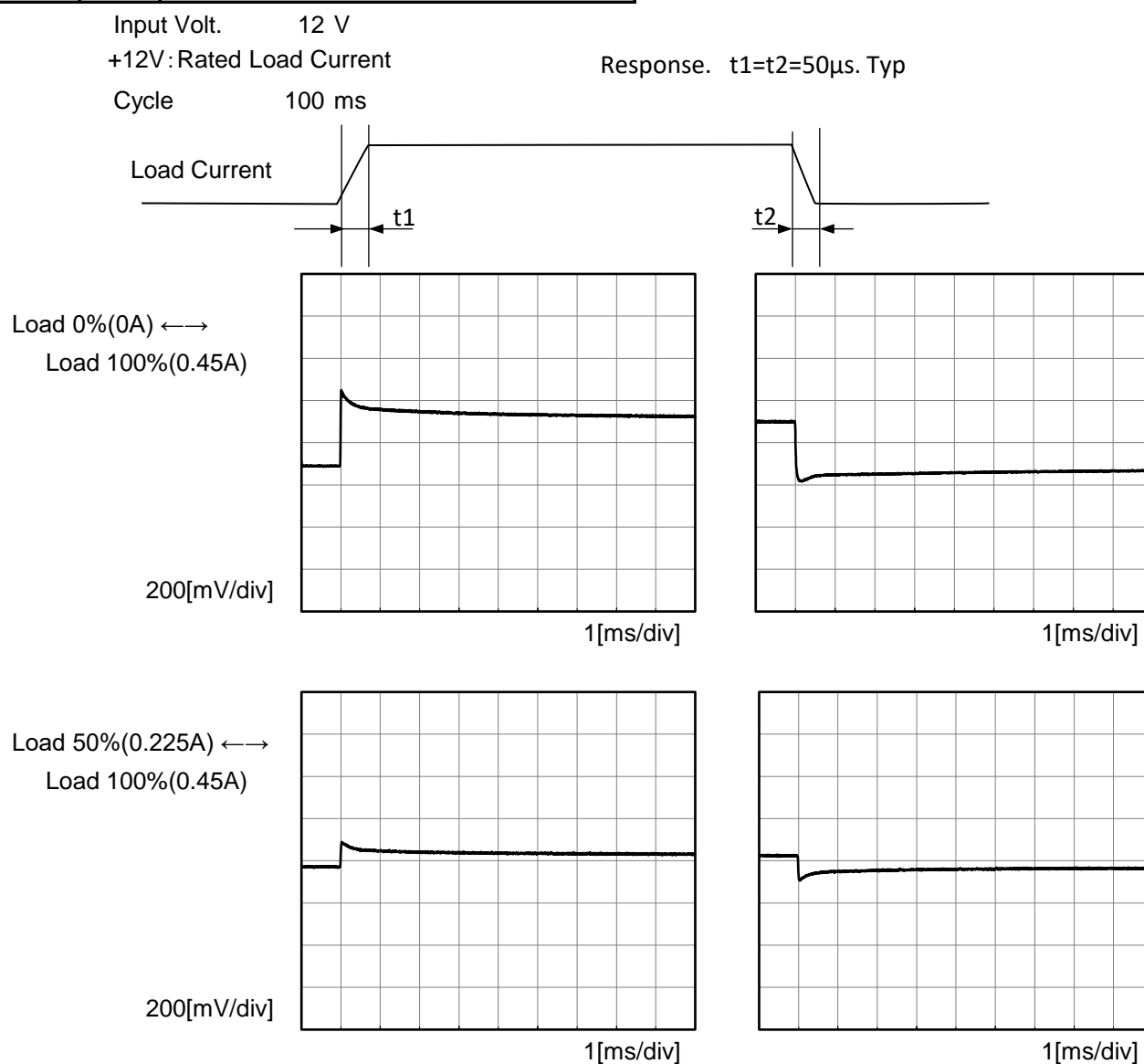
- 5 -

BC-12148

Model	MUW101212	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+12V0.45A	

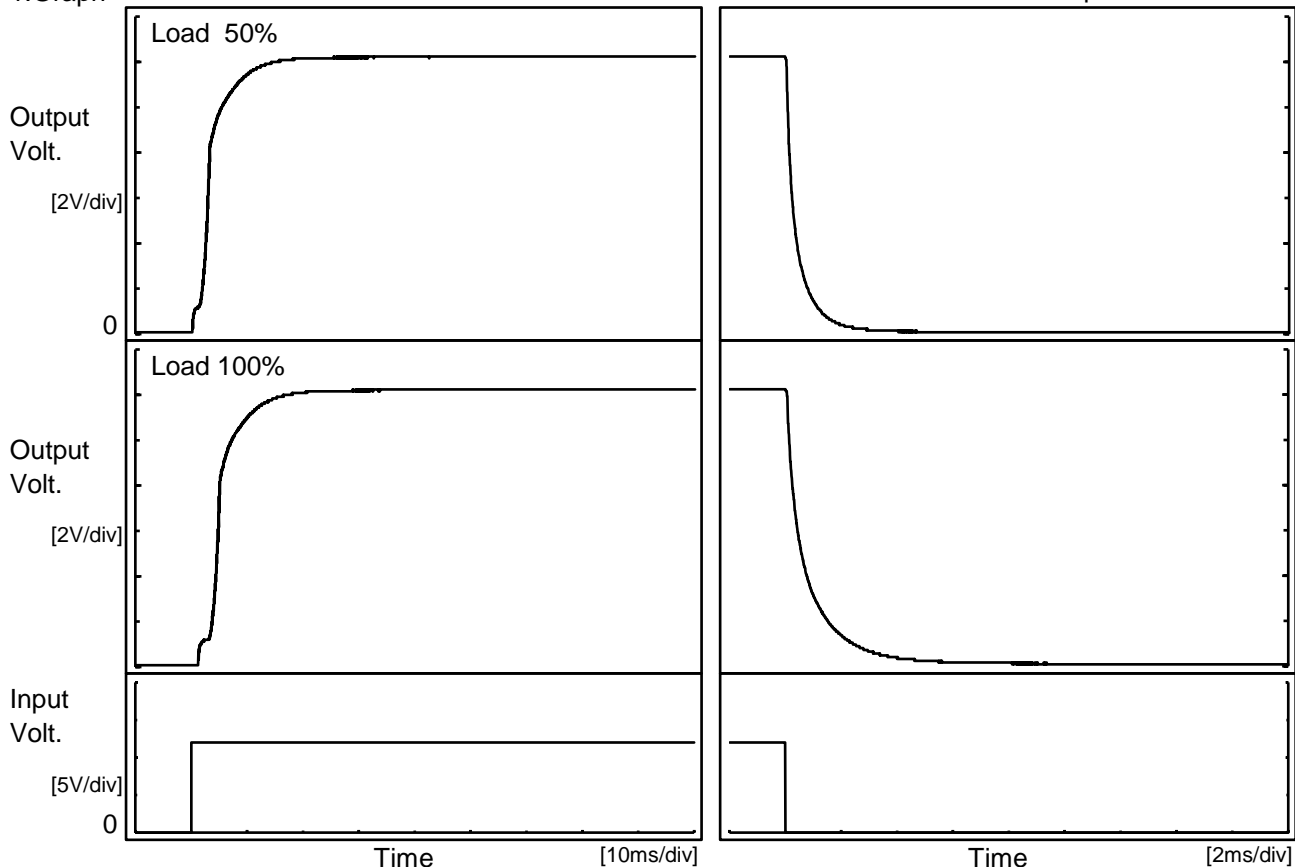


Model	MUW101212	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	-12V0.45A	



Model	MUW101212	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V0.45A		

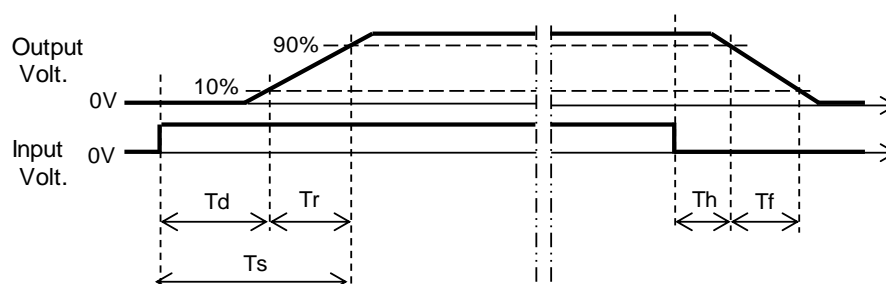
### 1.Graph



-12V: Load Current is same as +12V

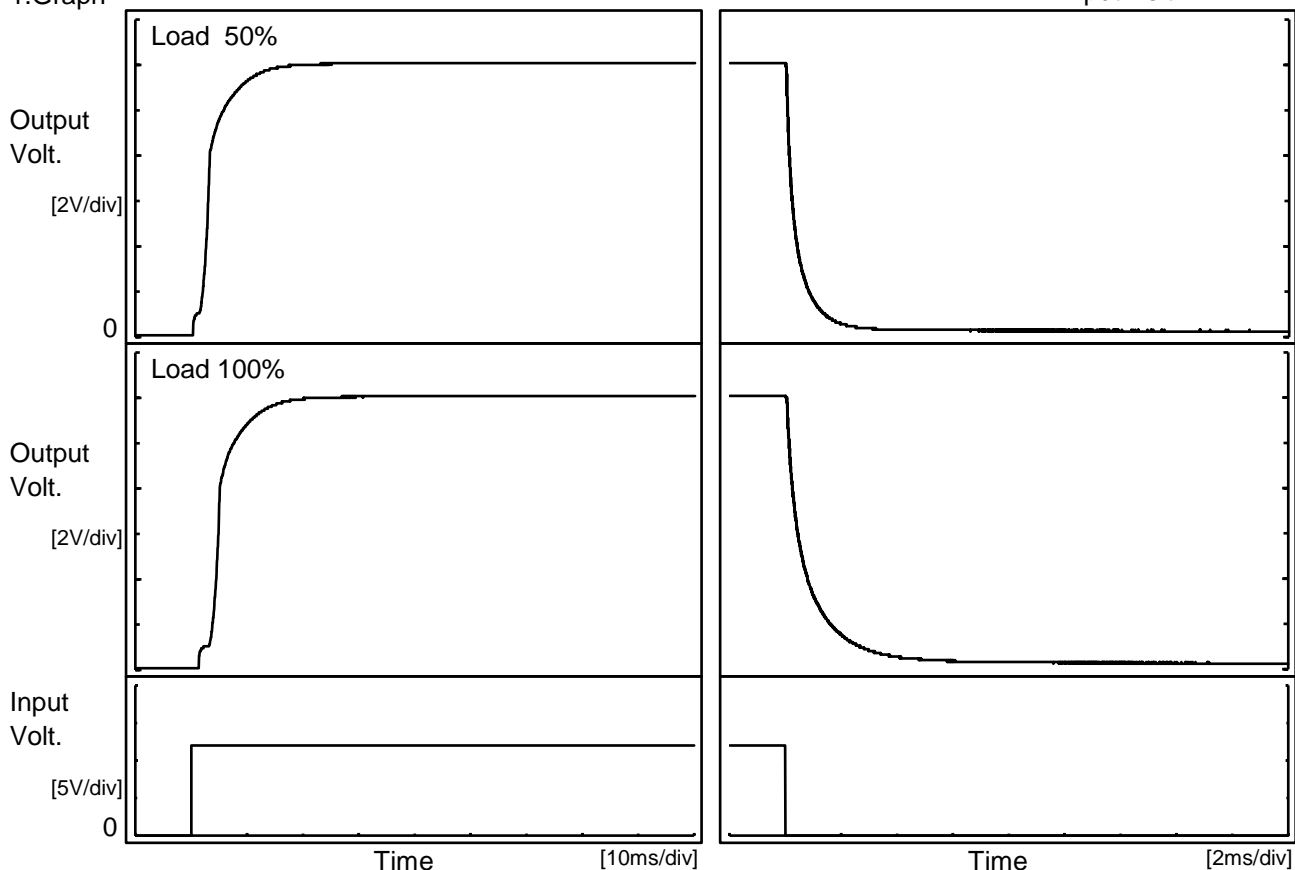
### 2.Values

Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.6	6.1	7.7	0.1	1.0
100 %		3.3	6.2	9.5	0.1	1.9



Model	MUW101212	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-12V0.45A		

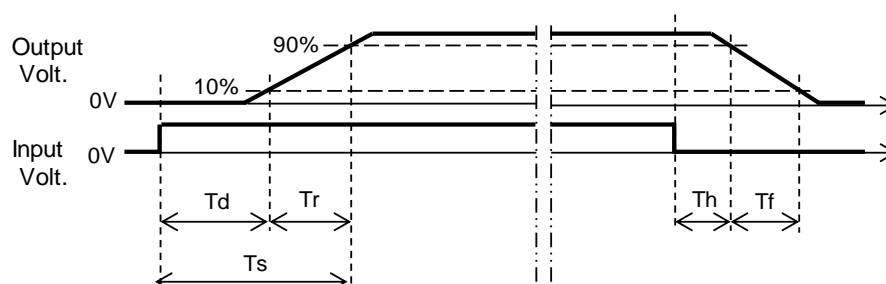
### 1.Graph



+12V:Load Current is same as -12V

### 2.Values

Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.7	6.4	8.1	0.1	1.1
100 %		3.5	6.6	10.1	0.1	2.1



<div>COSEL</div>																																																																																																																							
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6.0	1.17	1.28	1.27																																																																																																																				
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1.2	1.41	1.37	1.31																																																																																																																				
0.0	1.73	1.75	1.75																																																																																																																				
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<div><div><div></div><div></div><div></div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>9V</div><div>12V</div><div>18V</div></div></div> <div><table><thead><tr><th>Output Voltage [V]</th><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr></thead><tbody><tr><td>-11.4</td><td>0.76</td><td>0.87</td><td>0.96</td></tr><tr><td>-10.8</td><td>0.80</td><td>0.92</td><td>1.00</td></tr><tr><td>-9.6</td><td>0.89</td><td>1.02</td><td>1.11</td></tr><tr><td>-8.4</td><td>1.01</td><td>1.12</td><td>1.21</td></tr><tr><td>-7.2</td><td>1.12</td><td>1.24</td><td>1.29</td></tr><tr><td>-6.0</td><td>1.17</td><td>1.25</td><td>1.26</td></tr><tr><td>-4.8</td><td>1.19</td><td>1.25</td><td>1.23</td></tr><tr><td>-3.6</td><td>1.23</td><td>1.26</td><td>1.22</td></tr><tr><td>-2.4</td><td>1.30</td><td>1.30</td><td>1.23</td></tr><tr><td>-1.2</td><td>1.40</td><td>1.39</td><td>1.30</td></tr><tr><td>0.0</td><td>1.72</td><td>1.72</td><td>1.73</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table></div> <div>+12V : Rated Load Current</div> <tr><td colspan="2">Note: Slanted line shows the range of the rated load current.</td><td colspan="2"></td></tr>		Output Voltage [V]	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	-11.4	0.76	0.87	0.96	-10.8	0.80	0.92	1.00	-9.6	0.89	1.02	1.11	-8.4	1.01	1.12	1.21	-7.2	1.12	1.24	1.29	-6.0	1.17	1.25	1.26	-4.8	1.19	1.25	1.23	-3.6	1.23	1.26	1.22	-2.4	1.30	1.30	1.23	-1.2	1.40	1.39	1.30	0.0	1.72	1.72	1.73	--	-	-	-	Note: Slanted line shows the range of the rated load current.																																																																	
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BC-12148

Model		MUW101212	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+12V0.45A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	11.960	11.964	11.966
25	12.050	12.052	12.055
85	12.082	12.085	12.087

-12V: Load Current is same as +12V

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+12V0.45A	

## 1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	7.0	7.0
25	7.1	7.1
85	7.1	7.1

-12V: Load Current is same as +12V

		Testing Circuitry Figure A
Model	MUW101212	
Item	Ambient Temperature Drift	
Object	-12V0.45A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	-11.968	-11.966	-11.964
25	-12.061	-12.058	-12.056
85	-12.096	-12.094	-12.093

+12V: Load Current is same as -12V

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-12V0.45A	

## 1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	7.0	7.0
25	7.1	7.1
85	7.1	7.1

+12V: Load Current is same as -12V

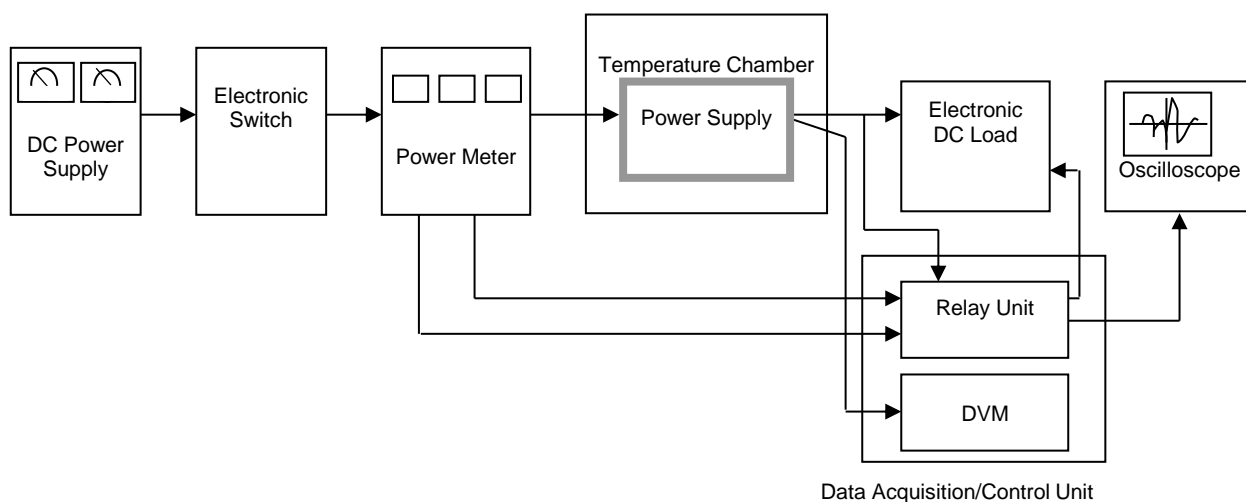


Figure A

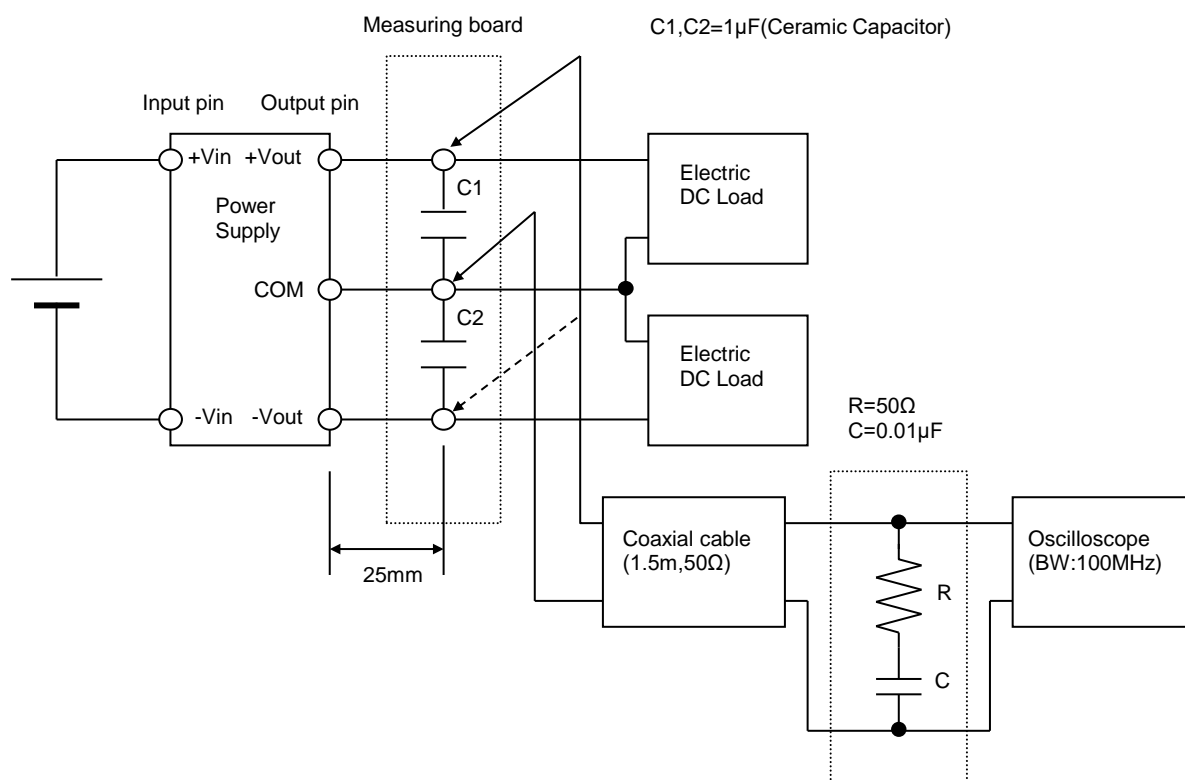


Figure B