

TEST DATA OF MUW62412

Regulated DC Power Supply
May.8. 2025

Approved by : Kenichi Tsukada
Design Manager

Prepared by : Yoshihiko Saeki
Design Engineer

COSEL CO.,LTD.

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Model		MUW62412	Temperature		25°C																																																
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																
Object		_____																																																			
1.Graph			2.Values																																																		
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0.150	12.115	12.113	12.113																																																			
0.200	12.092	12.092	12.092																																																			
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Item	Ripple-Noise	Temperature	25°C																																																			
		Testing Circuitry	Figure B																																																			
Object	+12V0.25A																																																					
1.Graph																																																						
<div><div>Input Voltage</div><div>24V</div></div> <div><div>Load</div><div>100%</div></div> <p>-12V: Rated Load Current</p>																																																						

COSEL

Model	MUW62412																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	-12V0.25A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>36V</div></div></div> <p>Output Voltage [V]</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">Output Voltage [V]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>0.000</td><td>-12.259</td><td>-12.259</td><td>-12.259</td></tr><tr><td>0.050</td><td>-12.174</td><td>-12.173</td><td>-12.173</td></tr><tr><td>0.100</td><td>-12.142</td><td>-12.138</td><td>-12.138</td></tr><tr><td>0.150</td><td>-12.118</td><td>-12.114</td><td>-12.113</td></tr><tr><td>0.200</td><td>-12.096</td><td>-12.093</td><td>-12.091</td></tr><tr><td>0.250</td><td>-12.076</td><td>-12.074</td><td>-12.073</td></tr><tr><td>0.275</td><td>-12.066</td><td>-12.065</td><td>-12.064</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> <p>+12V : Rated Load Current</p>		Load Current [A]	Output Voltage [V]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.000	-12.259	-12.259	-12.259	0.050	-12.174	-12.173	-12.173	0.100	-12.142	-12.138	-12.138	0.150	-12.118	-12.114	-12.113	0.200	-12.096	-12.093	-12.091	0.250	-12.076	-12.074	-12.073	0.275	-12.066	-12.065	-12.064	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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<div><div><div>Input Voltage</div><div>24V</div></div><div><div>Load</div><div>100%</div></div></div> <p>20[mV/div]</p> <p>2[μs/div]</p> <p>+12V : Rated Load Current</p>																																																						

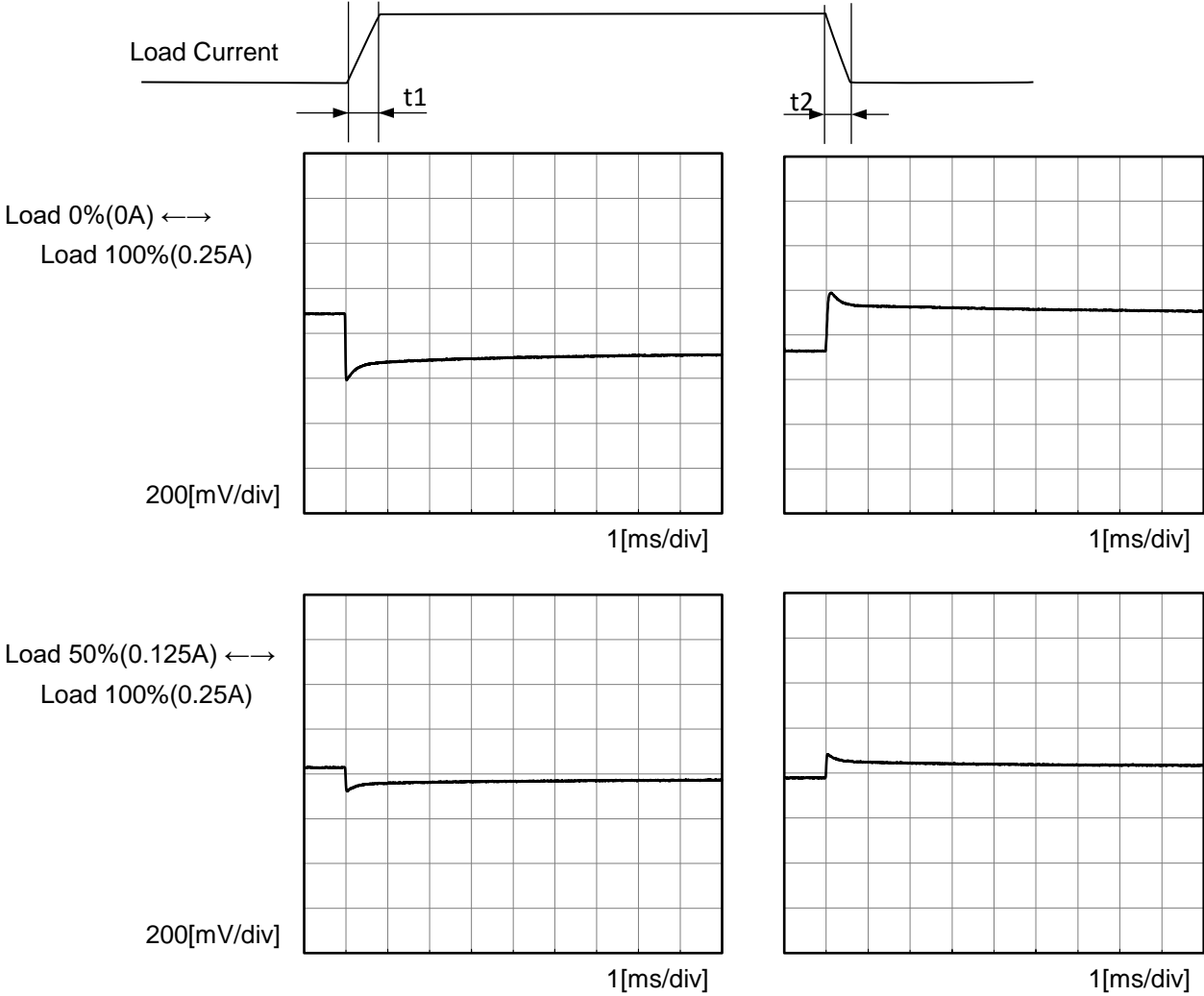
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BC-12142



Model	MUW62412		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+12V0.25A		

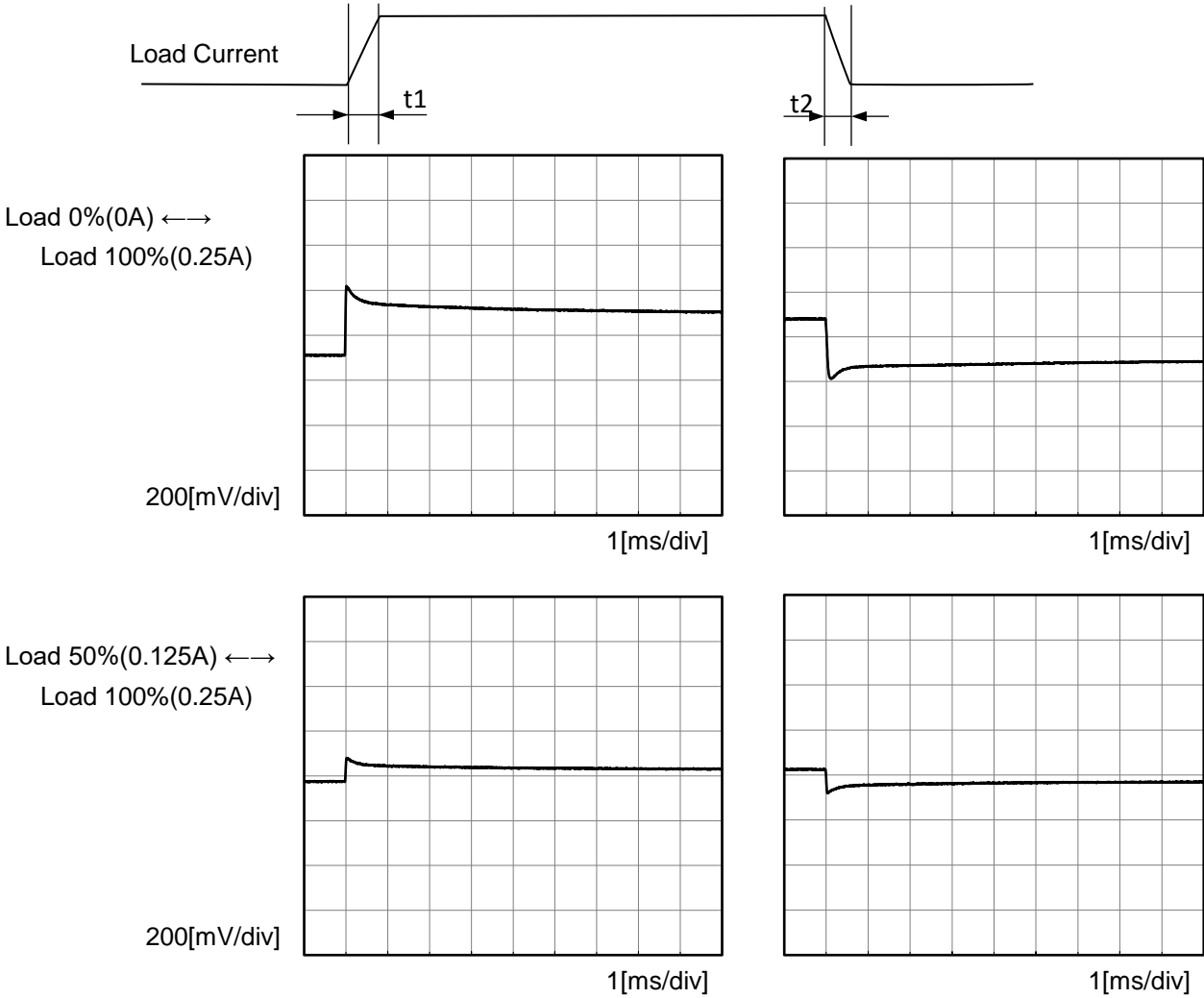
Input Volt. 24 V
-12V: Rated Load Current
Cycle 100 ms
Response. $t_1=t_2=50\mu\text{s}$. Typ

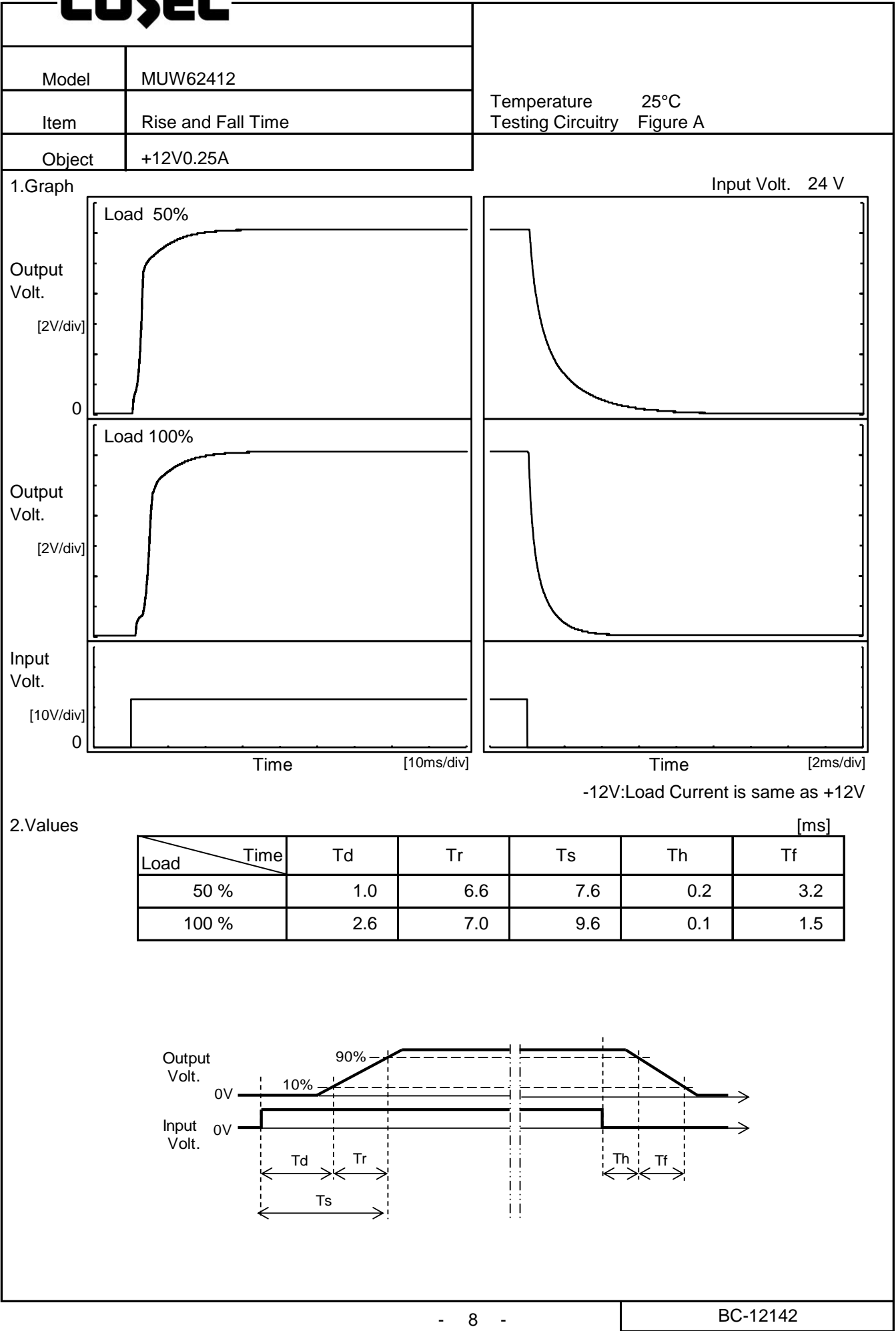




Model		MUW62412	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		-12V0.25A	

Input Volt. 24 V
+12V:Rated Load Current
Cycle 100 ms
Response. t1=t2=50μs. Typ

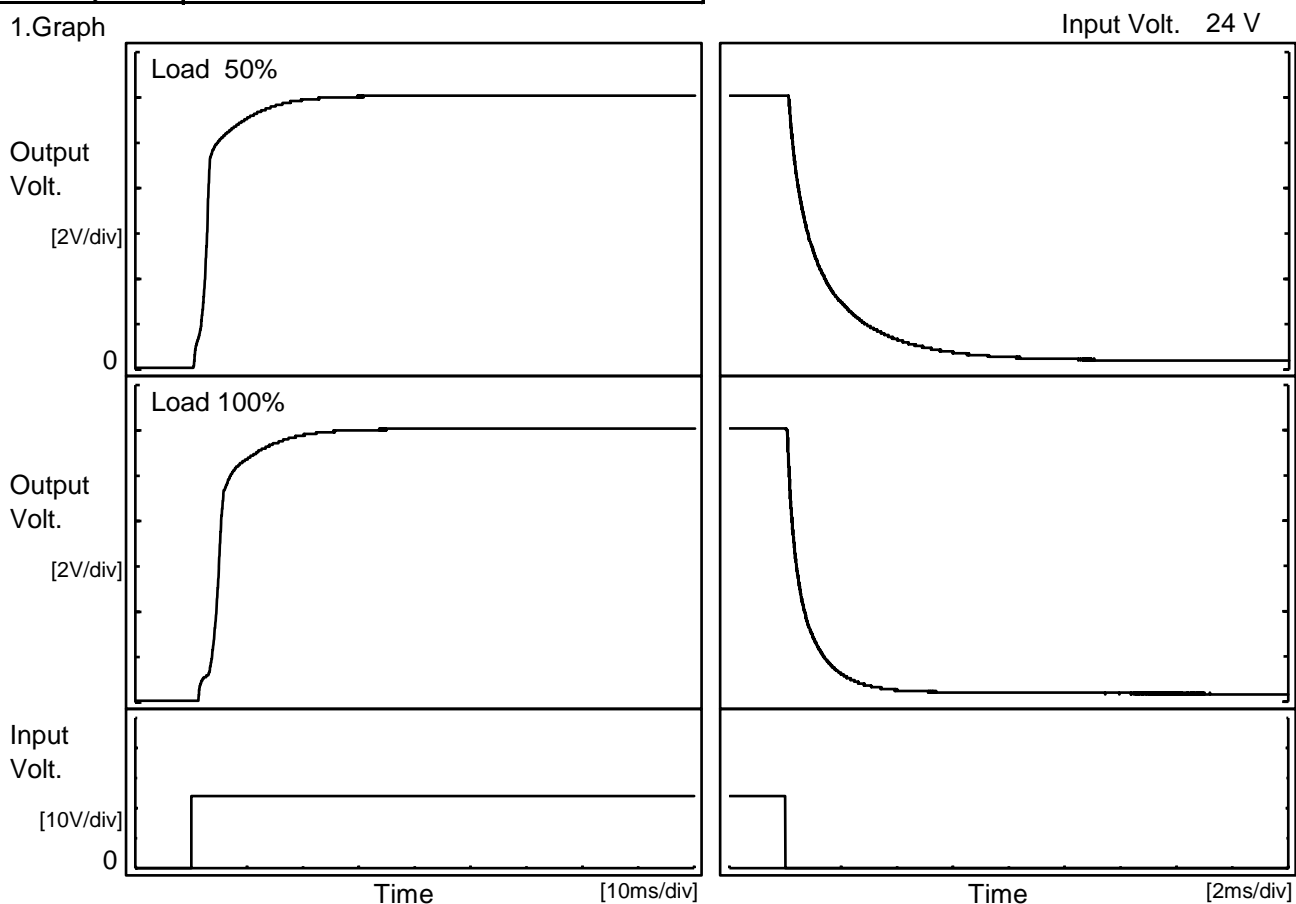




COSEL

Model	MUW62412	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	-12V0.25A	

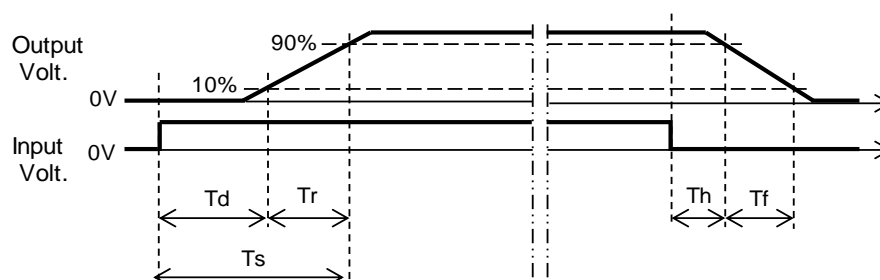
1.Graph



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

2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.2	7.3	8.5	0.2	3.8
100 %		3.2	7.4	10.6	0.1	1.8



COSEL

Model	MUW62412																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+12V0.25A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div>Input Volt. 18V</div><div><div></div>Input Volt. 24V</div><div><div></div>Input Volt. 36V</div></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>11.4</td><td>0.45</td><td>0.50</td><td>0.54</td></tr><tr><td>10.8</td><td>0.48</td><td>0.53</td><td>0.57</td></tr><tr><td>9.6</td><td>0.54</td><td>0.59</td><td>0.63</td></tr><tr><td>8.4</td><td>0.60</td><td>0.66</td><td>0.70</td></tr><tr><td>7.2</td><td>0.68</td><td>0.74</td><td>0.79</td></tr><tr><td>6.0</td><td>0.74</td><td>0.80</td><td>0.82</td></tr><tr><td>4.8</td><td>0.77</td><td>0.81</td><td>0.82</td></tr><tr><td>3.6</td><td>0.80</td><td>0.83</td><td>0.83</td></tr><tr><td>2.4</td><td>0.85</td><td>0.86</td><td>0.85</td></tr><tr><td>1.2</td><td>0.94</td><td>0.94</td><td>0.92</td></tr><tr><td>0.0</td><td>1.12</td><td>1.12</td><td>1.03</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> <div>-12V : Rated Load Current</div>		Output Voltage [V]	Load Current [A]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	11.4	0.45	0.50	0.54	10.8	0.48	0.53	0.57	9.6	0.54	0.59	0.63	8.4	0.60	0.66	0.70	7.2	0.68	0.74	0.79	6.0	0.74	0.80	0.82	4.8	0.77	0.81	0.82	3.6	0.80	0.83	0.83	2.4	0.85	0.86	0.85	1.2	0.94	0.94	0.92	0.0	1.12	1.12	1.03	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																										

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BC-12142



		Testing Circuitry Figure A
Model	MUW62412	
Item	Ambient Temperature Drift	
Object	+12V0.25A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	11.967	11.969	11.971
25	12.070	12.072	12.073
85	12.111	12.112	12.113

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

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+12V0.25A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.7	13.8
25	13.8	13.8
85	13.8	13.8

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



		Testing Circuitry Figure A
Model	MUW62412	
Item	Ambient Temperature Drift	
Object	-12V0.25A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	-11.973	-11.972	-11.972
25	-12.075	-12.074	-12.073
85	-12.115	-12.114	-12.114

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

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-12V0.25A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.7	13.8
25	13.8	13.8
85	13.8	13.8

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

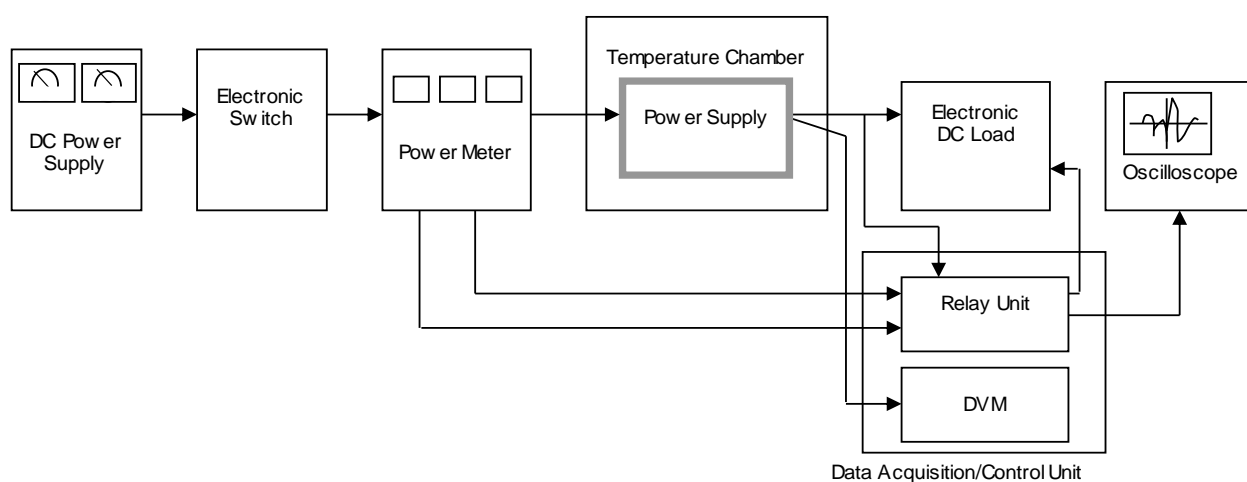


Figure A

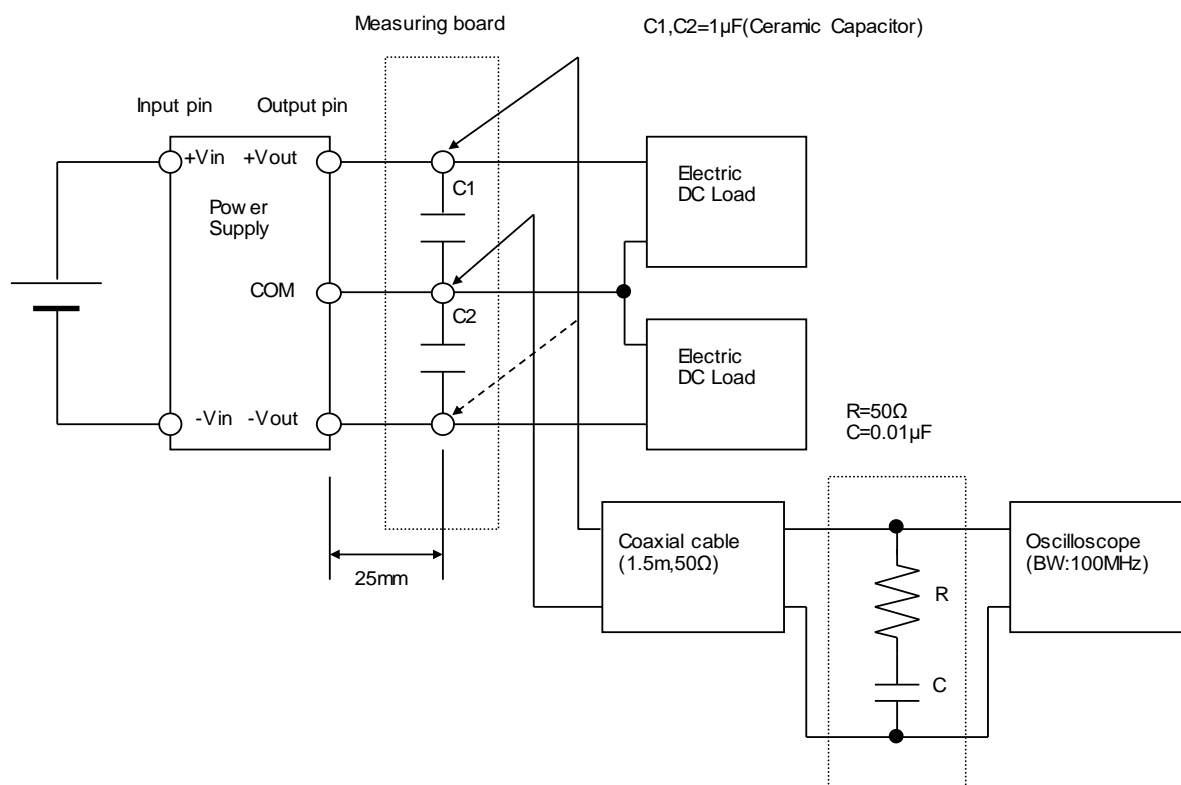


Figure B