

TEST DATA OF MUW32415

Regulated DC Power Supply
February 6, 2025

Approved by : Kenichi Tsukada
Design Manager

Prepared by : Soichiro Kawaguchi
Design Engineer

COSEL CO.,LTD.



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Model	MUW32415	Temperature	25°C																																																			
Item	Input Current (by Load Current)	Testing Circuitry	Figure A																																																			
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1.Graph		2.Values																																																				
<p>Graph showing Input Current [A] vs Load Ratio [%] for MUW32415 at 25°C. The graph plots Input Current against Load Ratio for three input voltages: 18V (solid line with triangles), 24V (dashed line with squares), and 36V (dash-dot line with circles). All curves show a linear increase in current with load ratio, starting from (0,0) and ending near (110, 0.22).</p> <table border="1"> <thead> <tr> <th>Load Ratio [%]</th> <th>Input Volt. 18V [A]</th> <th>Input Volt. 24V [A]</th> <th>Input Volt. 36V [A]</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.011</td><td>0.010</td><td>0.008</td></tr> <tr><td>20</td><td>0.048</td><td>0.039</td><td>0.025</td></tr> <tr><td>40</td><td>0.086</td><td>0.061</td><td>0.046</td></tr> <tr><td>60</td><td>0.120</td><td>0.093</td><td>0.061</td></tr> <tr><td>80</td><td>0.160</td><td>0.121</td><td>0.083</td></tr> <tr><td>100</td><td>0.197</td><td>0.149</td><td>0.101</td></tr> <tr><td>110</td><td>0.213</td><td>0.160</td><td>0.110</td></tr> </tbody> </table>			Load Ratio [%]	Input Volt. 18V [A]	Input Volt. 24V [A]	Input Volt. 36V [A]	0	0.011	0.010	0.008	20	0.048	0.039	0.025	40	0.086	0.061	0.046	60	0.120	0.093	0.061	80	0.160	0.121	0.083	100	0.197	0.149	0.101	110	0.213	0.160	0.110																				
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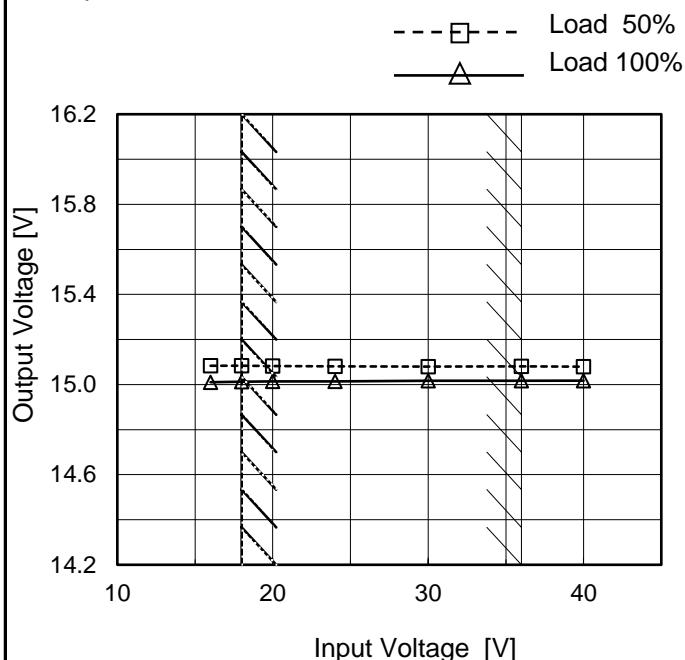
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Model	MUW32415
Item	Line Regulation
Object	+15V0.1A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



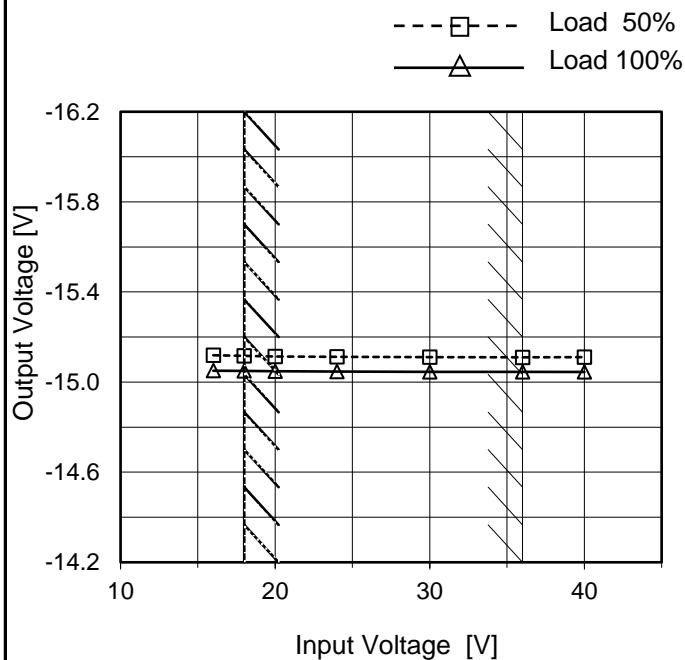
2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
16	15.083	15.010
18	15.083	15.012
20	15.082	15.014
24	15.081	15.014
30	15.080	15.016
36	15.081	15.017
40	15.080	15.017
--	-	-
--	-	-

-15V:Rated Load Current

Object -15V0.1A

1.Graph



2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
16	-15.119	-15.050
18	-15.117	-15.049
20	-15.114	-15.049
24	-15.113	-15.047
30	-15.110	-15.046
36	-15.110	-15.045
40	-15.111	-15.045
--	-	-
--	-	-

+15V:Rated Load Current

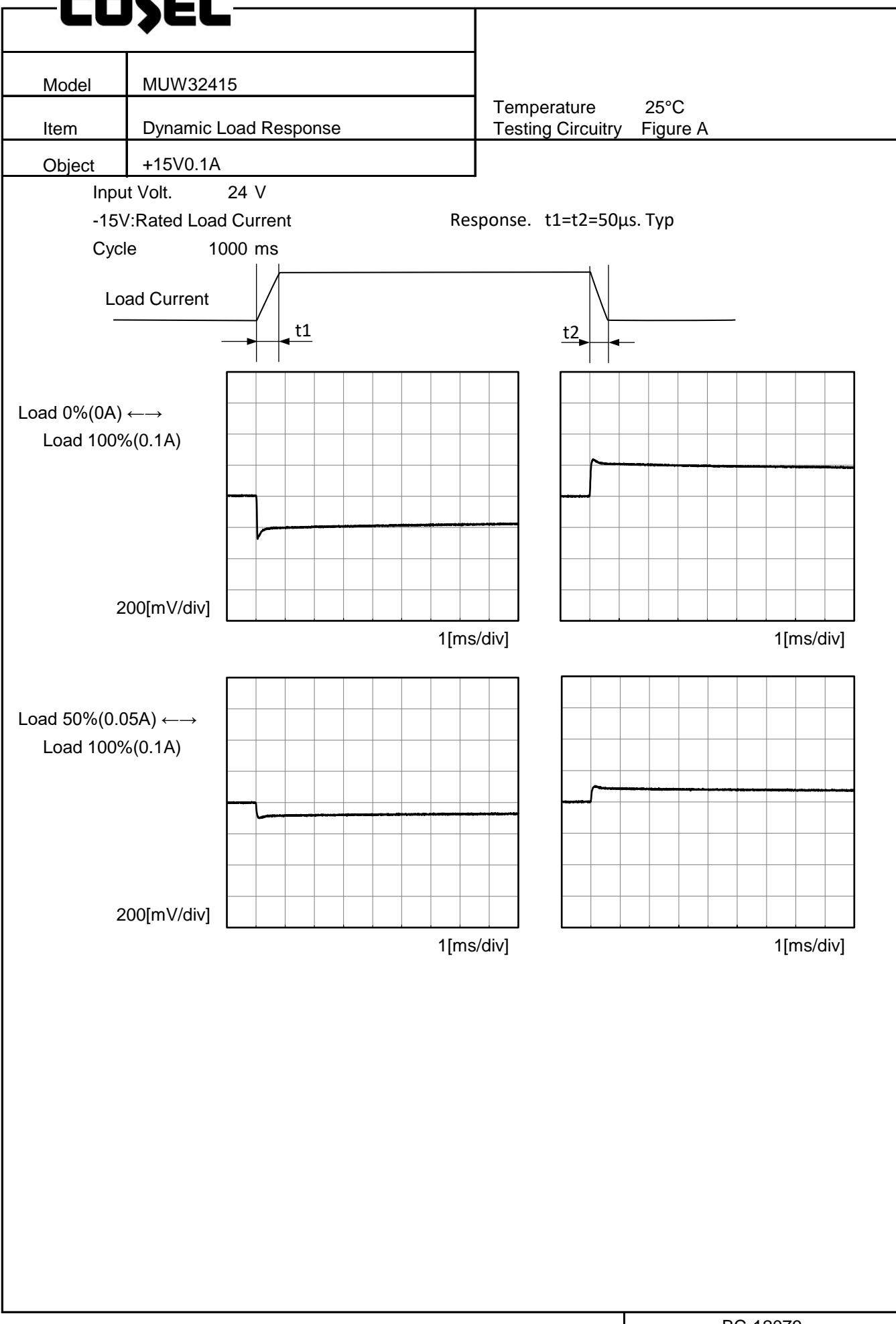
Note: Slanted line shows the range of the rated input voltage.

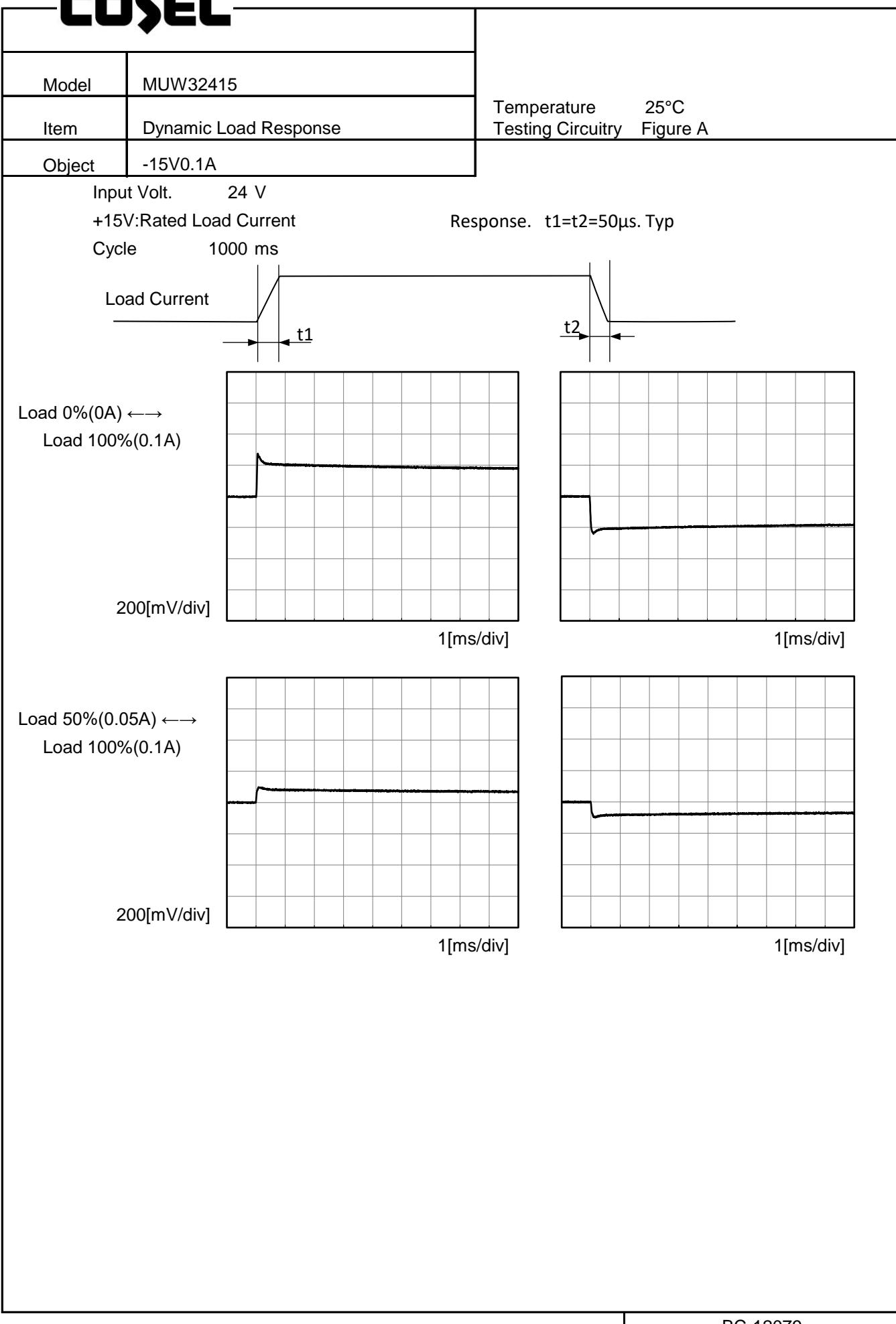
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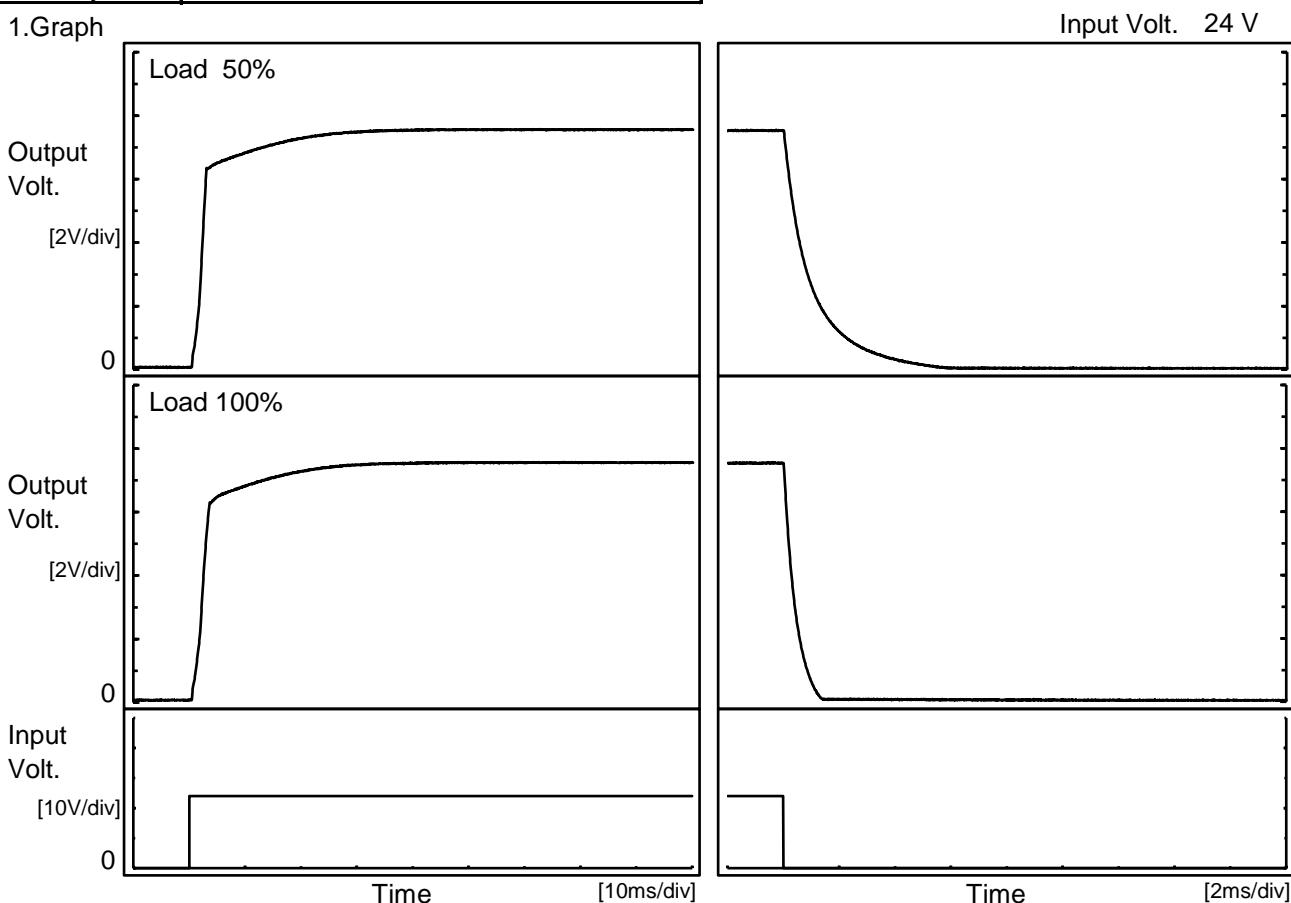
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Item	Rise and Fall Time
Object	+15V0.1A

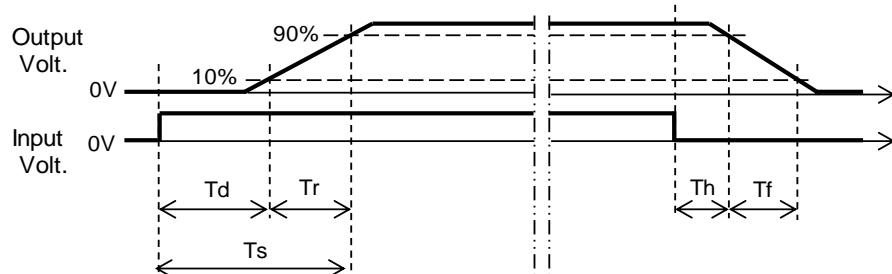
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		1.0	8.3	9.3	0.1	2.5	
100 %		1.0	8.4	9.4	0.1	0.9	

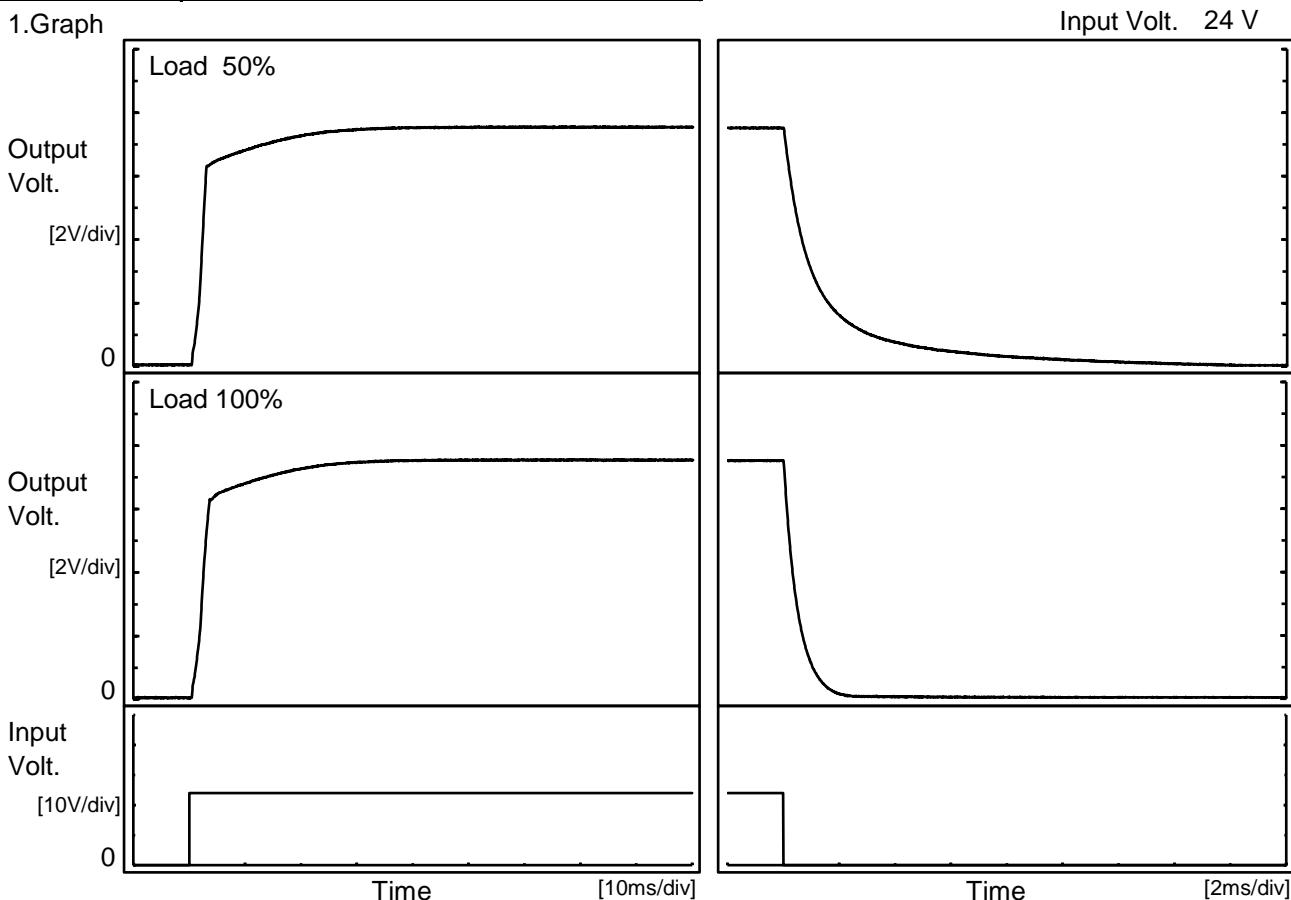


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Item	Rise and Fall Time
Object	-15V0.1A

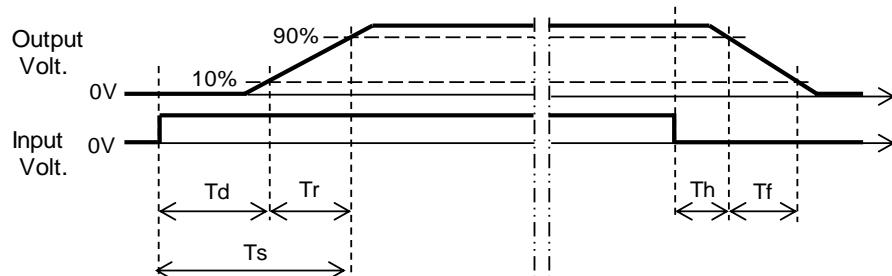
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		1.0	8.5	9.5	0.1	3.8	
100 %		1.0	8.6	9.6	0.1	1.1	



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	Note: Slanted line shows the range of the rated load current.																																																									



Model	MUW32415	Testing Circuitry Figure A
Item	Ambient Temperature Drift	
Object	+15V0.1A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	14.931	14.934	14.936
25	15.022	15.024	15.025
85	15.031	15.033	15.034

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.1A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.9	14.0
25	14.0	14.0
85	14.0	14.0



Model	MUW32415	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	-15V0.1A	

1.Values

Load 100%

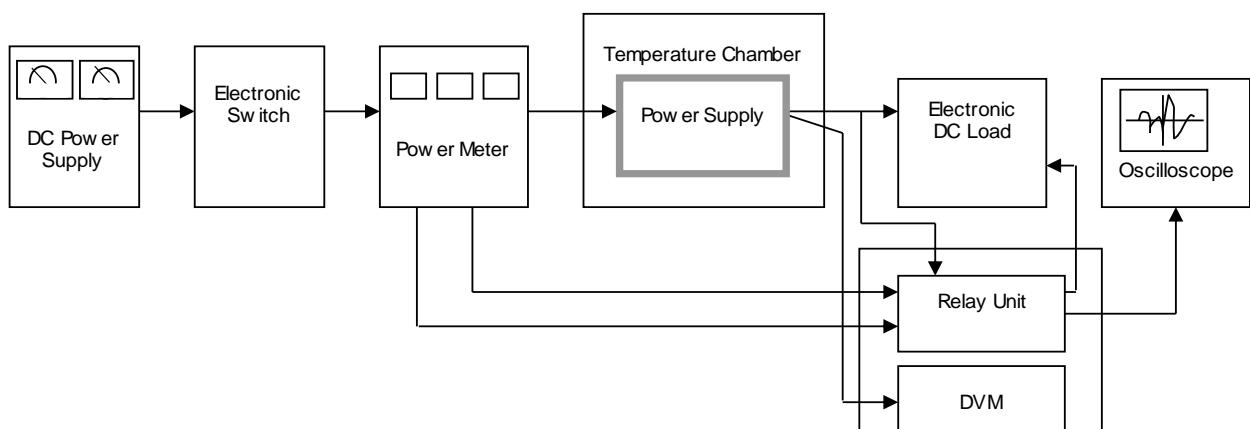
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	-14.950	-14.950	-14.949
25	-15.043	-15.042	-15.040
85	-15.053	-15.051	-15.050

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-15V0.1A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	14.0	14.0
25	14.0	14.0
85	14.0	14.0

COSEL



Data Acquisition/Control Unit

Figure A

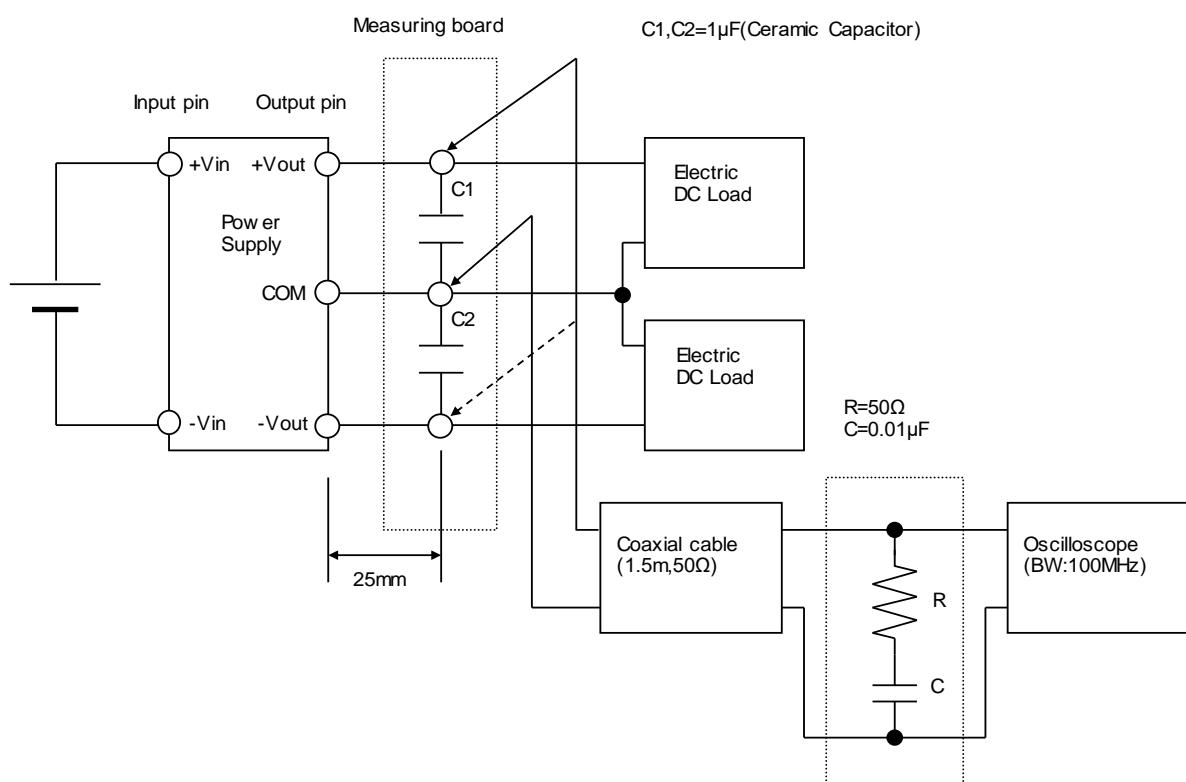


Figure B