

# TEST DATA OF MUW62415

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		MUW62415	Temperature 25°C																																																				
Item		Input Current (by Load Current)	Testing Circuitry Figure A																																																				
Object																																																							
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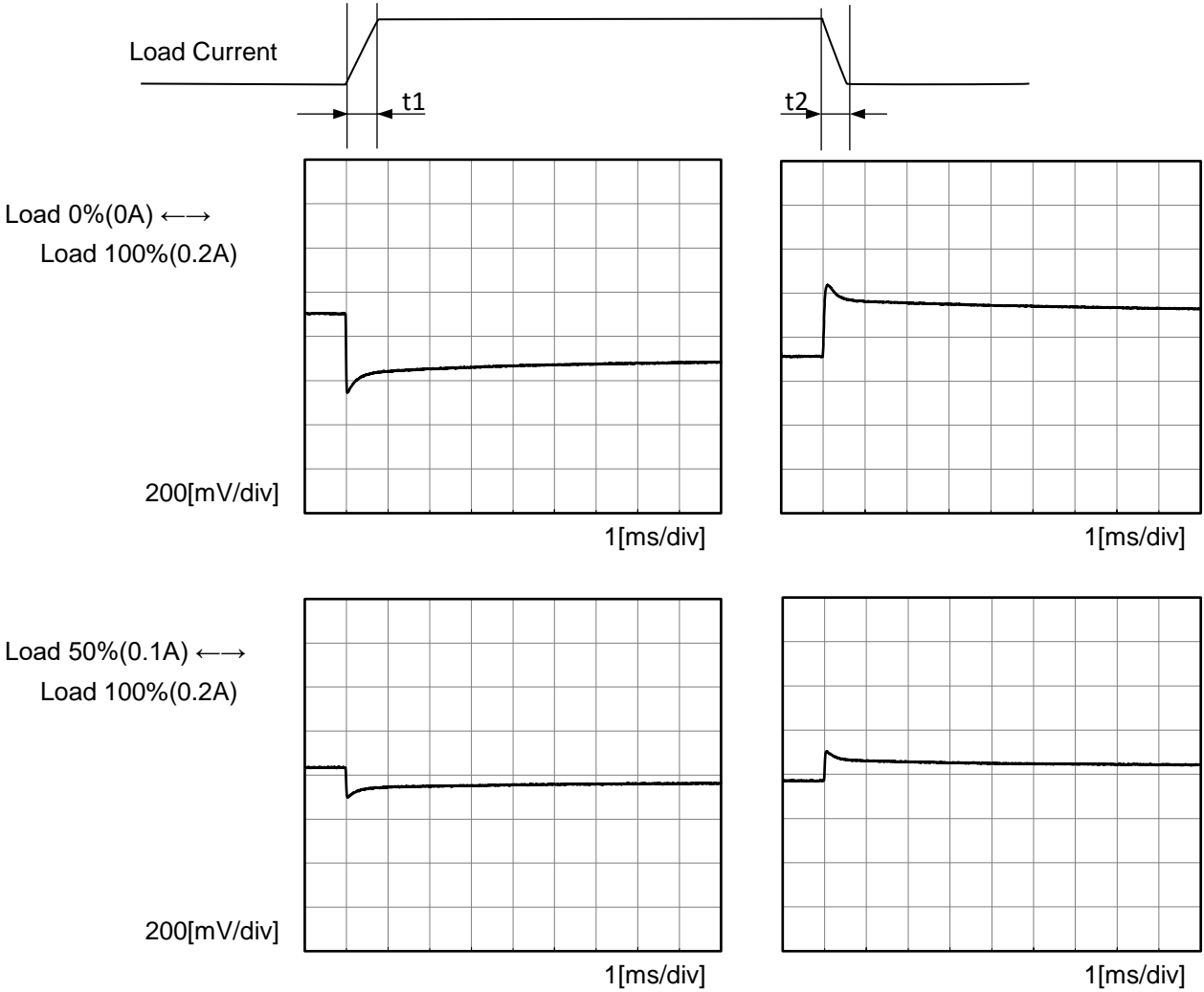
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<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>---○---</div><div>Input Volt.</div><div>36V</div></div></div> <div><p>Note: Slanted line shows the range of the rated load current.</p></div>		<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>0.00</td><td>-15.343</td><td>-15.345</td><td>-15.348</td></tr><tr><td>0.04</td><td>-15.257</td><td>-15.257</td><td>-15.259</td></tr><tr><td>0.08</td><td>-15.216</td><td>-15.213</td><td>-15.214</td></tr><tr><td>0.12</td><td>-15.185</td><td>-15.180</td><td>-15.180</td></tr><tr><td>0.16</td><td>-15.155</td><td>-15.152</td><td>-15.151</td></tr><tr><td>0.20</td><td>-15.128</td><td>-15.126</td><td>-15.127</td></tr><tr><td>0.22</td><td>-15.115</td><td>-15.114</td><td>-15.115</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>+15V : Rated Load Current</p>		Load Current [A]	Output Voltage [V]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.00	-15.343	-15.345	-15.348	0.04	-15.257	-15.257	-15.259	0.08	-15.216	-15.213	-15.214	0.12	-15.185	-15.180	-15.180	0.16	-15.155	-15.152	-15.151	0.20	-15.128	-15.126	-15.127	0.22	-15.115	-15.114	-15.115	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	-15V0.2A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>24V</div></div><div><div>Load</div><div>100%</div></div></div> <div><p>+15V : Rated Load Current</p></div>																																																						



Model		MUW62415	Temperature     25°C Testing Circuitry   Figure A
Item		Dynamic Load Response	
Object		+15V0.2A	

Input Volt.     24 V  
-15V: Rated Load Current  
Cycle     100 ms  
Response.  $t_1=t_2=50\mu\text{s}$ . Typ



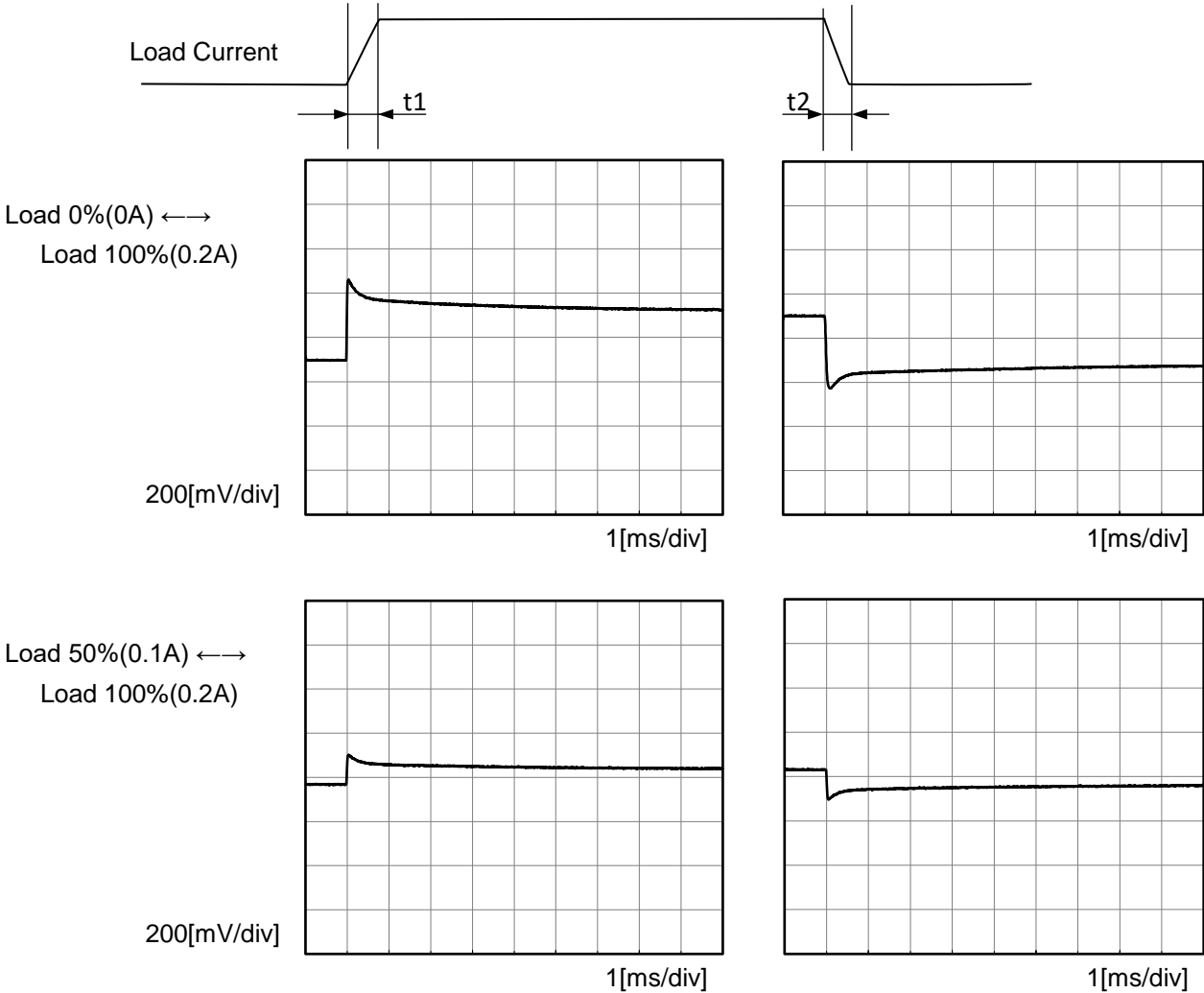




Model		MUW62415	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		-15V0.2A	

Input Volt. 24 V  
+15V : Rated Load Current  
Cycle 100 ms

Response.  $t_1=t_2=50\mu\text{s}$ . Typ

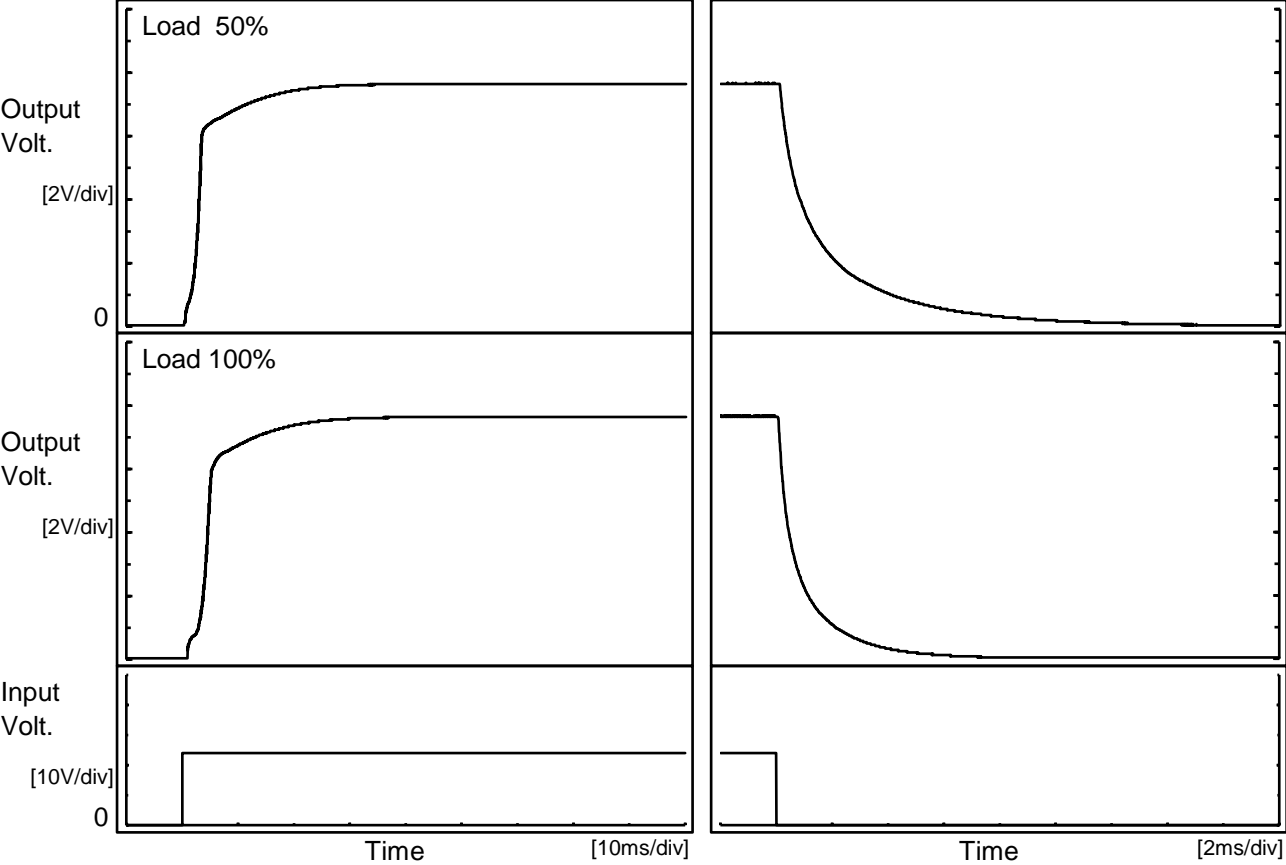




Model	MUW62415	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.2A		

1.Graph

Input Volt. 24 V

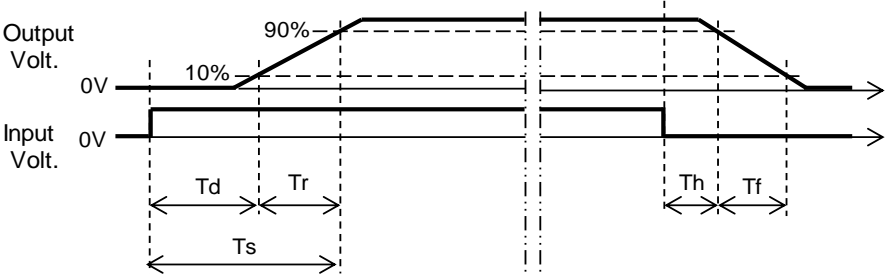


-15V:Load Current is same as +15V

2.Values

[ms]

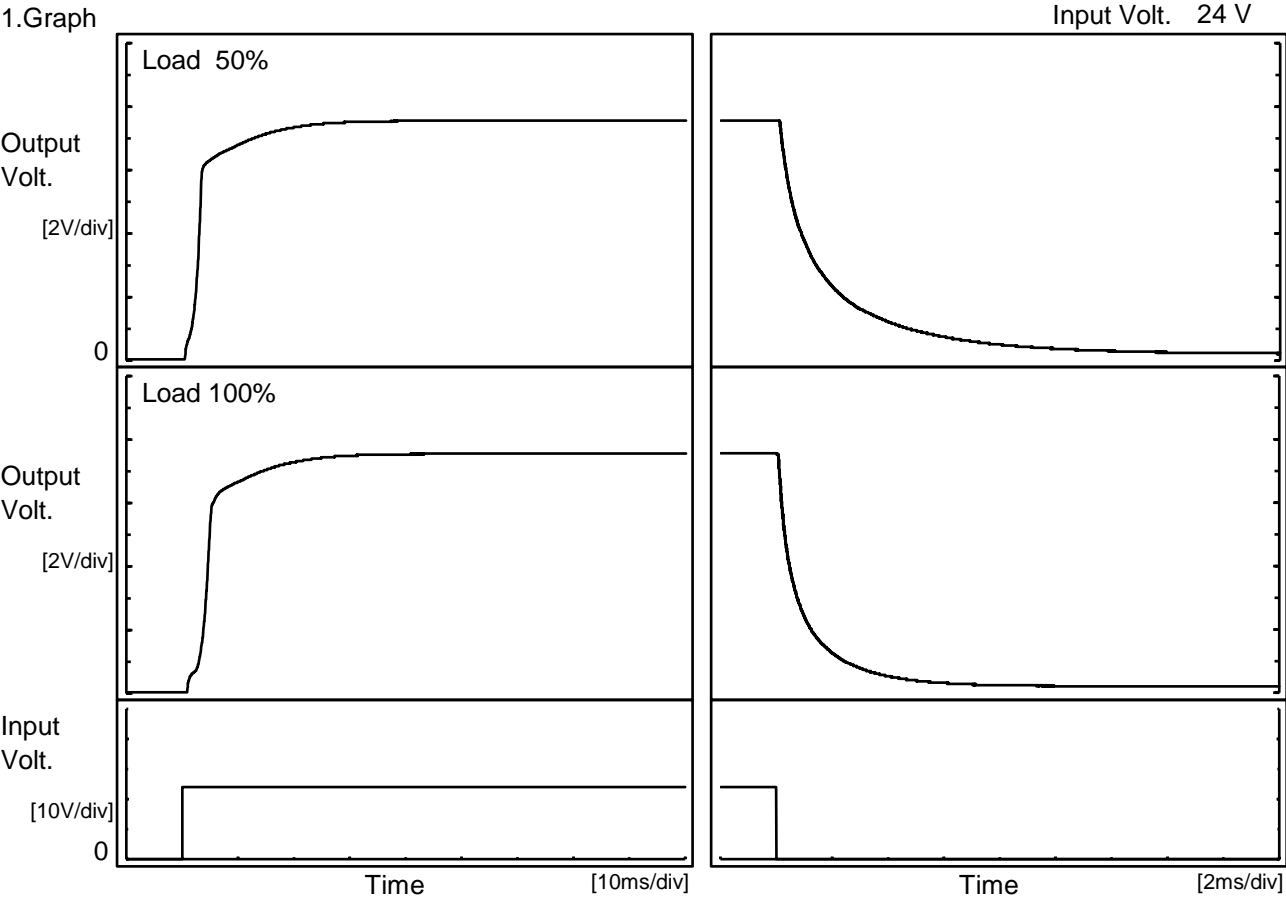
Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1.2	7.6	8.8	0.2	4.7
100 %	2.3	8.0	10.3	0.1	2.4





Model		MUW62415	Temperature     25°C Testing Circuitry   Figure A
Item		Rise and Fall Time	
Object		-15V0.2A	

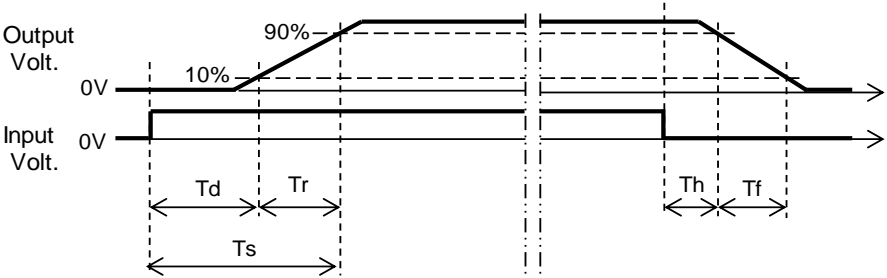
1.Graph



+15V:Load Current is same as -15V

2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.3	8.5	9.8	0.2	5.6
100 %		2.6	8.7	11.3	0.1	2.9



**COSEL**

Model	MUW62415																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V0.2A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 18V</div><div>Input Volt. 24V</div><div>Input Volt. 36V</div></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>14.25</td><td>0.33</td><td>0.37</td><td>0.40</td></tr><tr><td>13.50</td><td>0.36</td><td>0.39</td><td>0.42</td></tr><tr><td>12.00</td><td>0.40</td><td>0.44</td><td>0.47</td></tr><tr><td>10.50</td><td>0.46</td><td>0.50</td><td>0.52</td></tr><tr><td>9.00</td><td>0.51</td><td>0.56</td><td>0.60</td></tr><tr><td>7.50</td><td>0.56</td><td>0.60</td><td>0.61</td></tr><tr><td>6.00</td><td>0.58</td><td>0.61</td><td>0.61</td></tr><tr><td>4.50</td><td>0.60</td><td>0.63</td><td>0.62</td></tr><tr><td>3.00</td><td>0.64</td><td>0.66</td><td>0.64</td></tr><tr><td>1.50</td><td>0.70</td><td>0.70</td><td>0.68</td></tr><tr><td>0.00</td><td>0.84</td><td>0.83</td><td>0.82</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> <div>-15V : Rated Load Current</div>		Output Voltage [V]	Load Current [A]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	14.25	0.33	0.37	0.40	13.50	0.36	0.39	0.42	12.00	0.40	0.44	0.47	10.50	0.46	0.50	0.52	9.00	0.51	0.56	0.60	7.50	0.56	0.60	0.61	6.00	0.58	0.61	0.61	4.50	0.60	0.63	0.62	3.00	0.64	0.66	0.64	1.50	0.70	0.70	0.68	0.00	0.84	0.83	0.82	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																										

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BC-12143

**COSEL**

		Testing Circuitry Figure A
Model	MUW62415	
Item	Ambient Temperature Drift	
Object	+15V0.2A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	15.029	15.031	15.032
25	15.140	15.143	15.143
85	15.172	15.172	15.172

-15V: Load Current is same as +15V

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.2A	

## 1.Values

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

-15V: Load Current is same as +15V



		Testing Circuitry Figure A
Model	MUW62415	
Item	Ambient Temperature Drift	
Object	-15V0.2A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	-15.012	-15.011	-15.012
25	-15.124	-15.124	-15.125
85	-15.160	-15.159	-15.160

+15V: Load Current is same as -15V

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-15V0.2A	

## 1.Values

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

+15V: Load Current is same as -15V

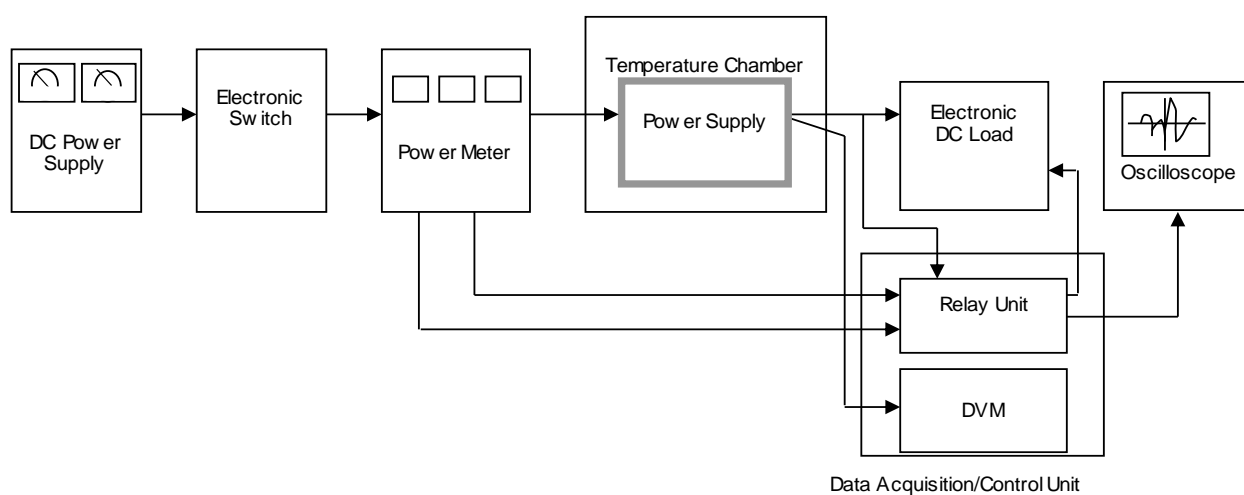


Figure A

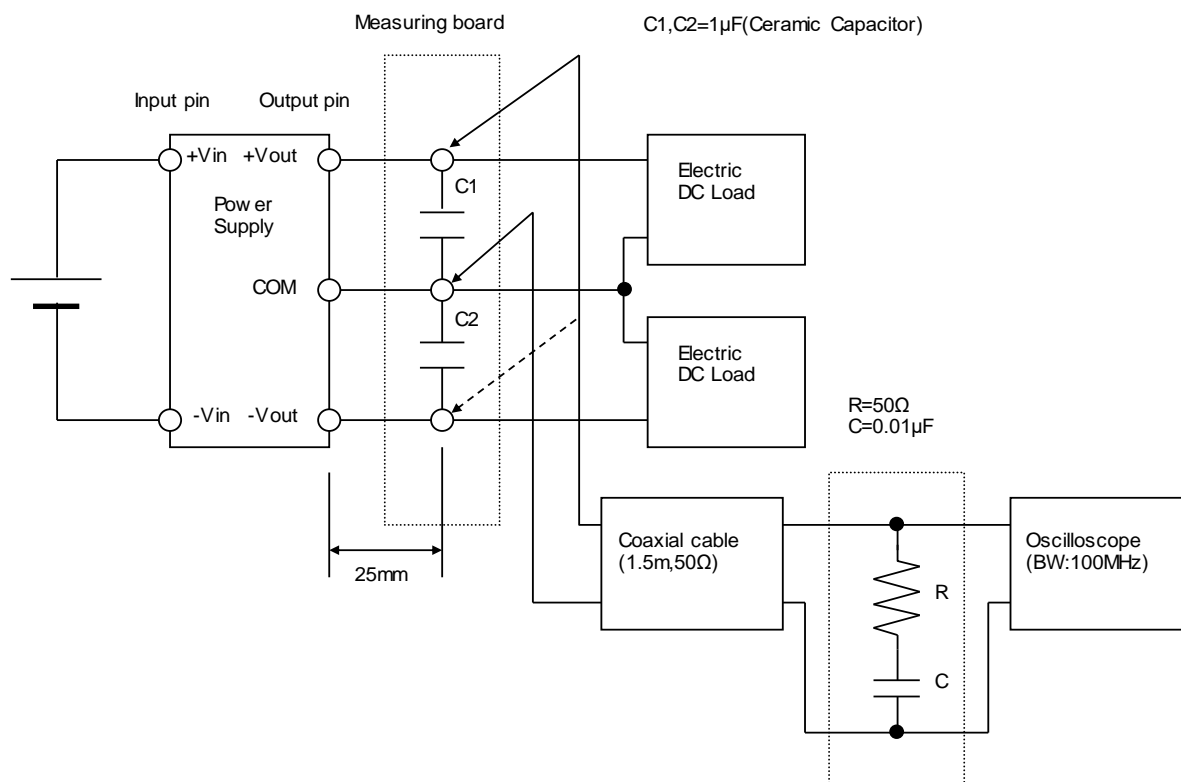


Figure B