

# TEST DATA OF MUW1R51215

Regulated DC Power Supply  
February 6, 2025

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Design Manager

Prepared by : Soichiro Kawaguchi  
Design Engineer

**COSEL CO.,LTD.**



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Model	MUW1R51215	Temperature	25°C																																																	
Item	Input Current (by Load Current)	Testing Circuitry	Figure A																																																	
Object																																																				
1.Graph		2.Values																																																		
<p>Graph showing Input Current [A] vs Load Ratio [%] for three input voltages: 9V, 12V, and 18V.</p> <table border="1"> <thead> <tr> <th>Load Ratio [%]</th> <th>9V [A]</th> <th>12V [A]</th> <th>18V [A]</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.016</td><td>0.012</td><td>0.012</td></tr> <tr><td>20</td><td>0.054</td><td>0.040</td><td>0.031</td></tr> <tr><td>40</td><td>0.087</td><td>0.069</td><td>0.047</td></tr> <tr><td>60</td><td>0.127</td><td>0.094</td><td>0.067</td></tr> <tr><td>80</td><td>0.165</td><td>0.124</td><td>0.082</td></tr> <tr><td>100</td><td>0.203</td><td>0.152</td><td>0.103</td></tr> <tr><td>110</td><td>0.223</td><td>0.167</td><td>0.113</td></tr> </tbody> </table>		Load Ratio [%]	9V [A]	12V [A]	18V [A]	0	0.016	0.012	0.012	20	0.054	0.040	0.031	40	0.087	0.069	0.047	60	0.127	0.094	0.067	80	0.165	0.124	0.082	100	0.203	0.152	0.103	110	0.223	0.167	0.113																			
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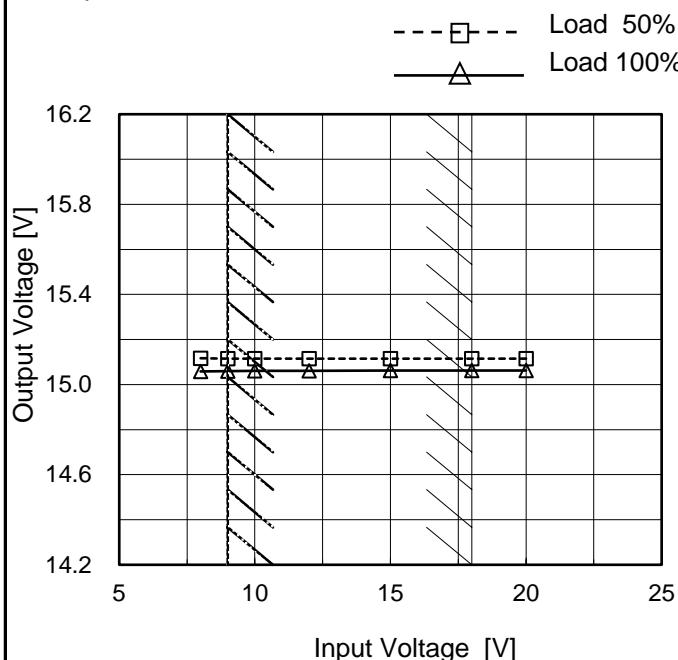
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Model	MUW1R51215
Item	Line Regulation
Object	+15V0.05A

Temperature 25°C  
Testing Circuitry Figure A

## 1.Graph

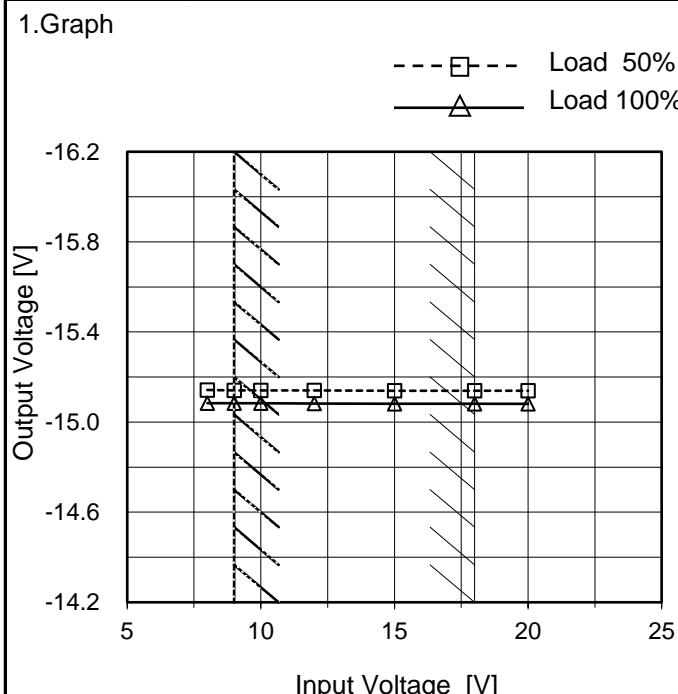


## 2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	15.117	15.058
9	15.115	15.060
10	15.115	15.060
12	15.115	15.061
15	15.116	15.062
18	15.115	15.062
20	15.115	15.062
--	-	-
--	-	-

-15V:Rated Load Current

## Object -15V0.05A



## 2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	-15.143	-15.084
9	-15.141	-15.083
10	-15.140	-15.083
12	-15.140	-15.082
15	-15.139	-15.081
18	-15.140	-15.081
20	-15.140	-15.081
--	-	-
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+15V:Rated Load Current

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

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Object	+15V0.05A	Testing Circuitry	Figure B																																																			
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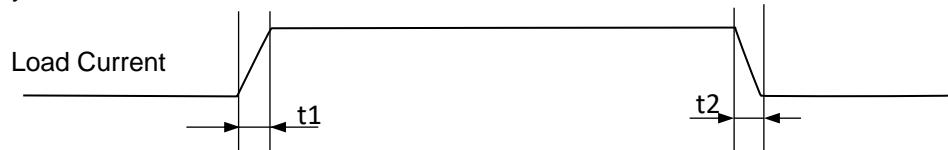
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Model	MUW1R51215	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+15V0.05A		

Input Volt. 12 V

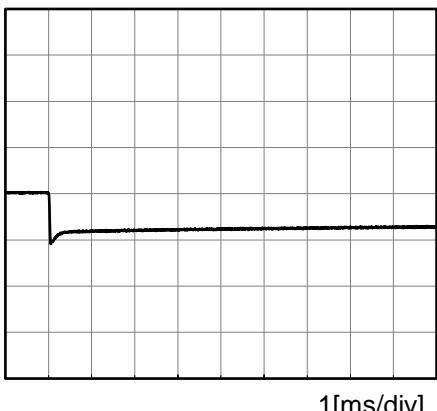
-15V:Rated Load Current

Cycle 1000 ms



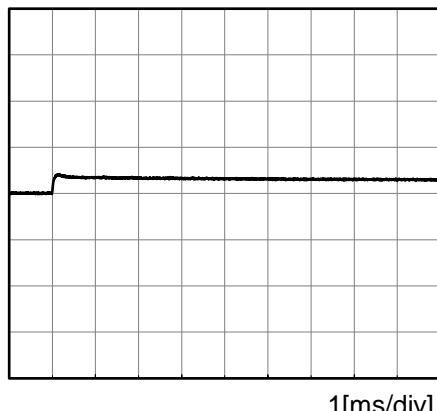
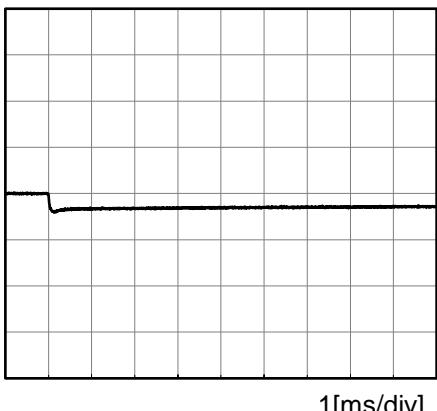
Load 0%(0A) ↔  
Load 100%(0.05A)

200[mV/div]

Response.  $t_1=t_2=50\mu s$ . Typ

Load 50%(0.025A) ↔  
Load 100%(0.05A)

200[mV/div]



-

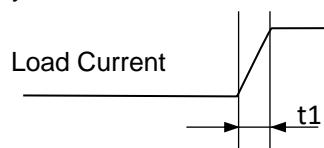
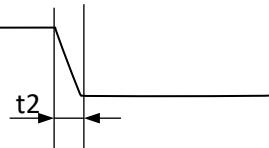
**COSEL**

Model	MUW1R51215	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	-15V0.05A		

Input Volt. 12 V

+15V:Rated Load Current

Cycle 1000 ms

Response.  $t_1=t_2=50\mu s$ . Typ

Load 0%(0A)  $\longleftrightarrow$   
Load 100%(0.05A)

200[mV/div]

1[ms/div]

1[ms/div]

Load 50%(0.025A)  $\longleftrightarrow$   
Load 100%(0.05A)

200[mV/div]

1[ms/div]

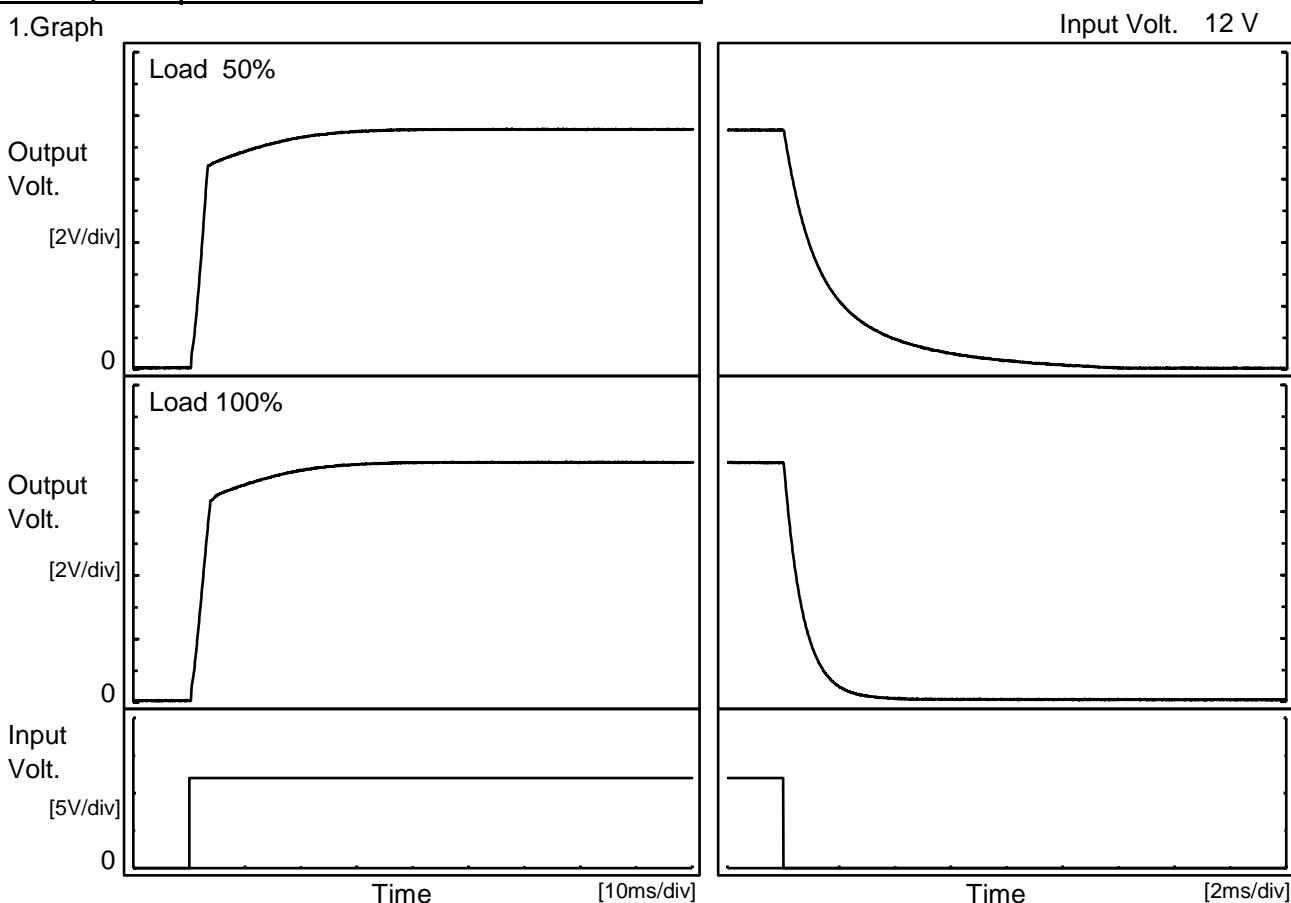
1[ms/div]

**COSEL**

Model	MUW1R51215
Item	Rise and Fall Time
Object	+15V0.05A

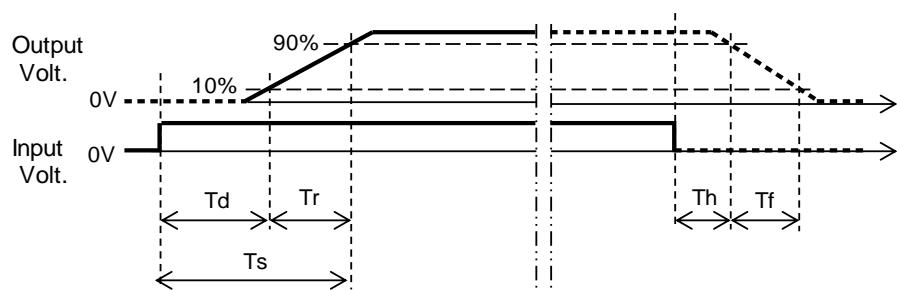
Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



## 2. Values

Load	Time	Td	Tr	Ts	Th	Tf
50 %		0.7	7.7	8.4	0.2	4.5
100 %		0.8	7.9	8.7	0.1	1.5

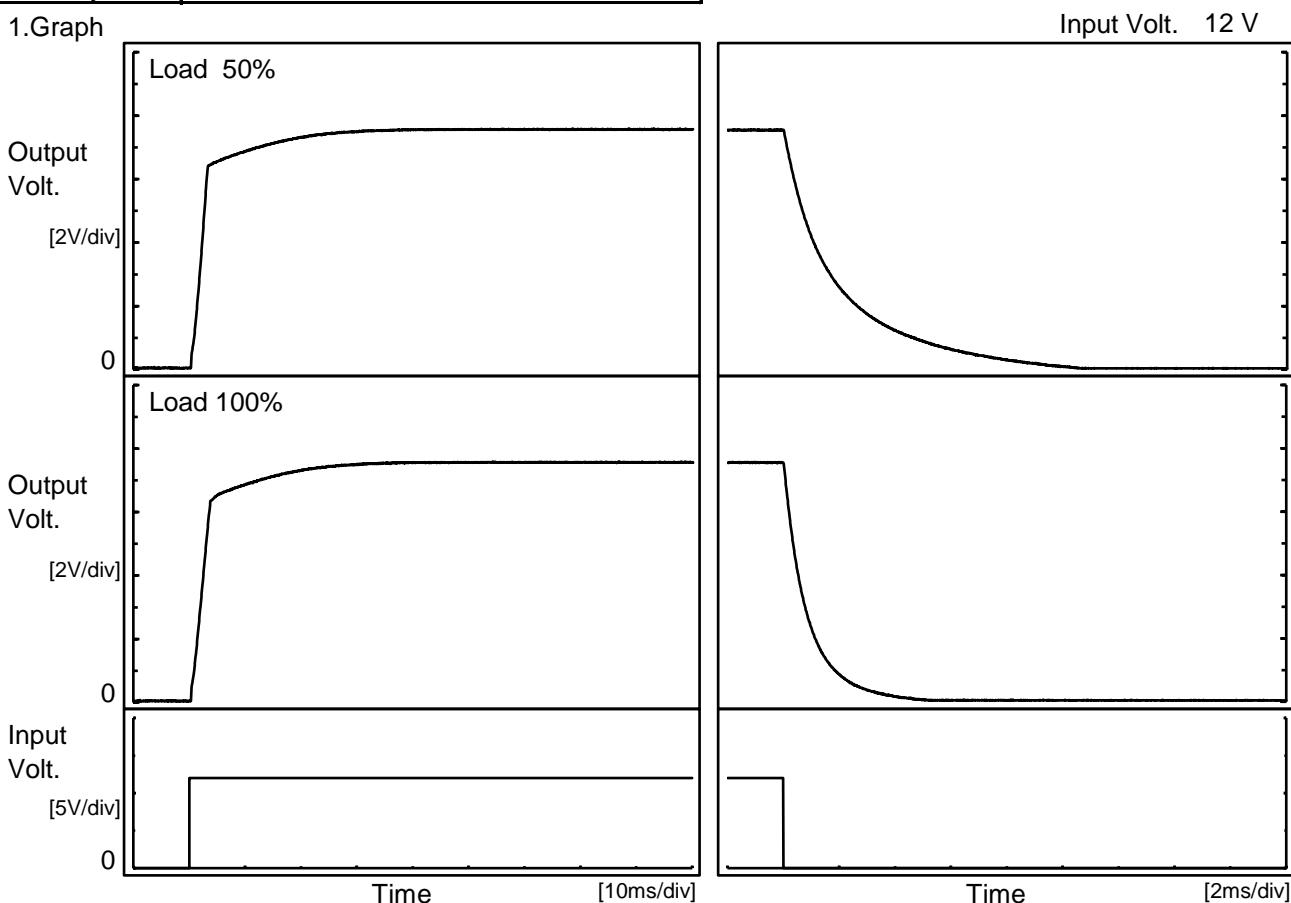


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Model	MUW1R51215
Item	Rise and Fall Time
Object	-15V0.05A

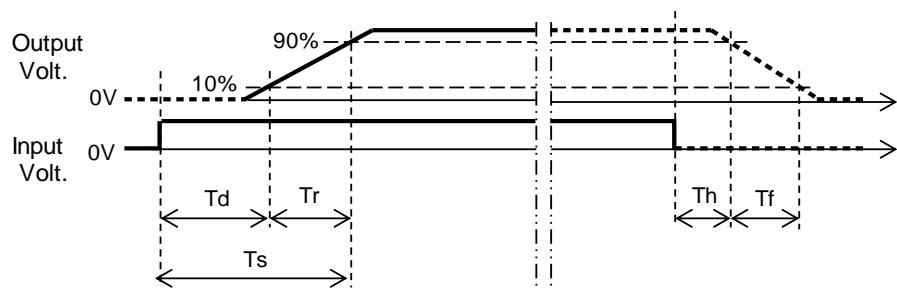
Temperature 25°C  
Testing Circuitry Figure A

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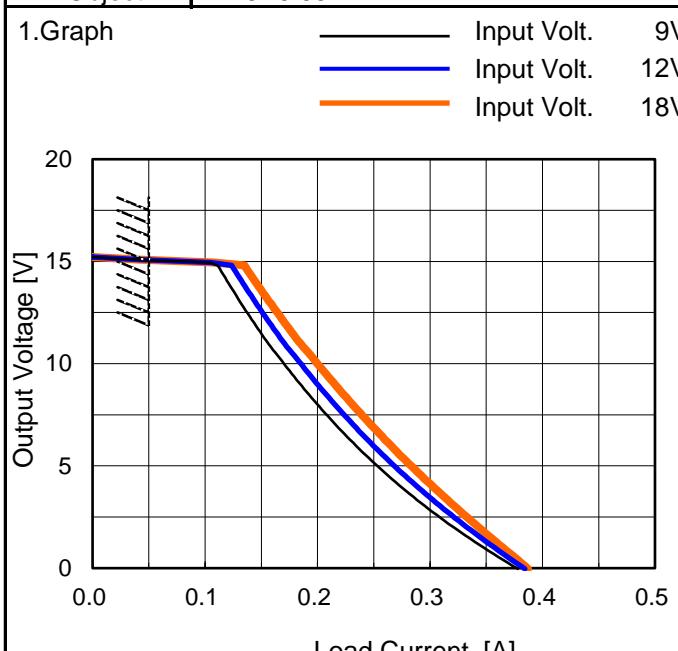
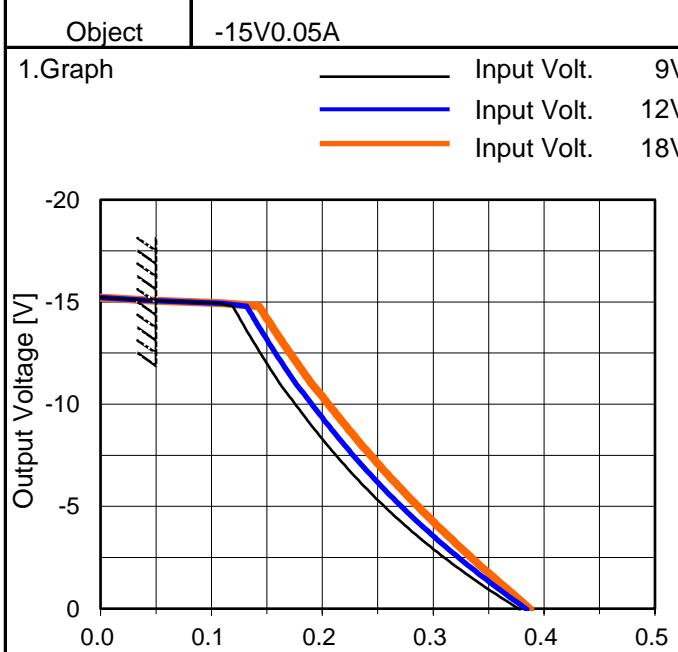


## 2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		0.8	7.7	8.5	0.2	5.2	
100 %		0.7	8.0	8.7	0.1	2.0	



**COSEL**

Model	MUW1R51215	Temperature Testing Circuitry	25°C Figure A																																																							
Item	Overcurrent Protection																																																									
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	Note: Slanted line shows the range of the rated load current.																																																									



Model	MUW1R51215	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	+15V0.05A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	14.956	14.958	14.959
25	15.067	15.068	15.069
85	15.093	15.094	15.095

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.05A	

## 1.Values

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



Model	MUW1R51215	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	-15V0.05A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	-14.971	-14.971	-14.971
25	-15.080	-15.079	-15.079
85	-15.107	-15.106	-15.105

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-15V0.05A	

## 1.Values

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

**COSEL**

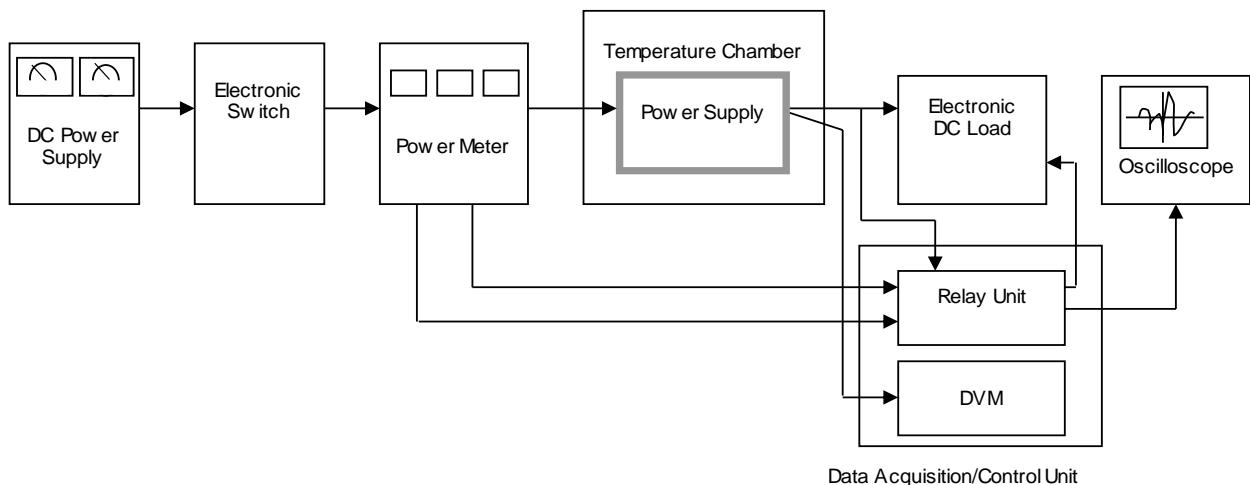


Figure A

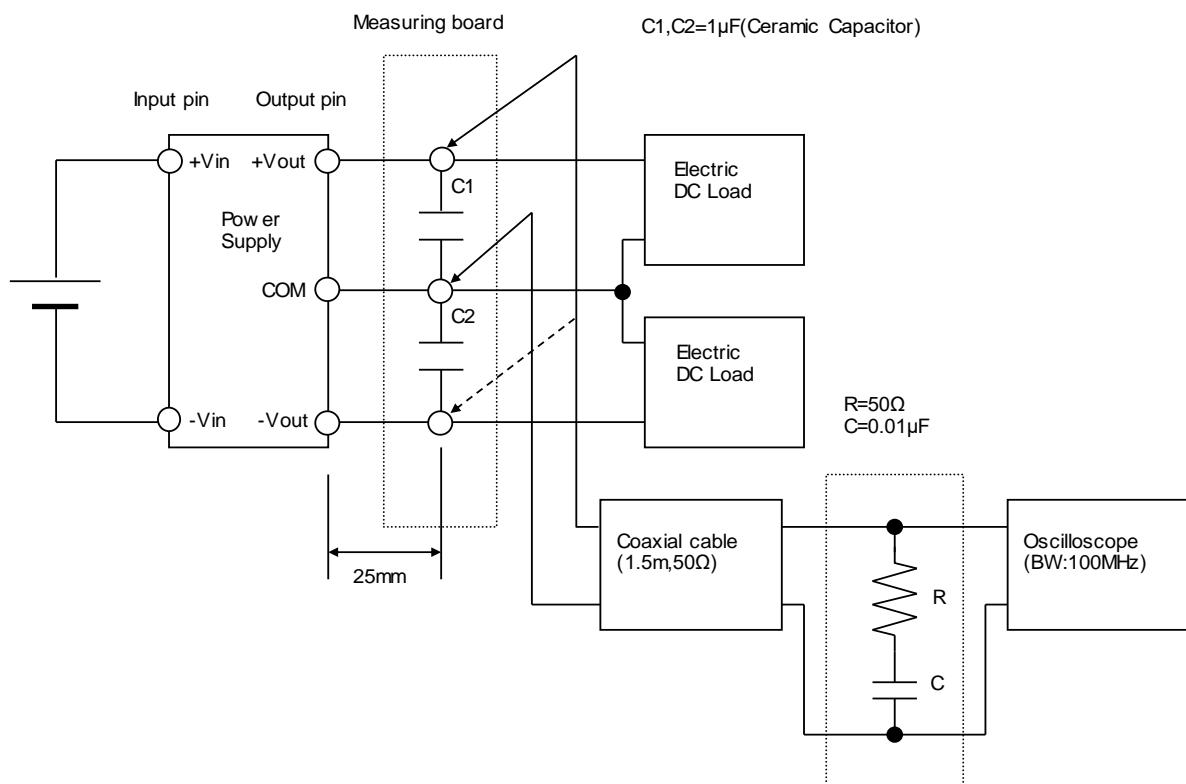


Figure B