

# TEST DATA OF MUS102405

Regulated DC Power Supply  
July 1, 2025

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Design Manager

Prepared by : Soichiro Kawaguchi  
Design Engineer

**COSEL CO.,LTD.**

## CONTENTS

1.Input Current (by Load Current) . . . . .	1
2.Efficiency (by Load Current) . . . . .	2
3.Line Regulation . . . . .	3
4.Load Regulation . . . . .	4
5.Ripple-Noise . . . . .	4
6.Dynamic Load Response . . . . .	5
7.Rise and Fall Time . . . . .	6
8.Overcurrent Protection . . . . .	7
9.Ambient Temperature Drift . . . . .	8
10.Minimum Input Voltage for Regulated Output Voltage . . . . .	8
11.Figure of Testing Circuitry . . . . .	9

(Final Page 9)

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Model	MUS102405																																																					
Item	Input Current (by Load Current)	Temperature	25°C																																																			
Object	_____	Testing Circuitry	Figure A																																																			
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<div><div>—△—</div>Input Volt. 18V</div> <div><div>---□---</div>Input Volt. 24V</div> <div><div>---○---</div>Input Volt. 36V</div> <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">Input 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>0.0</td><td>0.017</td><td>0.013</td><td>0.011</td></tr><tr><td>0.4</td><td>0.136</td><td>0.106</td><td>0.073</td></tr><tr><td>0.8</td><td>0.256</td><td>0.195</td><td>0.131</td></tr><tr><td>1.2</td><td>0.382</td><td>0.284</td><td>0.191</td></tr><tr><td>1.6</td><td>0.507</td><td>0.379</td><td>0.253</td></tr><tr><td>2.0</td><td>0.635</td><td>0.473</td><td>0.316</td></tr><tr><td>2.2</td><td>0.701</td><td>0.520</td><td>0.347</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>		Load Current [A]	Input Current [A]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	0.017	0.013	0.011	0.4	0.136	0.106	0.073	0.8	0.256	0.195	0.131	1.2	0.382	0.284	0.191	1.6	0.507	0.379	0.253	2.0	0.635	0.473	0.316	2.2	0.701	0.520	0.347	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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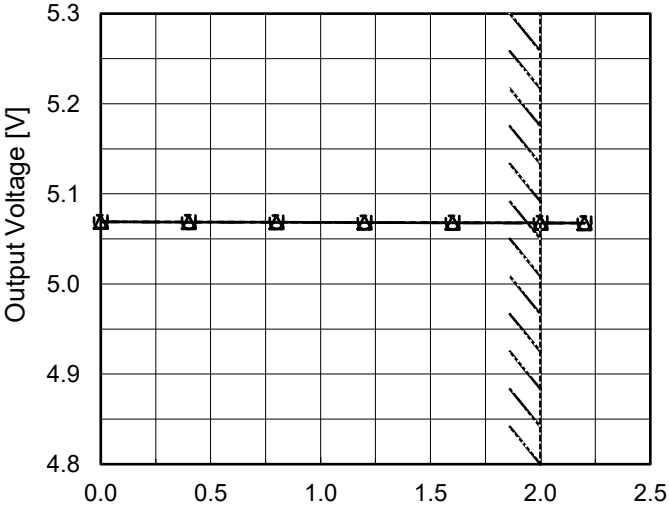
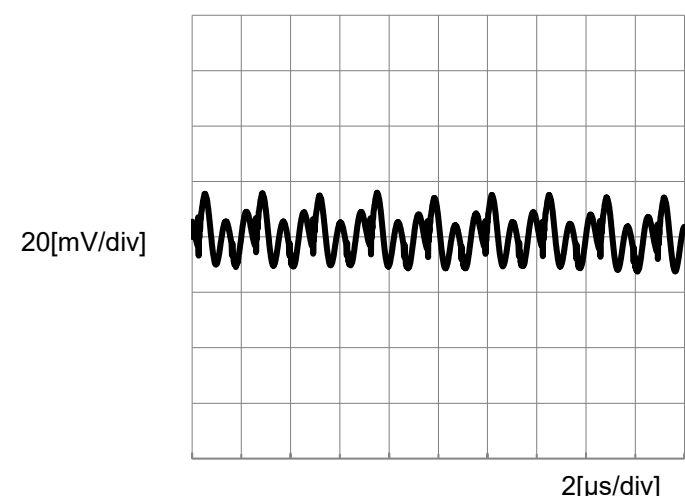
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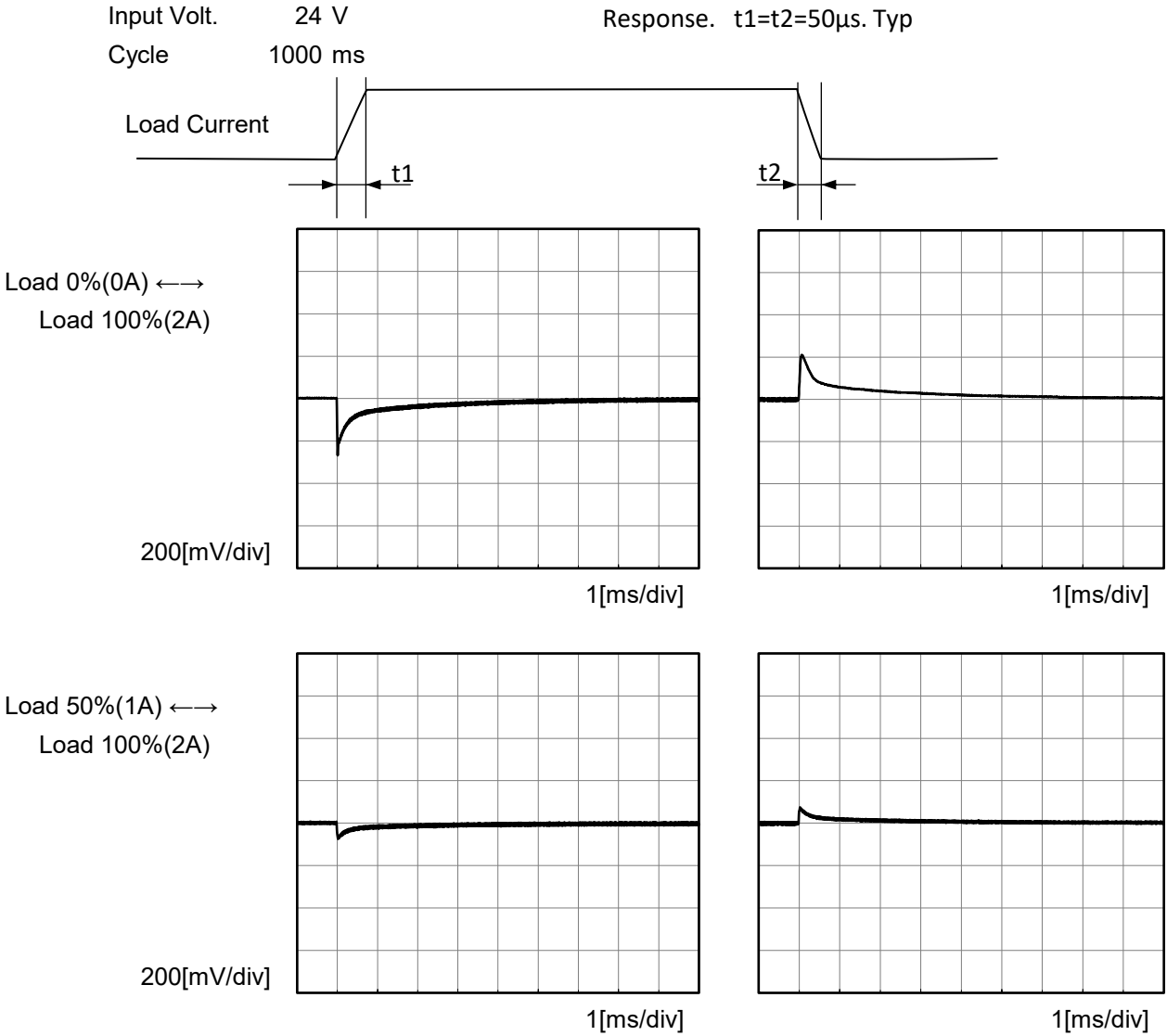
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Model		MUS102405	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V2A	

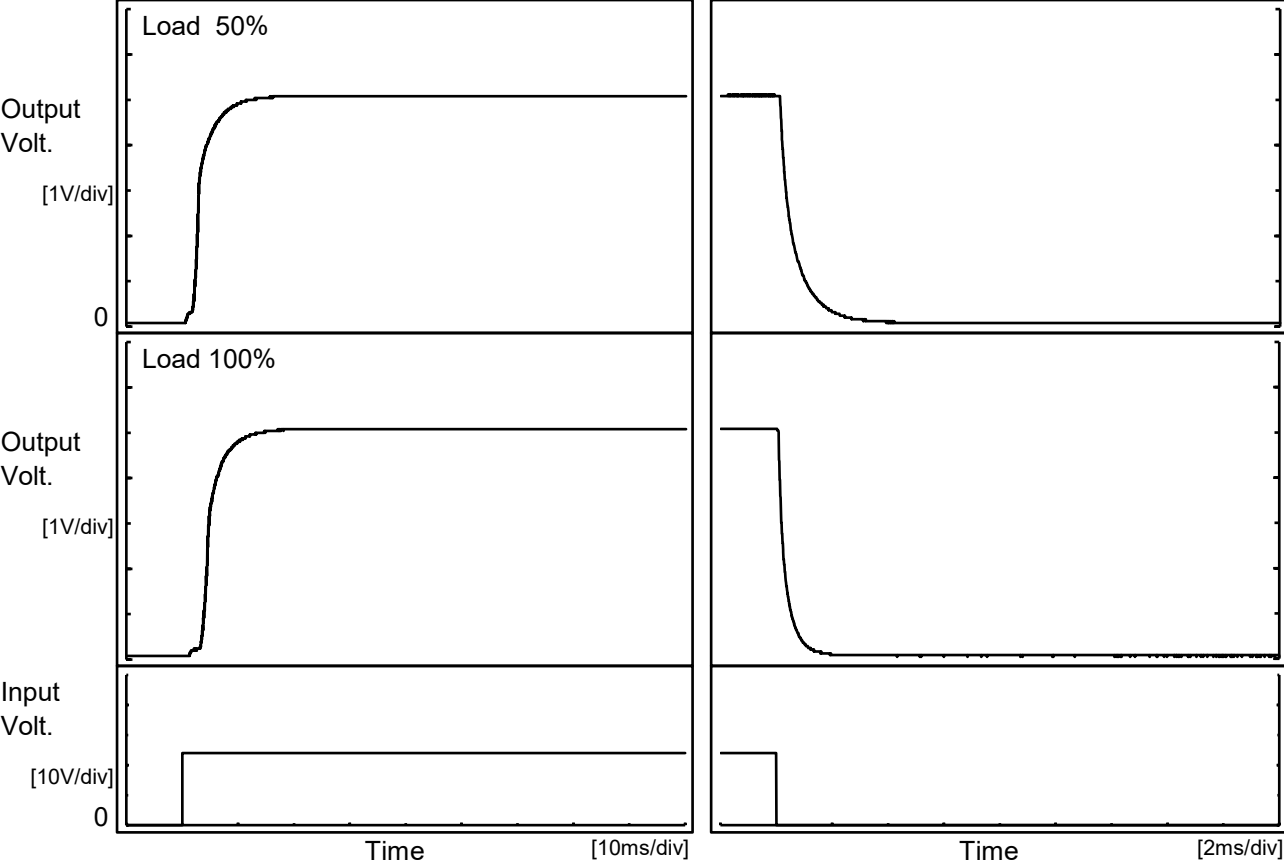




Model		MUS102405	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V2A	

1.Graph

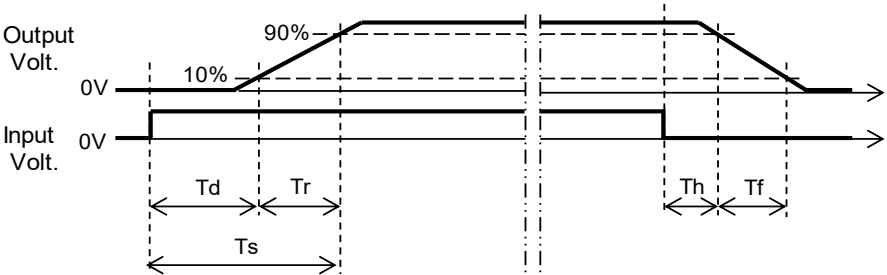
Input Volt. 24 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	2.0	4.5	6.5	0.2	1.4
100 %	3.6	4.4	8.0	0.1	0.7





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		Testing Circuitry Figure A
Model	MUS102405	
Item	Ambient Temperature Drift	
Object	+5V2A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	5.049	5.049	5.049
25	5.068	5.068	5.068
85	5.059	5.059	5.059

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+5V2A	

## 1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.6	13.6
25	13.7	13.6
85	13.7	13.7

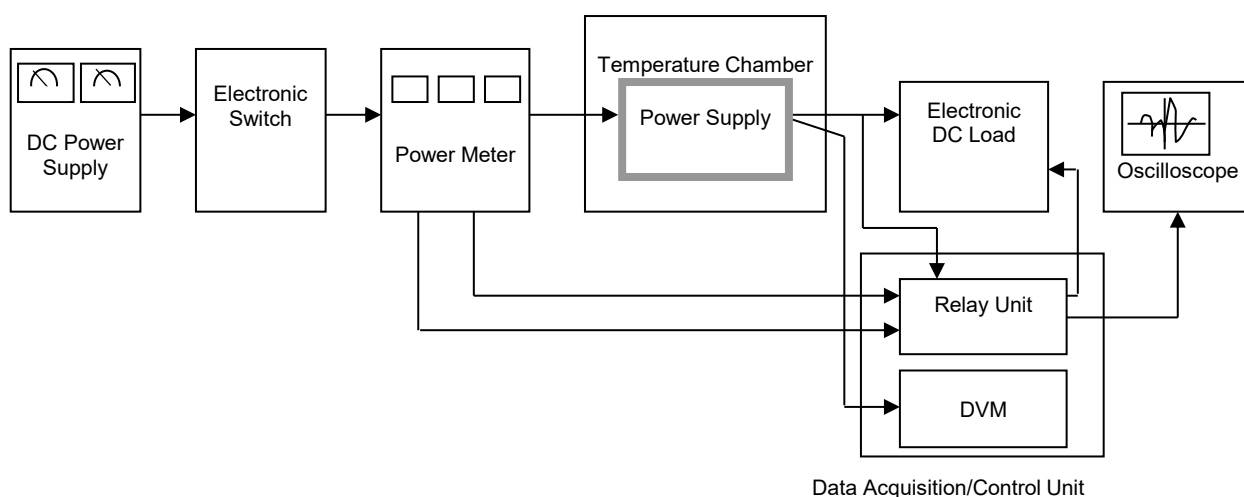


Figure A

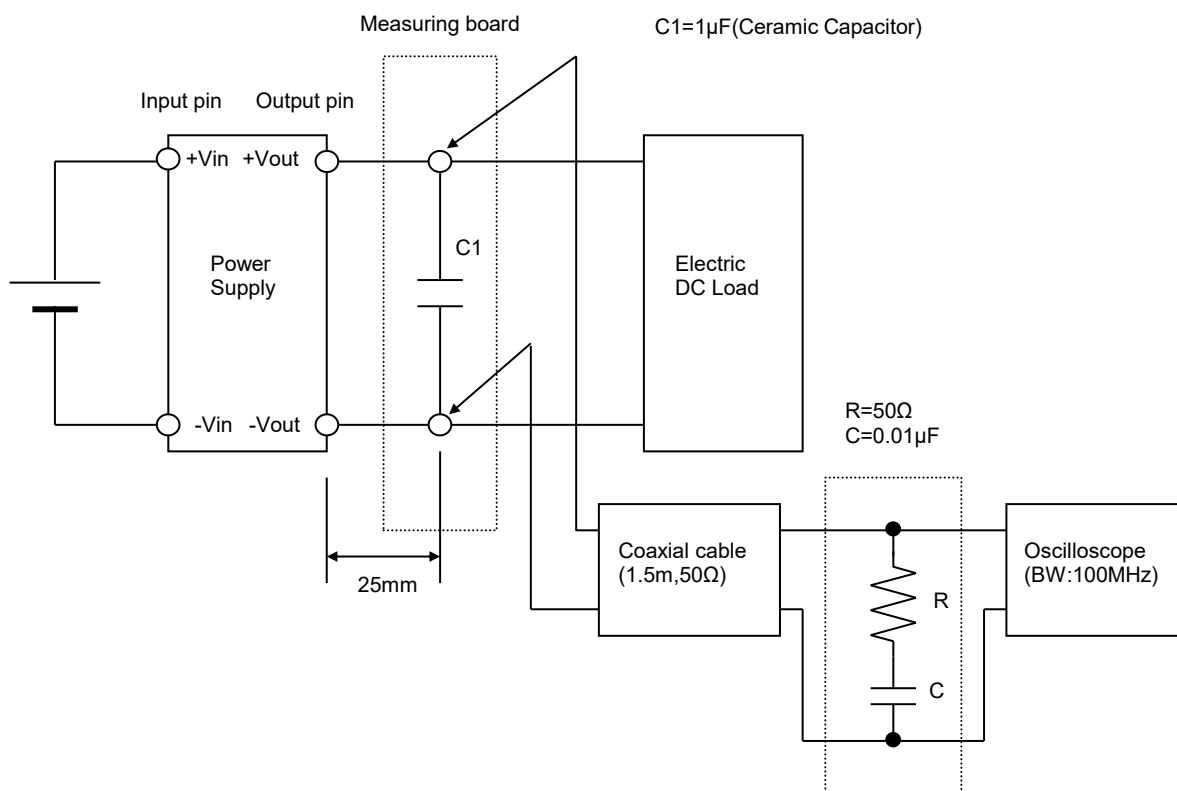


Figure B