

TEST DATA OF MUS31205

Regulated DC Power Supply
February 3, 2025

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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(Final Page 9)

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Model		MUS31205	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
Object		_____																																																						
1.Graph			2.Values																																																					
<div><div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div>---□---</div><div>Input Volt.</div><div>12V</div></div><div><div>---○---</div><div>Input Volt.</div><div>18V</div></div></div> <p>Input Current [A]</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">Input Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>0.00</td><td>0.006</td><td>0.006</td><td>0.004</td></tr><tr><td>0.12</td><td>0.078</td><td>0.061</td><td>0.043</td></tr><tr><td>0.24</td><td>0.157</td><td>0.120</td><td>0.081</td></tr><tr><td>0.36</td><td>0.228</td><td>0.172</td><td>0.121</td></tr><tr><td>0.48</td><td>0.315</td><td>0.236</td><td>0.160</td></tr><tr><td>0.60</td><td>0.384</td><td>0.289</td><td>0.196</td></tr><tr><td>0.66</td><td>0.438</td><td>0.327</td><td>0.220</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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.00	0.006	0.006	0.004	0.12	0.078	0.061	0.043	0.24	0.157	0.120	0.081	0.36	0.228	0.172	0.121	0.48	0.315	0.236	0.160	0.60	0.384	0.289	0.196	0.66	0.438	0.327	0.220	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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LUXEL

Model	MUS31205
Item	Line Regulation
Object	+5V0.6A

Temperature	25°C
Testing Circuitry	Figure A

1.Graph

---□---

Load 50%

—△—

Load 100%

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

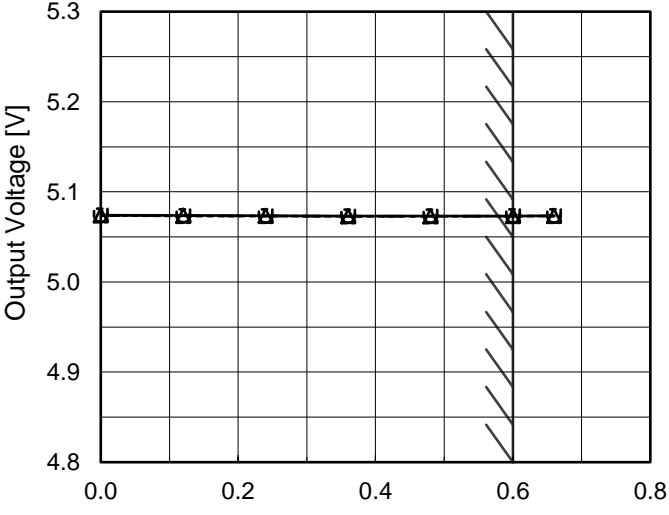
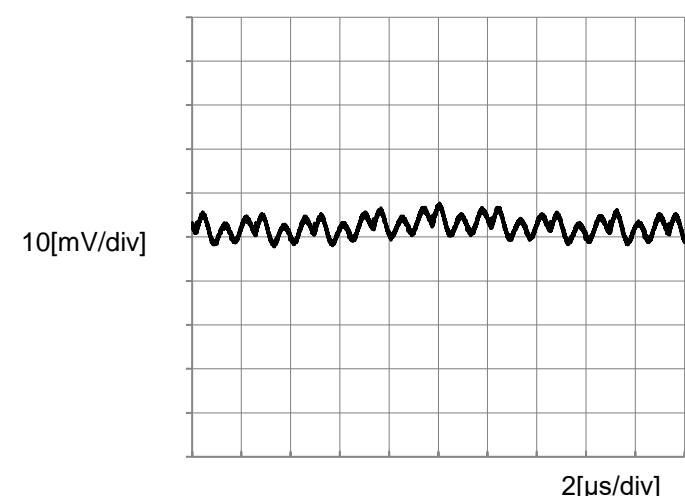
2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	5.073	5.074
9	5.073	5.074
10	5.073	5.074
12	5.073	5.074
15	5.073	5.074
18	5.073	5.074
20	5.073	5.074
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- 3 -

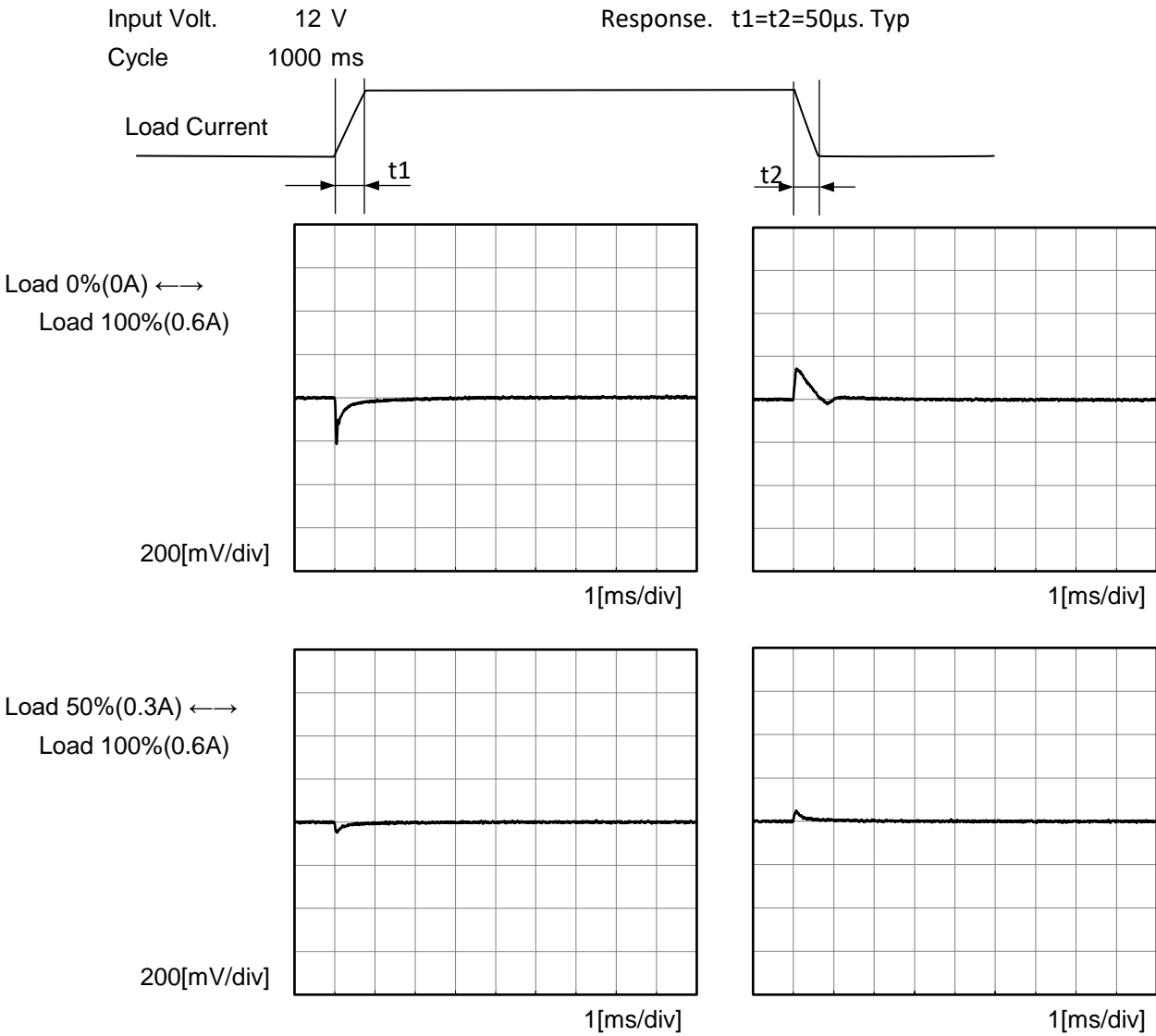
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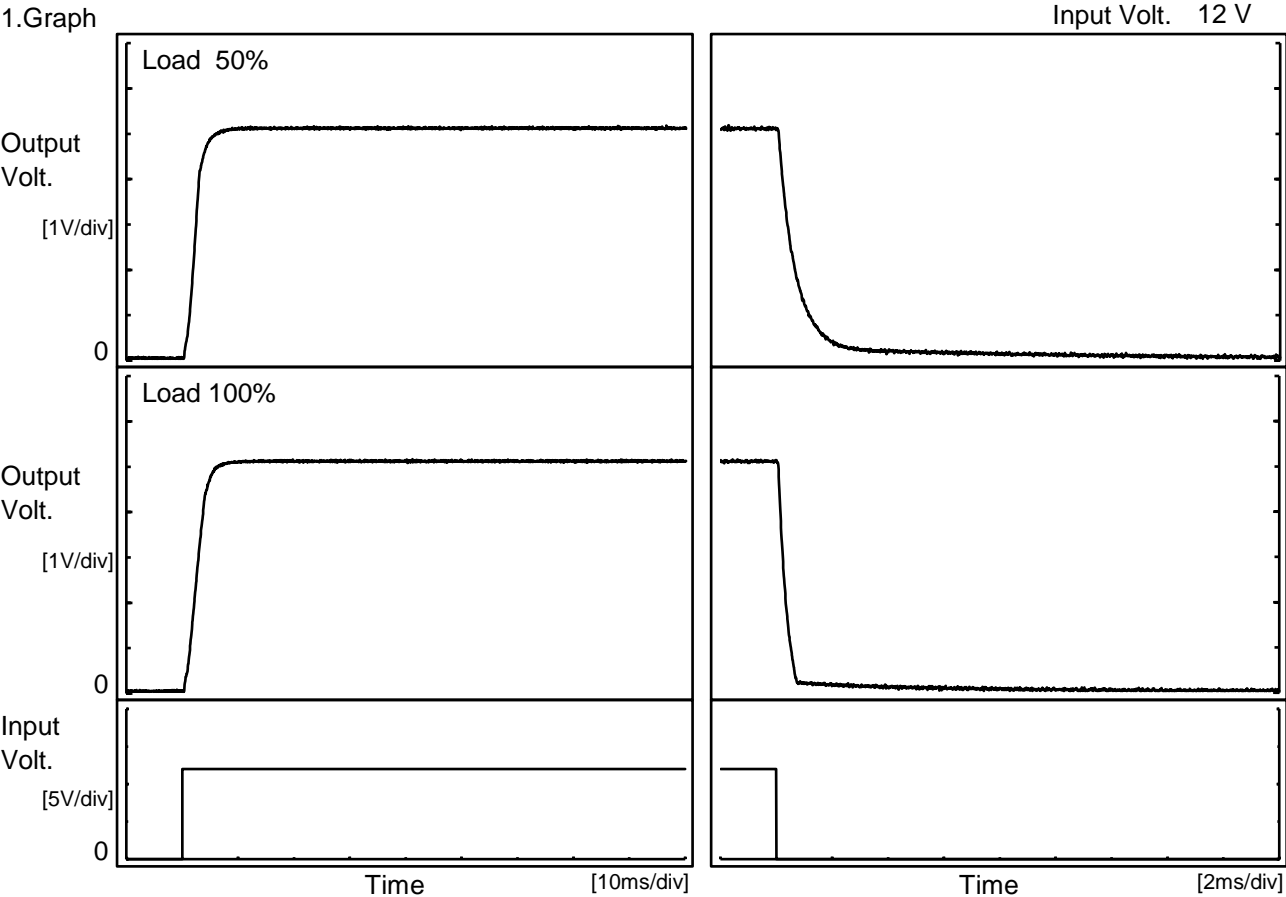
Model		MUS31205	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V0.6A	





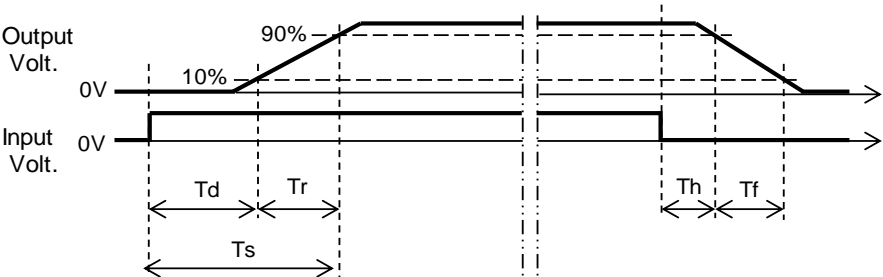
Model		MUS31205	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V0.6A	

1.Graph



2.Values

		[ms]				
Load \ Time		Td	Tr	Ts	Th	Tf
50 %		0.9	3.0	3.9	0.1	1.6
100 %		1.0	3.5	4.5	0.1	0.5



LODEL

Model	MUS31205	Temperature	25°C
Item	Overcurrent Protection	Testing Circuitry	Figure A
Object	+5V0.6A		

1.Graph

Legend:

- Input Volt. 9V (Black line)
- Input Volt. 12V (Blue line)
- Input Volt. 18V (Orange line)

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

2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
4.75	0.91	0.97	1.01
4.50	0.94	1.01	1.03
4.00	1.01	1.07	1.10
3.50	1.08	1.15	1.18
3.00	1.16	1.23	1.26
2.50	1.25	1.32	1.35
2.00	1.36	1.42	1.45
1.50	1.49	1.56	1.58
1.00	1.65	1.70	1.71
0.50	1.83	1.86	1.84
0.00	2.06	2.06	2.02
--	-	-	-



COSEL		Testing Circuitry Figure A
Model	MUS31205	
Item	Ambient Temperature Drift	
Object	+5V0.6A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	5.029	5.031	5.032
25	5.073	5.074	5.074
85	5.080	5.080	5.080

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+5V0.6A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	7.2	7.2
25	7.2	7.2
85	7.2	7.2

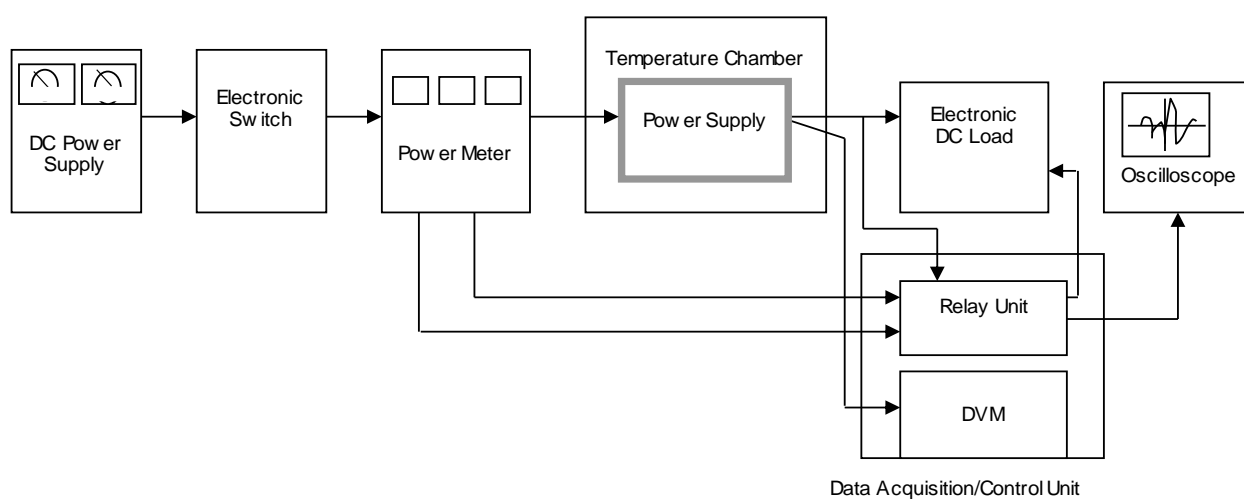


Figure A

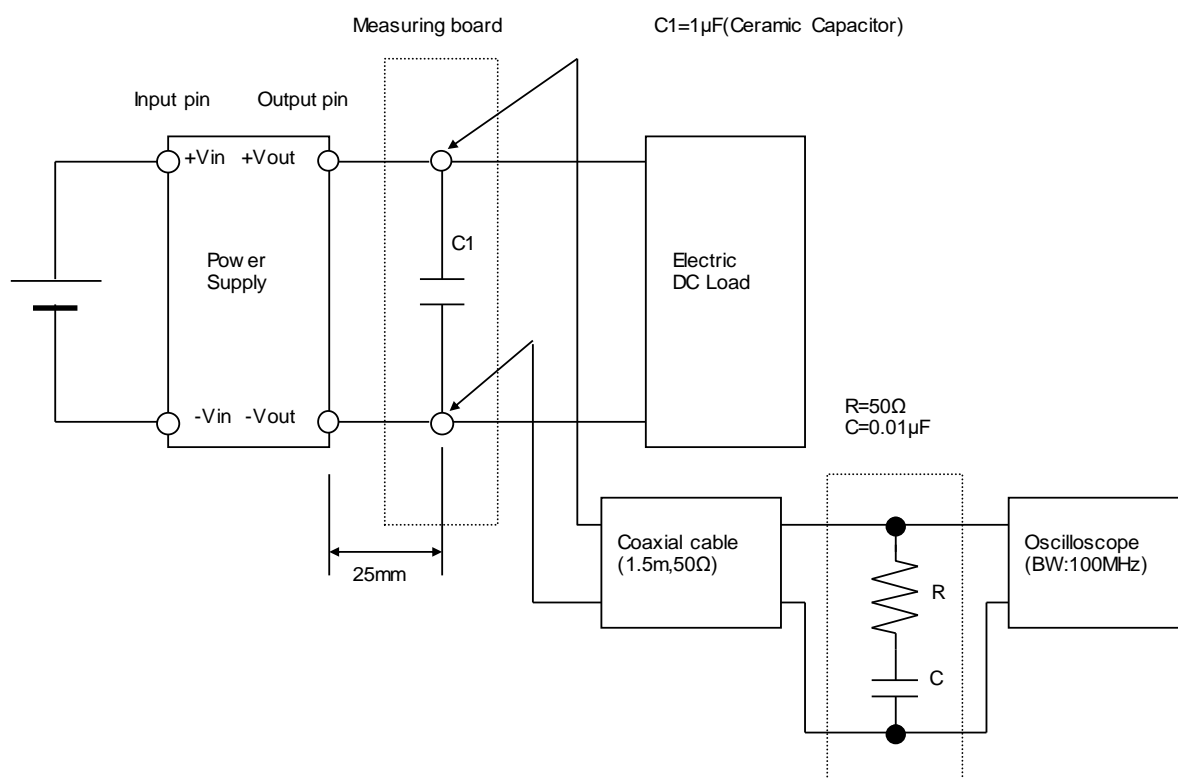


Figure B