



TEST DATA OF MUS152412

Regulated DC Power Supply
July 1, 2026

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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Model		MUS152412	Temperature 25°C																																																				
Item		Input Current (by Load Current)	Testing Circuitry Figure A																																																				
Object		_____																																																					
1.Graph		—△— Input Volt. 18V ---□--- Input Volt. 24V -·-○-·- Input Volt. 36V Input Current [A] Load Current [A] Note: Slanted line shows the range of the rated load current.	2.Values																																																				
			<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>0.000</td><td>0.015</td><td>0.010</td><td>0.006</td></tr><tr><td>0.250</td><td>0.196</td><td>0.146</td><td>0.109</td></tr><tr><td>0.500</td><td>0.367</td><td>0.284</td><td>0.194</td></tr><tr><td>0.750</td><td>0.553</td><td>0.414</td><td>0.285</td></tr><tr><td>1.000</td><td>0.736</td><td>0.549</td><td>0.369</td></tr><tr><td>1.250</td><td>0.922</td><td>0.686</td><td>0.460</td></tr><tr><td>1.375</td><td>1.011</td><td>0.755</td><td>0.506</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]	0.000	0.015	0.010	0.006	0.250	0.196	0.146	0.109	0.500	0.367	0.284	0.194	0.750	0.553	0.414	0.285	1.000	0.736	0.549	0.369	1.250	0.922	0.686	0.460	1.375	1.011	0.755	0.506	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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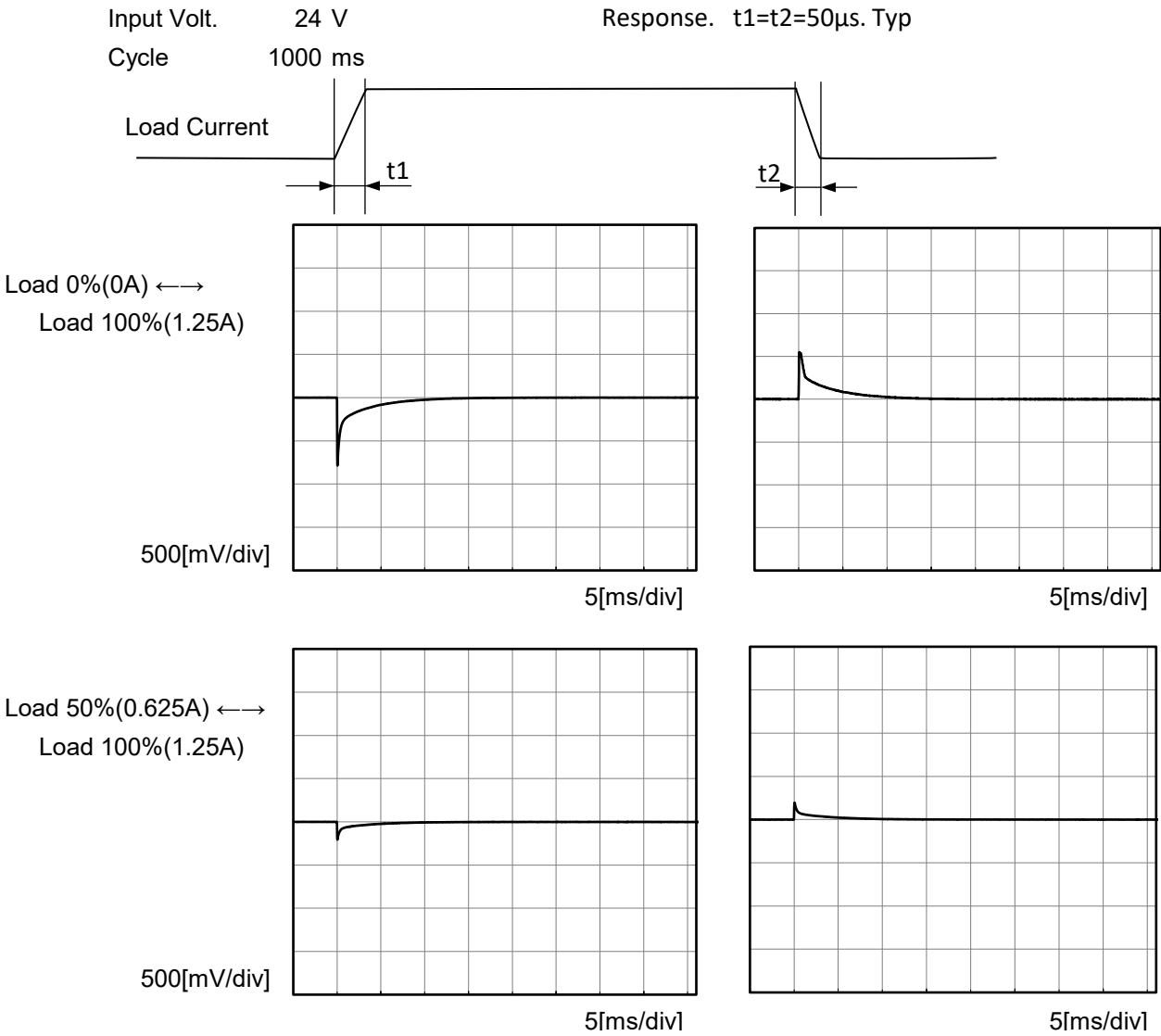
LUCEL																																			
Model	MUS152412																																		
Item	Line Regulation	Temperature	25°C																																
Object	+12V1.25A	Testing Circuitry	Figure A																																
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Load 50% Load 100% Output Voltage [V] 12.6 12.4 12.2 12.0 11.8 11.6 10 20 30 40 Input Voltage [V] Note: Slanted line shows the range of the rated input voltage.		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>16</td><td>12.029</td><td>12.029</td></tr><tr><td>18</td><td>12.029</td><td>12.029</td></tr><tr><td>20</td><td>12.030</td><td>12.029</td></tr><tr><td>24</td><td>12.030</td><td>12.029</td></tr><tr><td>30</td><td>12.030</td><td>12.029</td></tr><tr><td>36</td><td>12.030</td><td>12.030</td></tr><tr><td>40</td><td>12.030</td><td>12.030</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	16	12.029	12.029	18	12.029	12.029	20	12.030	12.029	24	12.030	12.029	30	12.030	12.029	36	12.030	12.030	40	12.030	12.030	--	-	-	--	-	-
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Model	MUS152412		
Item	Load Regulation	Temperature	25°C
Object	+12V1.25A	Testing Circuitry	Figure A
1.Graph		2.Values	
Input Volt. 18V Input Volt. 24V Input Volt. 36V Output Voltage [V]			



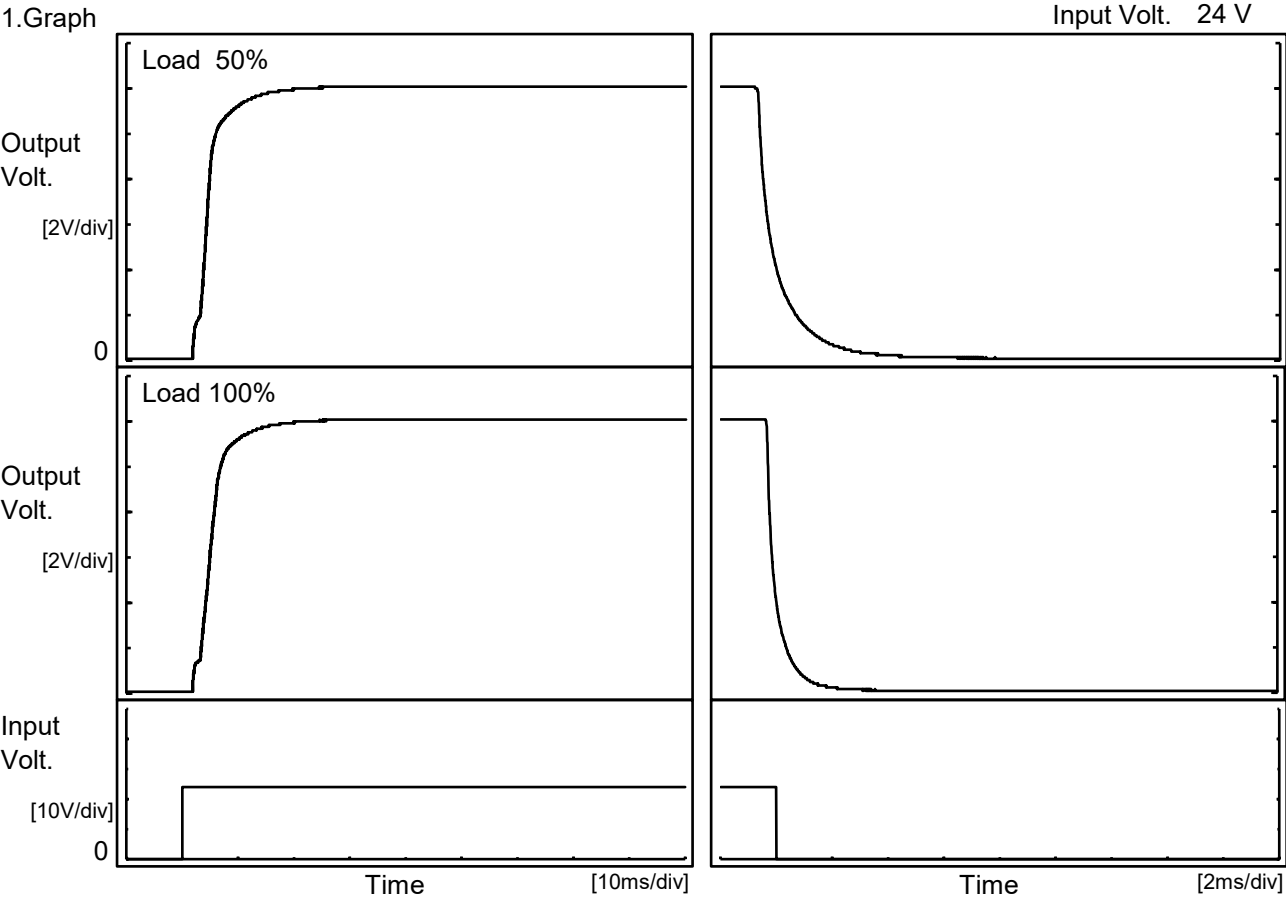
Model		MUS152412	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+12V1.25A	





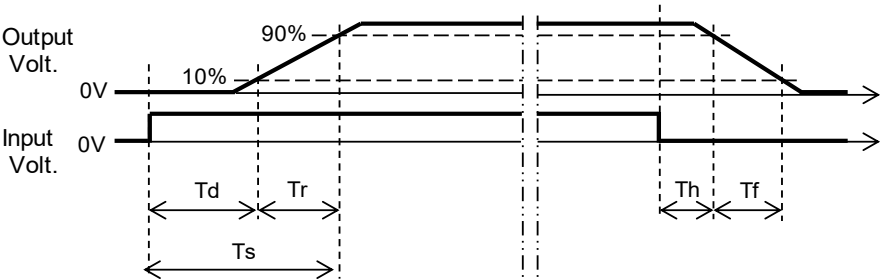
Model		MUS152412	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+12V1.25A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.2	6.0	8.2	0.6	1.8
100 %		2.4	5.9	8.3	0.3	0.9



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Model		MUS152412	Temperature		25°C																																																							
Item		Overcurrent Protection	Testing Circuitry		Figure A																																																							
Object		+12V1.25A																																																										
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Input Volt. Input Volt. Input Volt. 18V 24V 36V Note: Slanted line shows the range of the rated load current.			<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>12.0</td><td>1.85</td><td>2.06</td><td>2.29</td></tr><tr><td>11.4</td><td>-</td><td>-</td><td>-</td></tr><tr><td>10.8</td><td>-</td><td>-</td><td>-</td></tr><tr><td>9.6</td><td>-</td><td>-</td><td>-</td></tr><tr><td>8.4</td><td>-</td><td>-</td><td>-</td></tr><tr><td>7.2</td><td>-</td><td>-</td><td>-</td></tr><tr><td>6.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.8</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3.6</td><td>-</td><td>-</td><td>-</td></tr><tr><td>2.4</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.2</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr></table>			Output Voltage [V]	Load Current [A]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	12.0	1.85	2.06	2.29	11.4	-	-	-	10.8	-	-	-	9.6	-	-	-	8.4	-	-	-	7.2	-	-	-	6.0	-	-	-	4.8	-	-	-	3.6	-	-	-	2.4	-	-	-	1.2	-	-	-	0.0	-	-	-
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Model		MUS152412	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+12V1.25A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	11.983	11.983	11.985
25	12.029	12.029	12.030
85	12.020	12.021	12.021

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+12V1.25A	

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

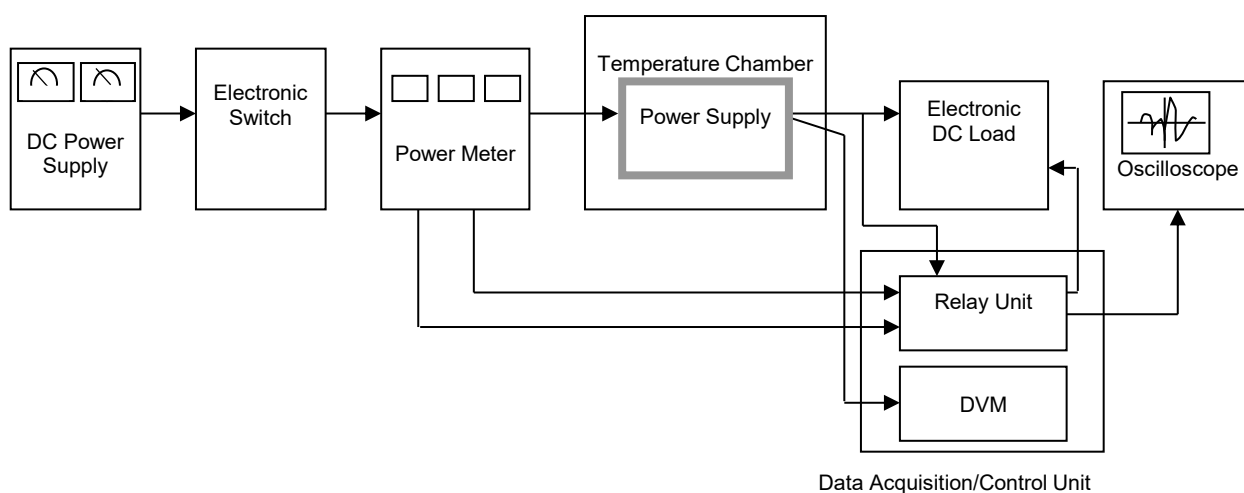


Figure A

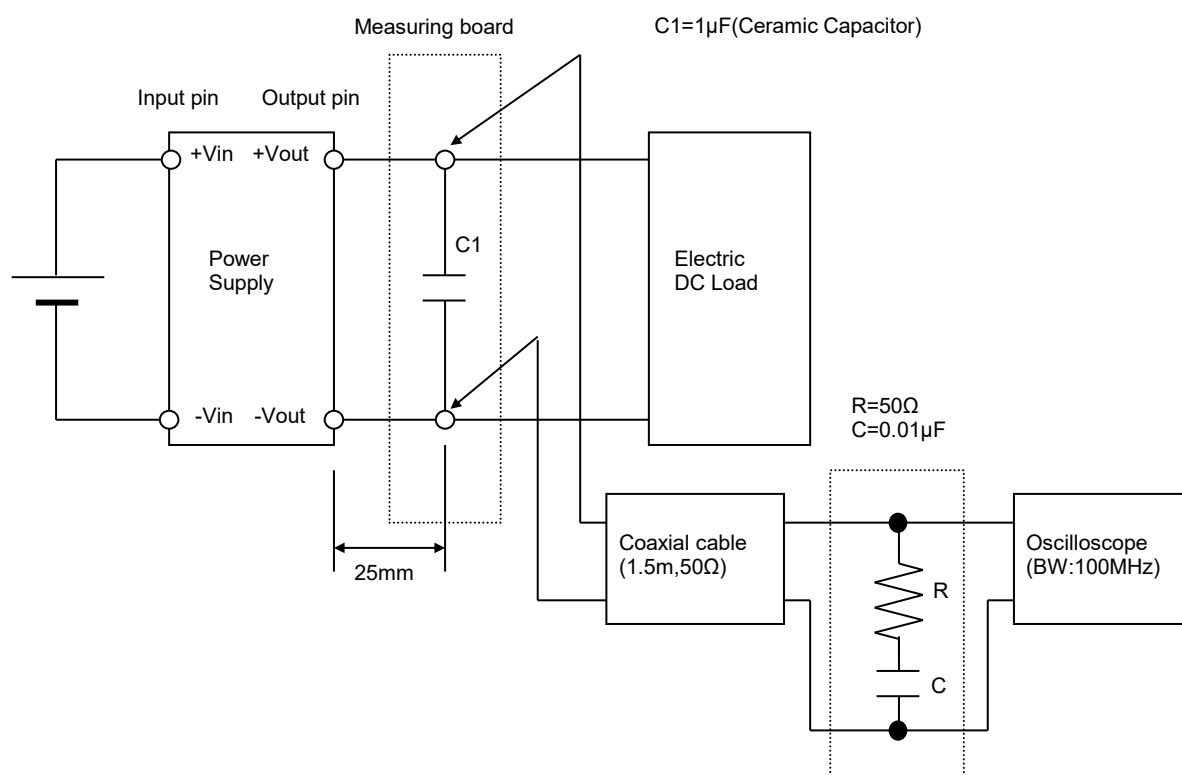


Figure B