



TEST DATA OF MUS302415

Regulated DC Power Supply
July 27, 2026

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Design Manager

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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)

Model		MUS302415	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>0.0</td><td>0.059</td><td>0.053</td><td>0.046</td></tr><tr><td>0.4</td><td>0.389</td><td>0.299</td><td>0.210</td></tr><tr><td>0.8</td><td>0.731</td><td>0.554</td><td>0.378</td></tr><tr><td>1.2</td><td>1.081</td><td>0.813</td><td>0.549</td></tr><tr><td>1.6</td><td>1.436</td><td>1.074</td><td>0.722</td></tr><tr><td>2.0</td><td>1.805</td><td>1.348</td><td>0.905</td></tr><tr><td>2.2</td><td>1.980</td><td>1.484</td><td>0.991</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	0.059	0.053	0.046	0.4	0.389	0.299	0.210	0.8	0.731	0.554	0.378	1.2	1.081	0.813	0.549	1.6	1.436	1.074	0.722	2.0	1.805	1.348	0.905	2.2	1.980	1.484	0.991	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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ModelMUS302415 ItemEfficiency (by Load Current) Object		Temperature25°C Testing CircuitryFigure A																																																			
1.Graph —△— Input Volt. 18V ---□--- Input Volt. 24V -·-○-·- Input Volt. 36V Efficiency [%] 100 90 80 70 60 0.0 1.0 2.0 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">Efficiency [%]</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>-</td><td>-</td><td>-</td></tr><tr><td>0.4</td><td>85.4</td><td>83.1</td><td>78.8</td></tr><tr><td>0.8</td><td>91.3</td><td>90.2</td><td>87.9</td></tr><tr><td>1.2</td><td>92.8</td><td>92.4</td><td>91.0</td></tr><tr><td>1.6</td><td>93.0</td><td>93.0</td><td>92.4</td></tr><tr><td>2.0</td><td>92.7</td><td>92.8</td><td>92.2</td></tr><tr><td>2.2</td><td>92.6</td><td>92.8</td><td>92.4</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]	Efficiency [%]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	-	-	-	0.4	85.4	83.1	78.8	0.8	91.3	90.2	87.9	1.2	92.8	92.4	91.0	1.6	93.0	93.0	92.4	2.0	92.7	92.8	92.2	2.2	92.6	92.8	92.4	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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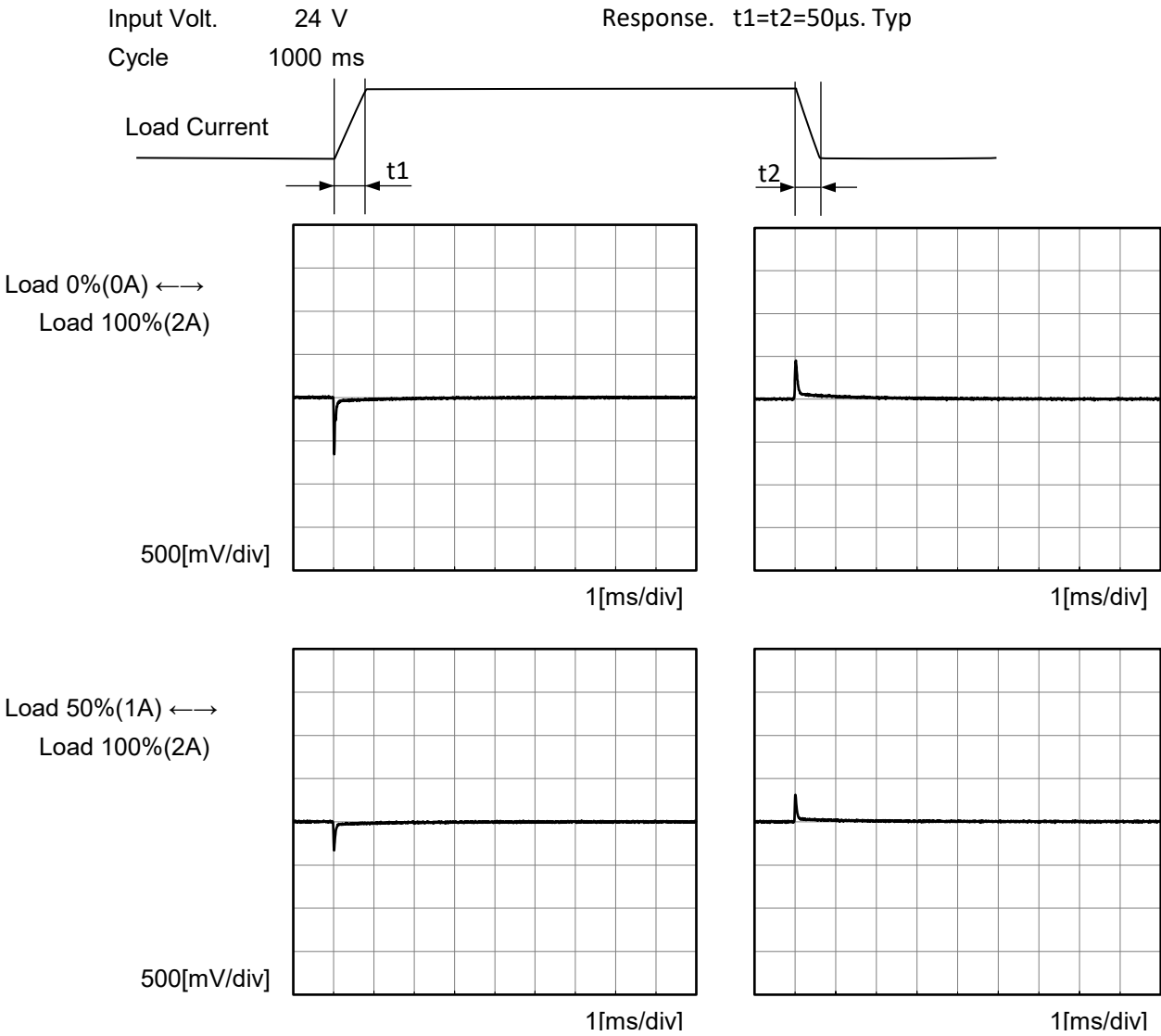
Model		MUS302415	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+15V2A			
1.Graph			2.Values		

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Model	MUS302415		
Item	Load Regulation	Temperature	25°C
Object	+15V2A	Testing Circuitry	Figure A
1.Graph		2.Values	
—△— Input Volt. 18V ---□--- Input Volt. 24V ---○--- Input Volt. 36V Output Voltage [V] <			



Model		MUS302415	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+15V2A	

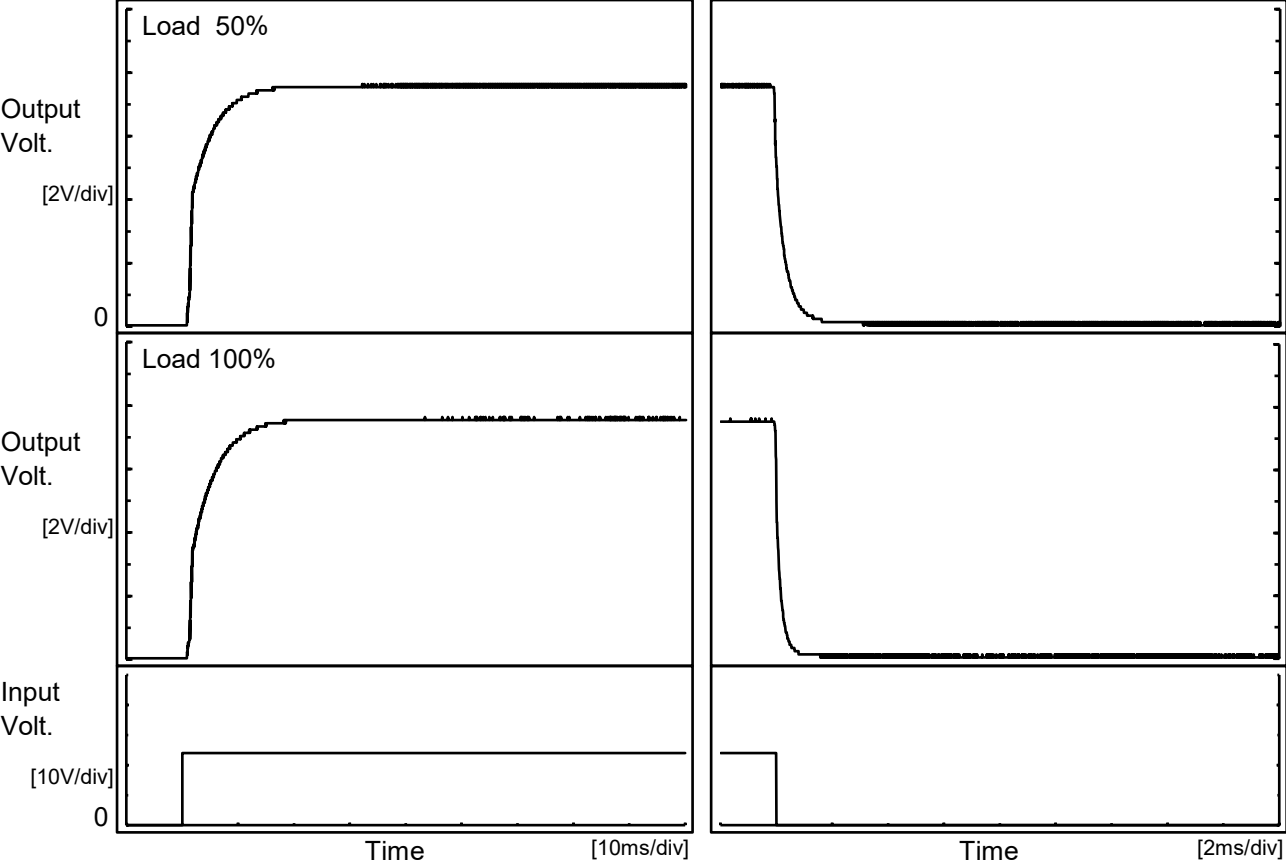




Model		MUS302415	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+15V2A	

1.Graph

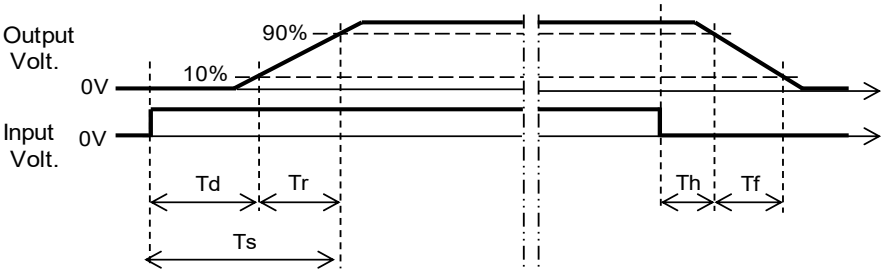
Input Volt. 24 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1.2	6.6	7.8	0.1	0.8
100 %	1.4	7.7	9.1	0.0	0.4



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Model	MUS302415																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V2A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
Input Volt. 18V Input Volt. 24V Input Volt. 36V Note: Slanted line shows the range of the rated load current. Overcurrent protection is Hiccup mode.		<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>15.0</td><td>3.11</td><td>3.29</td><td>3.11</td></tr><tr><td>14.3</td><td>-</td><td>-</td><td>-</td></tr><tr><td>13.5</td><td>-</td><td>-</td><td>-</td></tr><tr><td>12.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>10.5</td><td>-</td><td>-</td><td>-</td></tr><tr><td>9.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>7.5</td><td>-</td><td>-</td><td>-</td></tr><tr><td>6.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.5</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.5</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]	15.0	3.11	3.29	3.11	14.3	-	-	-	13.5	-	-	-	12.0	-	-	-	10.5	-	-	-	9.0	-	-	-	7.5	-	-	-	6.0	-	-	-	4.5	-	-	-	3.0	-	-	-	1.5	-	-	-	0.0	-	-	-
Output Voltage [V]	Load Current [A]																																																									
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0.0	-	-	-																																																							



Model		MUS302415	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+15V2A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	14.912	14.912	14.911
25	15.018	15.017	15.015
85	15.050	15.049	15.046

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+15V2A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.8	13.8
25	13.8	13.9
85	13.9	13.9

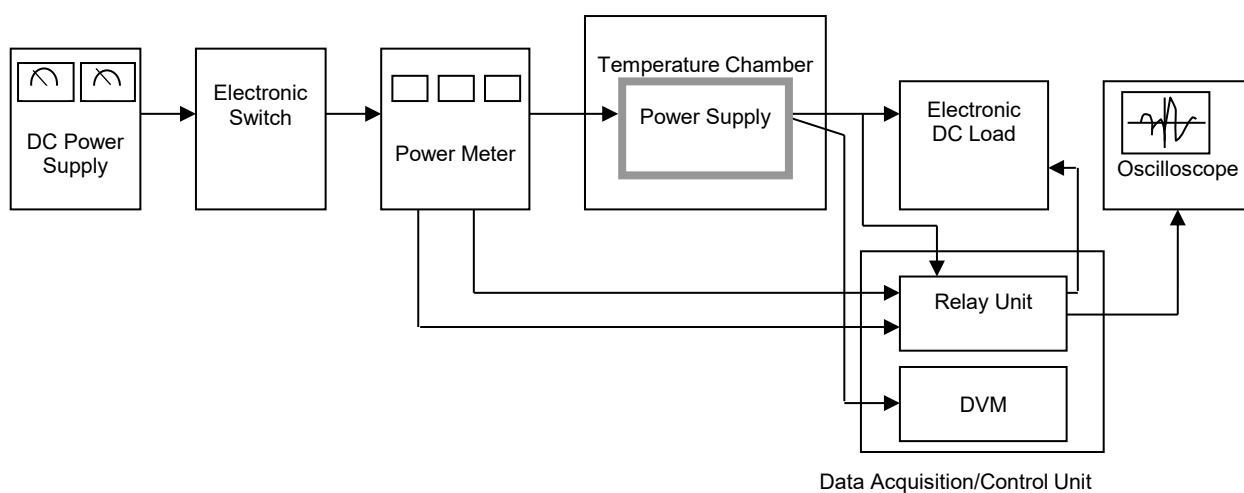


Figure A

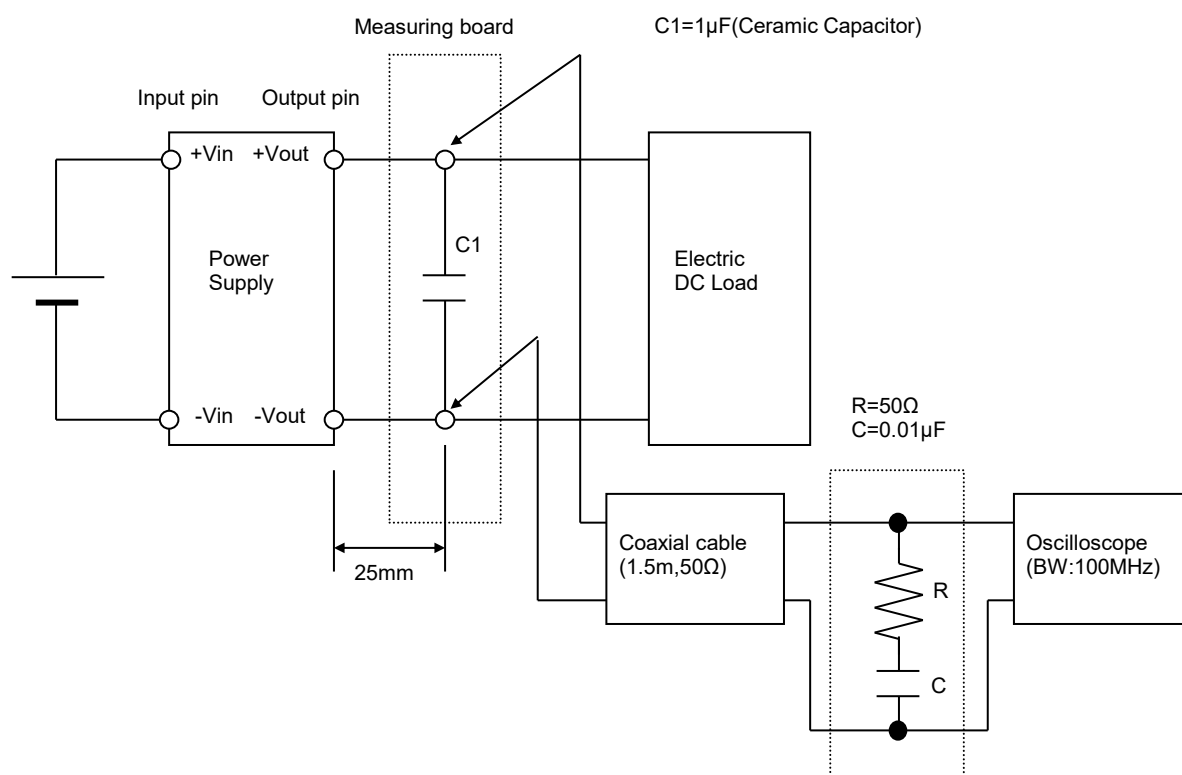


Figure B