



TEST DATA OF MUS30483R3

Regulated DC Power Supply
July 27, 2026

Approved by : Masahiro Shima
Design Manager

Prepared by : Kosei Oba
Design Engineer

COSEL CO.,LTD.

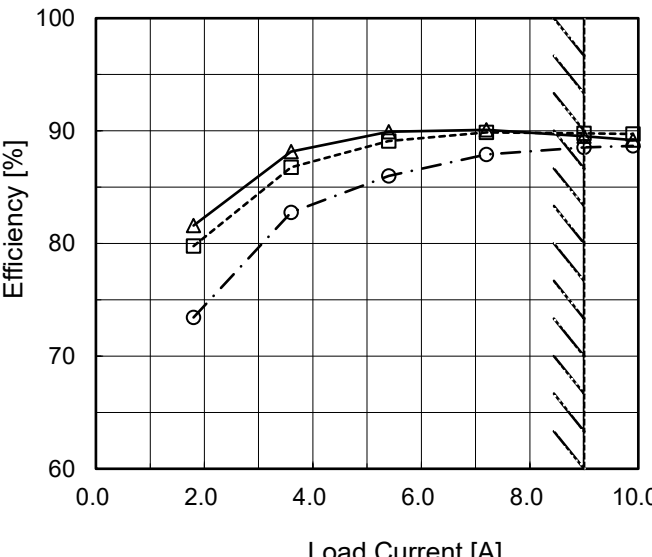
CONTENTS

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)

Model		MUS30483R3	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
Object		_____																																																						
1.Graph			2.Values																																																					
—△— Input Volt. 36V ---□--- Input Volt. 48V -·-○-·- Input Volt. 76V Input Current [A] Load Current [A] Note: Slanted line shows the range of the rated load current.			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>0.032</td><td>0.030</td><td>0.027</td></tr><tr><td>1.8</td><td>0.205</td><td>0.157</td><td>0.108</td></tr><tr><td>3.6</td><td>0.379</td><td>0.289</td><td>0.191</td></tr><tr><td>5.4</td><td>0.557</td><td>0.422</td><td>0.276</td></tr><tr><td>7.2</td><td>0.742</td><td>0.558</td><td>0.360</td></tr><tr><td>9.0</td><td>0.931</td><td>0.698</td><td>0.446</td></tr><tr><td>9.9</td><td>1.032</td><td>0.768</td><td>0.490</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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	0.032	0.030	0.027	1.8	0.205	0.157	0.108	3.6	0.379	0.289	0.191	5.4	0.557	0.422	0.276	7.2	0.742	0.558	0.360	9.0	0.931	0.698	0.446	9.9	1.032	0.768	0.490	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model		MUS30483R3	Temperature 25°C																																																				
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Note: Slanted line shows the range of the rated load current.																																																							

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Model	MUS30483R3																																		
Item	Line Regulation	Temperature	25°C																																
Object	+3.3V9A	Testing Circuitry	Figure A																																
1.Graph Load 50% Load 100% Output Voltage [V] Input Voltage [V] Note: Slanted line shows the range of the rated input voltage.		2.Values <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>30</td><td>3.336</td><td>3.338</td></tr><tr><td>36</td><td>3.338</td><td>3.338</td></tr><tr><td>40</td><td>3.338</td><td>3.338</td></tr><tr><td>48</td><td>3.338</td><td>3.338</td></tr><tr><td>54</td><td>3.338</td><td>3.339</td></tr><tr><td>60</td><td>3.339</td><td>3.339</td></tr><tr><td>70</td><td>3.339</td><td>3.339</td></tr><tr><td>76</td><td>3.339</td><td>3.339</td></tr><tr><td>80</td><td>3.339</td><td>3.339</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	30	3.336	3.338	36	3.338	3.338	40	3.338	3.338	48	3.338	3.338	54	3.338	3.339	60	3.339	3.339	70	3.339	3.339	76	3.339	3.339	80	3.339	3.339
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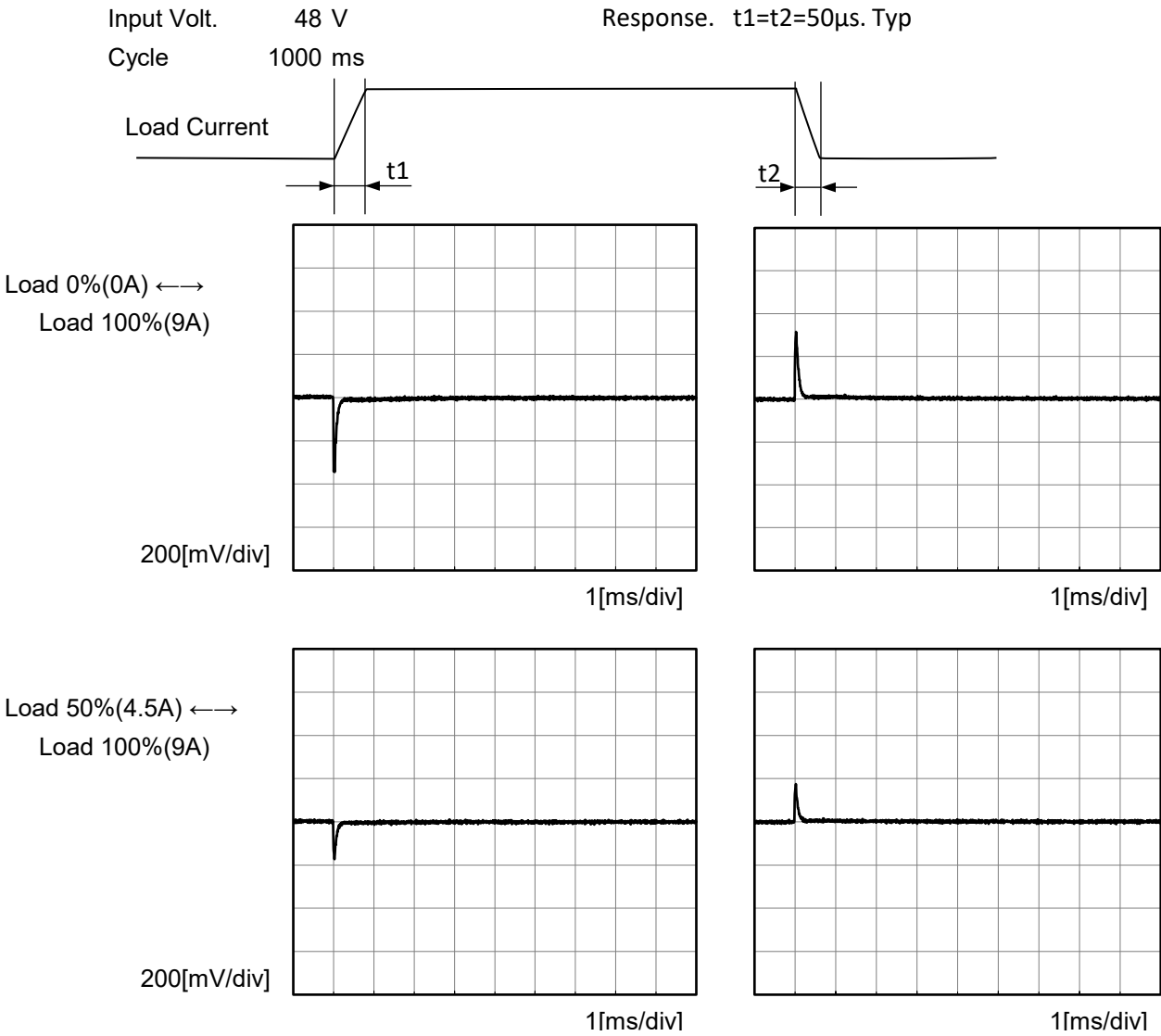
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Item	Ripple-Noise	Temperature	25°C																																																			
		Testing Circuitry	Figure B																																																			
Object	+3.3V9A																																																					
1.Graph																																																						
Input Voltage 48V Load 100% 20[mV/div] 2[μs/div]																																																						



Model		MUS30483R3	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+3.3V9A	

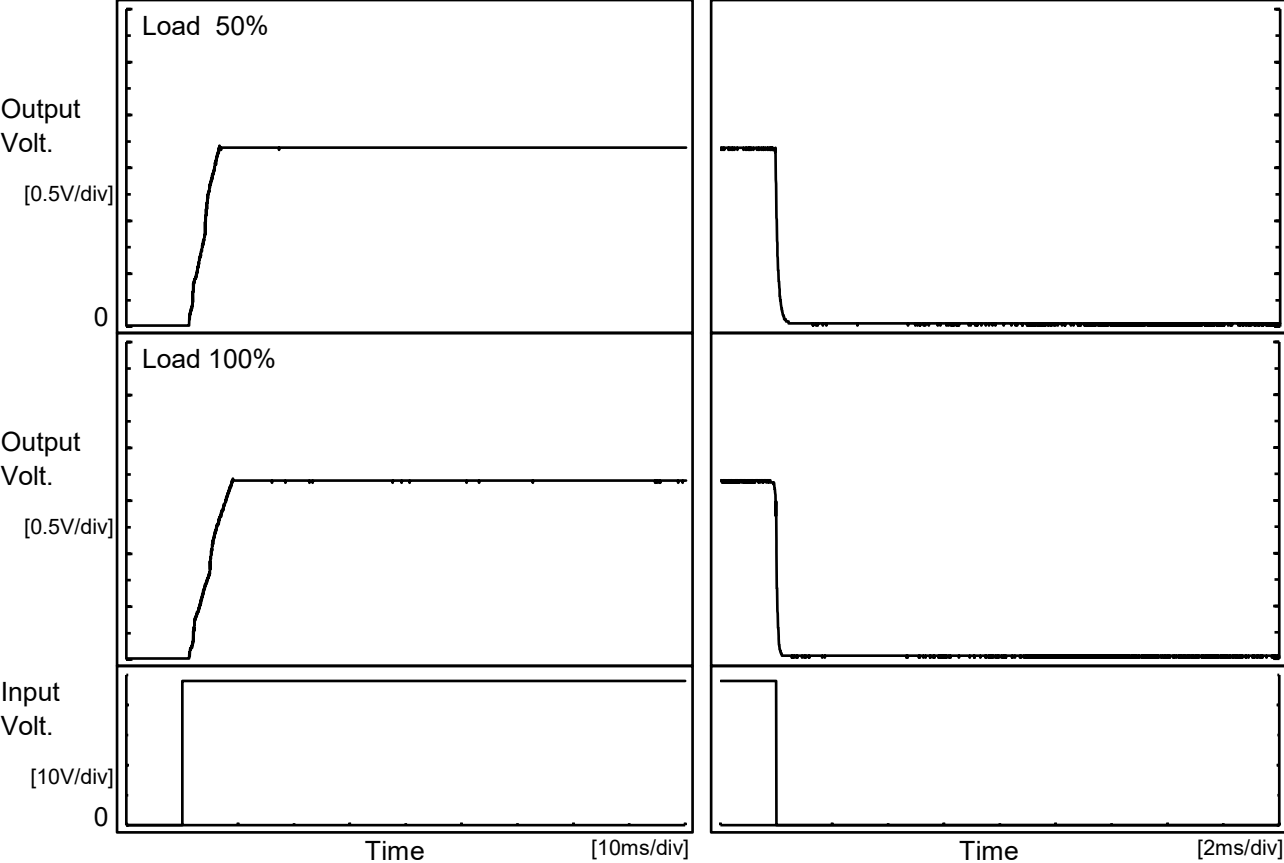




Model		MUS30483R3	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+3.3V9A	

1.Graph

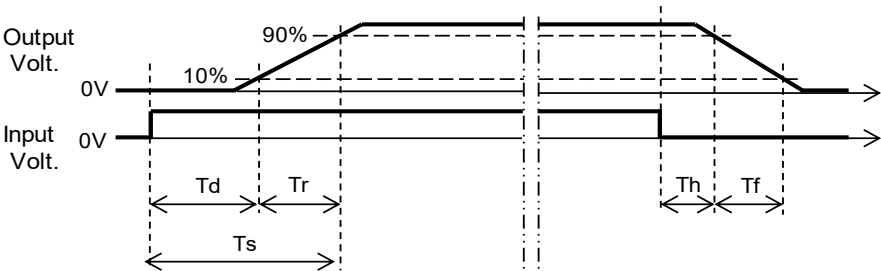
Input Volt. 48 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1.7	4.1	5.8	0.0	0.2
100 %	2.0	5.8	7.8	0.0	0.1



Model		MUS30483R3	Temperature 25°C																																																								
Item		Overcurrent Protection	Testing Circuitry Figure A																																																								
Object		+3.3V9A																																																									
1.Graph		—△ —□ —○ Input Volt. 36V Input Volt. 48V Input Volt. 76V Note: Slanted line shows the range of the rated load current. Overcurrent protection is Hiccup mode.	2.Values																																																								
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Model		MUS30483R3	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+3.3V9A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 36V	Input Volt. 48V	Input Volt. 76V
-40	3.306	3.306	3.307
25	3.338	3.338	3.339
85	3.359	3.360	3.360

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+3.3V9A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	28.1	28.0
25	28.2	28.2
85	28.2	28.3

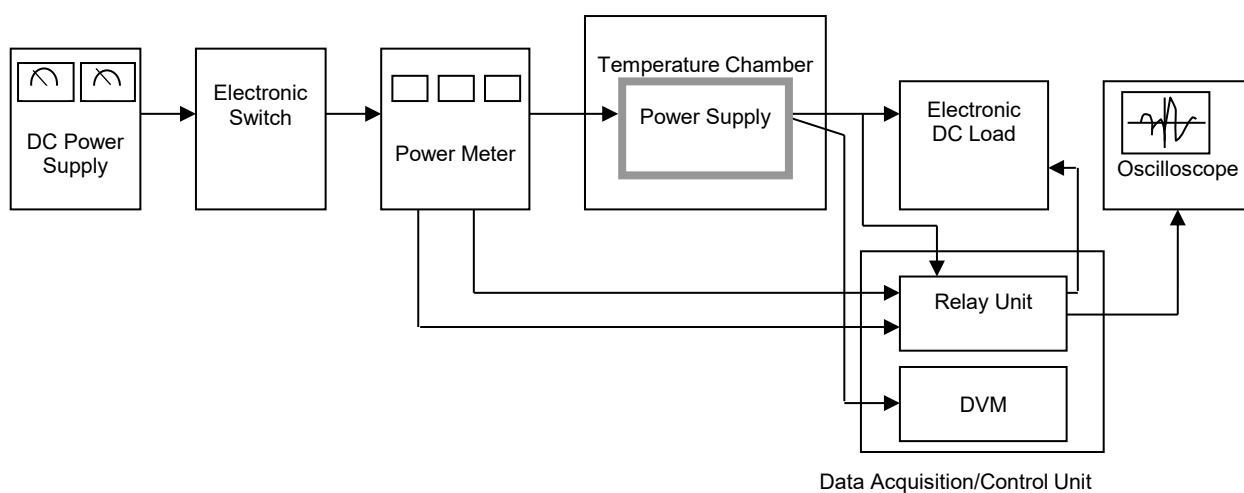


Figure A

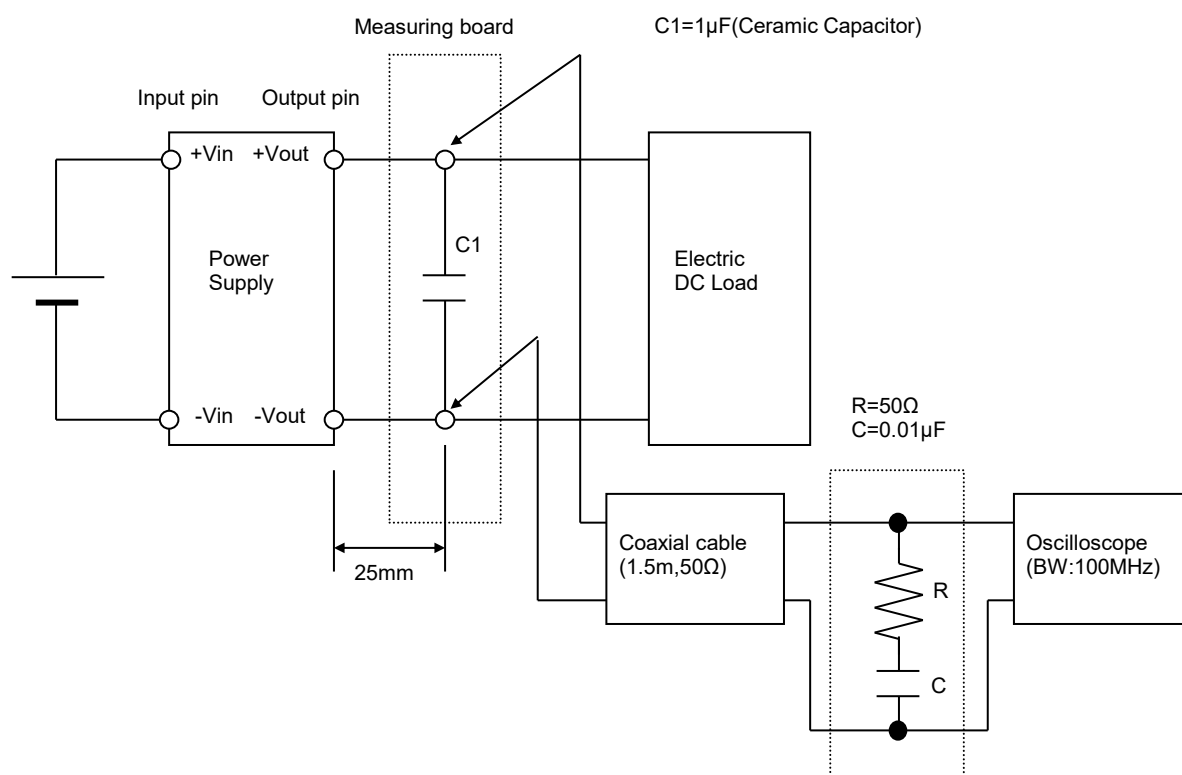


Figure B