



TEST DATA OF MUS15243R3

Regulated DC Power Supply
July 1, 2026

Approved by : Masahiro Shima
Design Manager

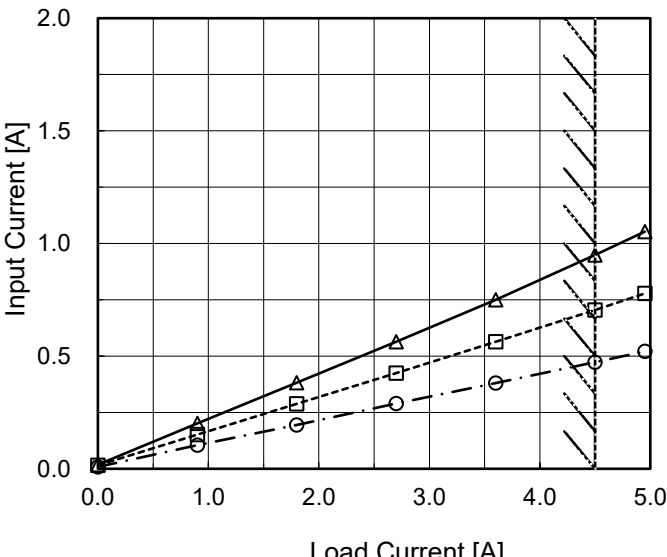
Prepared by : Kosei Oba
Design Engineer

COSEL CO.,LTD.

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Model		MUS15243R3	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>0.00</td><td>0.018</td><td>0.015</td><td>0.008</td></tr><tr><td>0.90</td><td>0.202</td><td>0.152</td><td>0.105</td></tr><tr><td>1.80</td><td>0.382</td><td>0.288</td><td>0.194</td></tr><tr><td>2.70</td><td>0.564</td><td>0.424</td><td>0.289</td></tr><tr><td>3.60</td><td>0.751</td><td>0.564</td><td>0.380</td></tr><tr><td>4.50</td><td>0.950</td><td>0.704</td><td>0.473</td></tr><tr><td>4.95</td><td>1.053</td><td>0.778</td><td>0.521</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]	0.00	0.018	0.015	0.008	0.90	0.202	0.152	0.105	1.80	0.382	0.288	0.194	2.70	0.564	0.424	0.289	3.60	0.751	0.564	0.380	4.50	0.950	0.704	0.473	4.95	1.053	0.778	0.521	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model		MUS15243R3	Temperature 25°C																																																				
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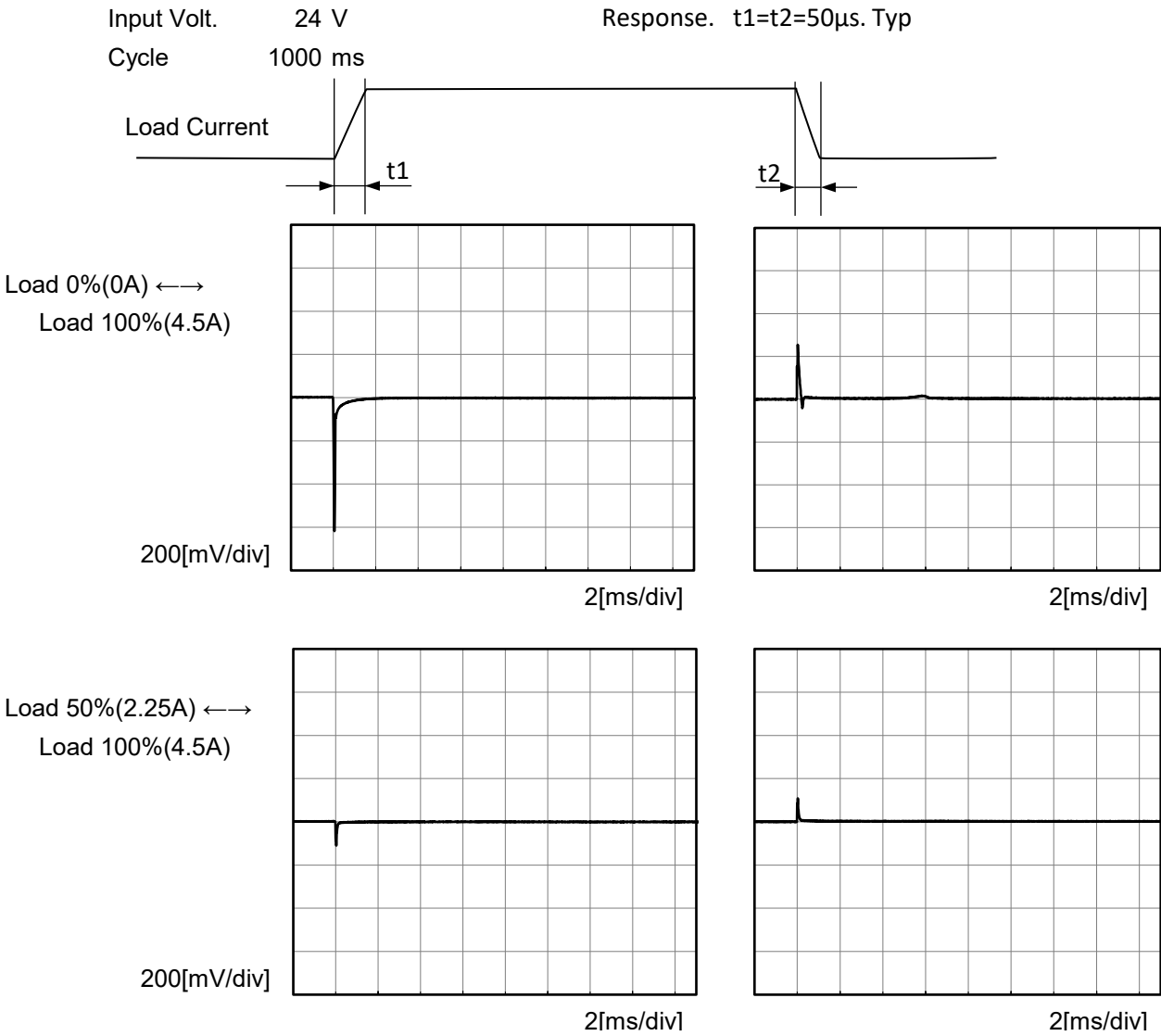
Model		MUS15243R3	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+3.3V4.5A			
1.Graph			2.Values		

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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+3.3V4.5A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
Input Voltage 24V Load 100% 20[mV/div] 2[μs/div]																																																						



Model		MUS15243R3	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+3.3V4.5A	

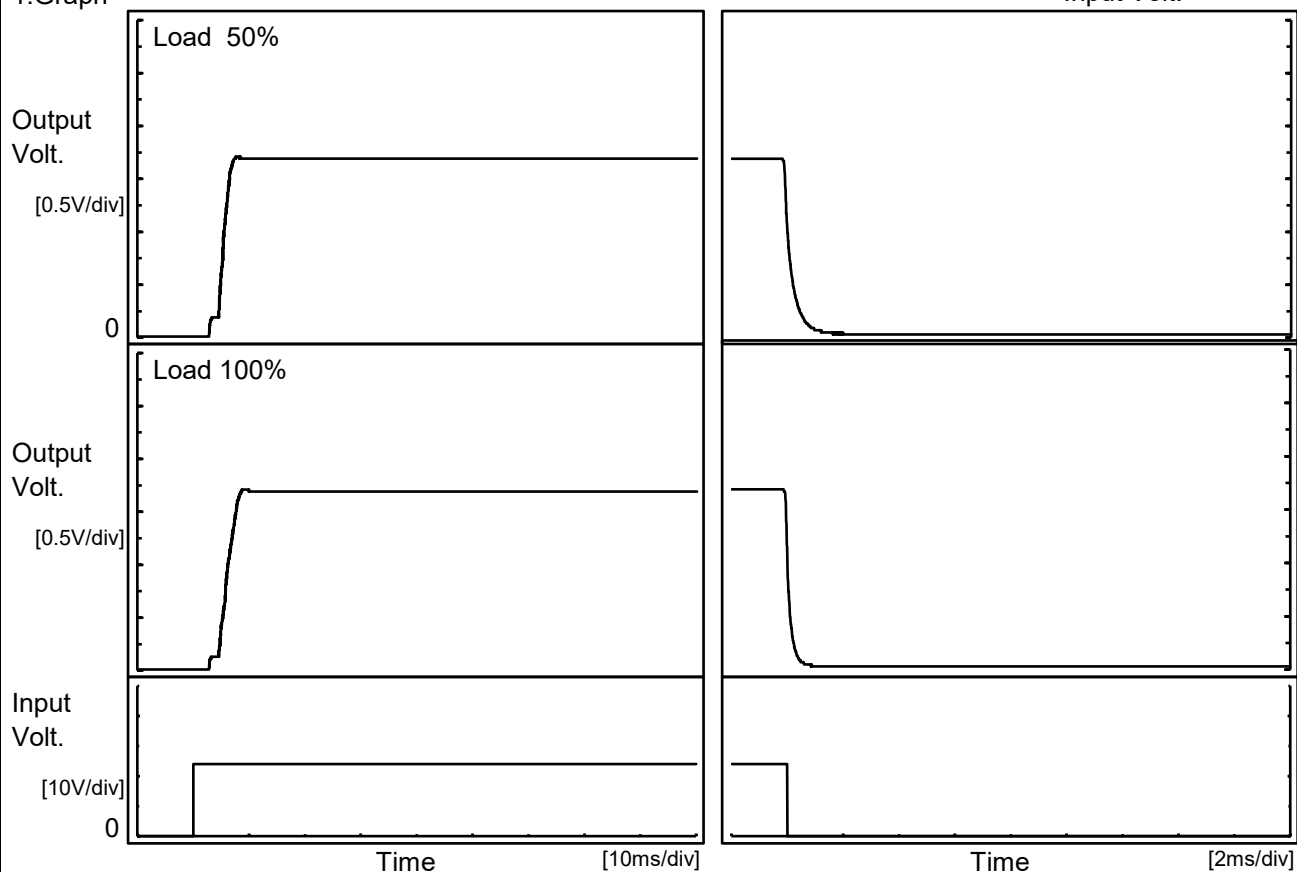


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Model	MUS15243R3	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+3.3V4.5A	

1.Graph

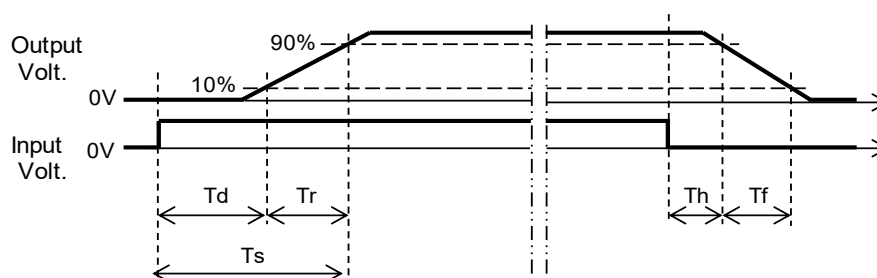
Input Volt. 24 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	3.3	3.2	6.5	0.1	0.7
100 %	4.6	3.1	7.7	0.1	0.3



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Item		Overcurrent Protection	Testing Circuitry		Figure A																																																							
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Model		MUS15243R3	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+3.3V4.5A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	3.324	3.325	3.326
25	3.331	3.332	3.332
85	3.324	3.325	3.325

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+3.3V4.5A	

1.Values

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

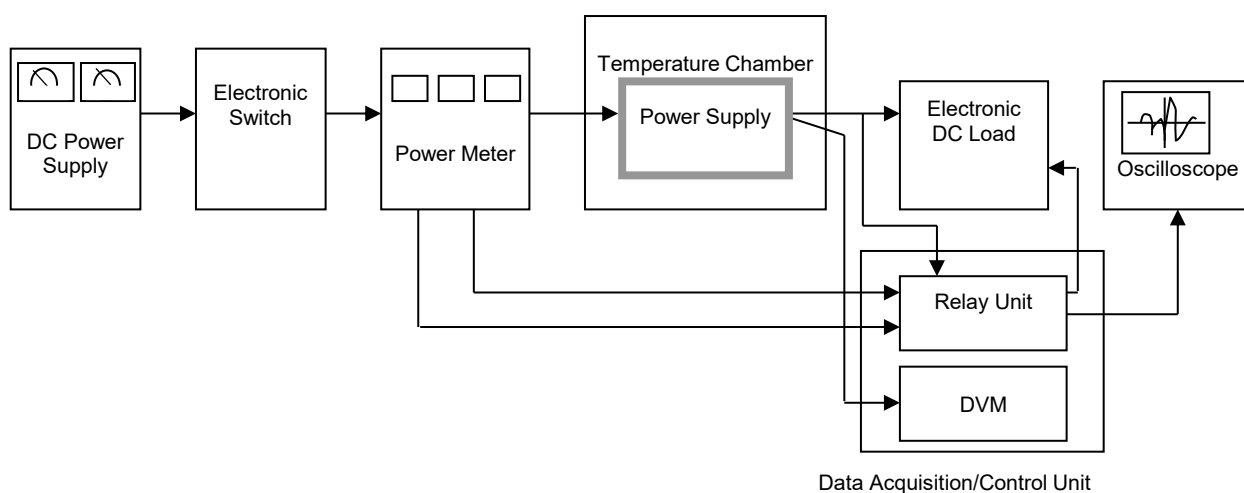


Figure A

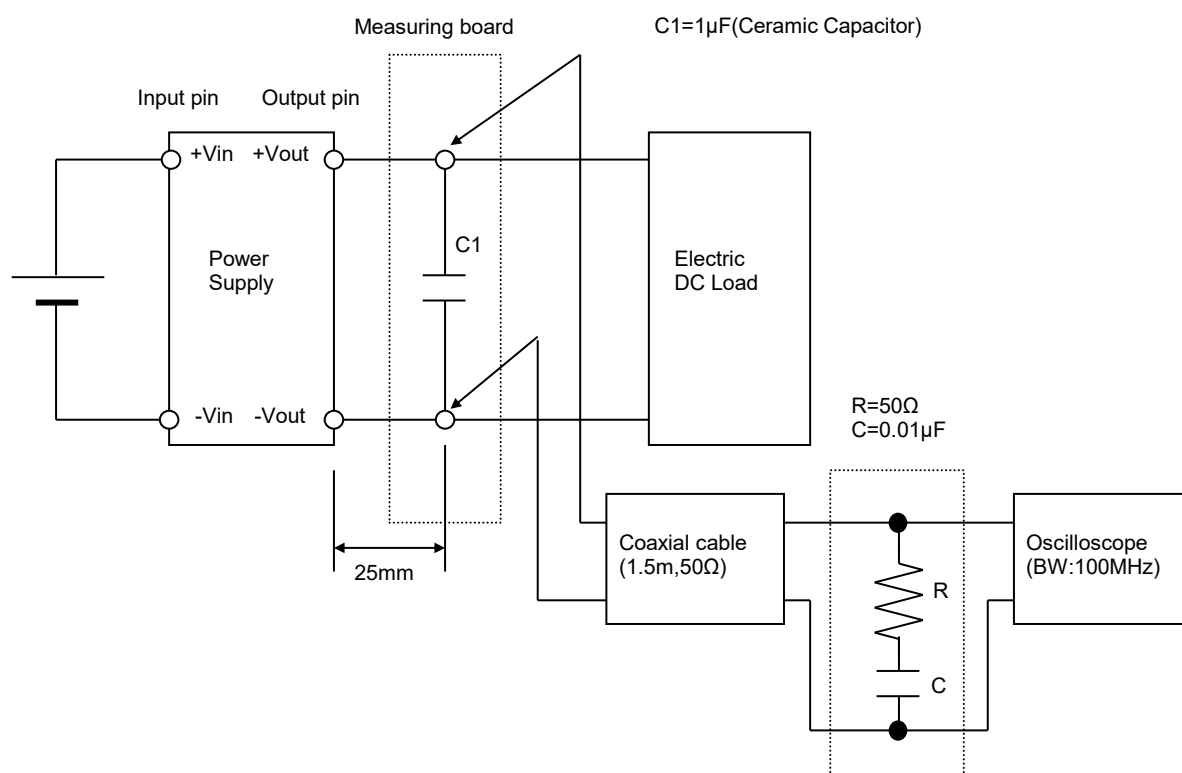


Figure B