

TEST DATA OF MHFS62405

Regulated DC Power Supply
October 27, 2021

Approved by : Kenichi Tsukada
Design Manager

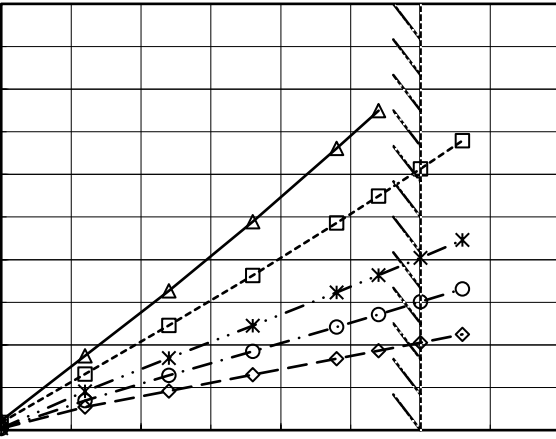
Prepared by : Yoshihiko Saeki
Design Engineer

COSEL CO.,LTD.

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Model		MHFS62405		Temperature 25°C																																																																												
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<div><div><div>Input Current [A]</div><div><div><div>1.0</div><div>0.8</div><div>0.6</div><div>0.4</div><div>0.2</div><div>0.0</div></div><div><div>0.0</div><div>0.4</div><div>0.8</div><div>1.2</div><div>1.6</div></div></div><div></div><div><div>Load Current [A]</div></div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Input Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><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>0.022</td><td>0.018</td><td>0.005</td><td>0.004</td><td>0.004</td></tr><tr><td>0.24</td><td>0.174</td><td>0.131</td><td>0.091</td><td>0.070</td><td>0.054</td></tr><tr><td>0.48</td><td>0.327</td><td>0.246</td><td>0.169</td><td>0.128</td><td>0.091</td></tr><tr><td>0.72</td><td>0.489</td><td>0.363</td><td>0.245</td><td>0.185</td><td>0.130</td></tr><tr><td>0.96</td><td>0.661</td><td>0.486</td><td>0.323</td><td>0.242</td><td>0.167</td></tr><tr><td>1.08</td><td>0.749</td><td>0.549</td><td>0.364</td><td>0.271</td><td>0.186</td></tr><tr><td>1.20</td><td>*1</td><td>0.613</td><td>0.404</td><td>0.301</td><td>0.205</td></tr><tr><td>1.32</td><td>*1</td><td>0.679</td><td>0.446</td><td>0.331</td><td>0.225</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><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]	Input Volt. 24[V]	Input Volt. 36[V]	0.00	0.022	0.018	0.005	0.004	0.004	0.24	0.174	0.131	0.091	0.070	0.054	0.48	0.327	0.246	0.169	0.128	0.091	0.72	0.489	0.363	0.245	0.185	0.130	0.96	0.661	0.486	0.323	0.242	0.167	1.08	0.749	0.549	0.364	0.271	0.186	1.20	*1	0.613	0.404	0.301	0.205	1.32	*1	0.679	0.446	0.331	0.225	--	-	-	-	-	-	--	-	-	-	-	-	--	-	-	-	-	-
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2.Values					

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1.08	5.033	5.033	5.032	5.032	5.031																																																																												
1.20	*1	5.032	5.032	5.031	5.031																																																																												
1.32	*1	5.032	5.031	5.031	5.031																																																																												
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Item		Ripple-Noise	Temperature 25°C																																																																														
Object		+5V1.2A	Testing Circuitry Figure B																																																																														
1.Graph		<div><div>Input Voltage 24V</div><div>Load 100%</div><div><div>10[mV/div]</div><div>1[μs/div]</div></div></div>																																																																															

- 4 -

BC-11825



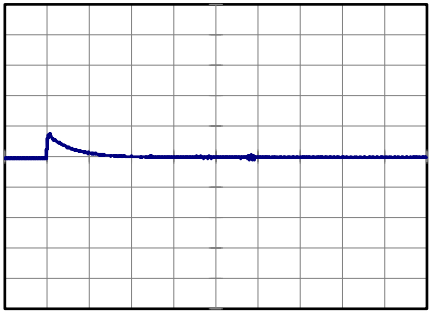
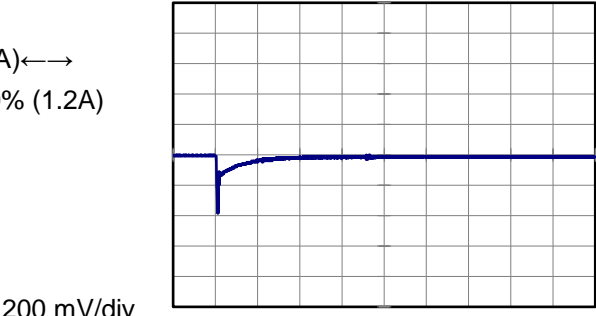
Model	MHFS62405		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+5V1.2A		

Input Volt. 24 V
Cycle 100 ms

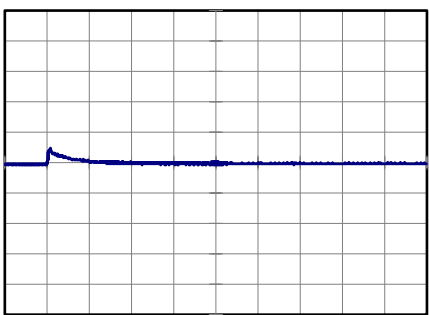
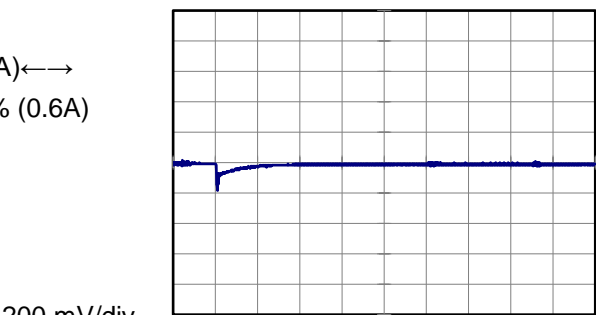
Response. $t_1=t_2=50\mu\text{s}$. Typ



Min.Load (0A) ←→
Load 100% (1.2A)



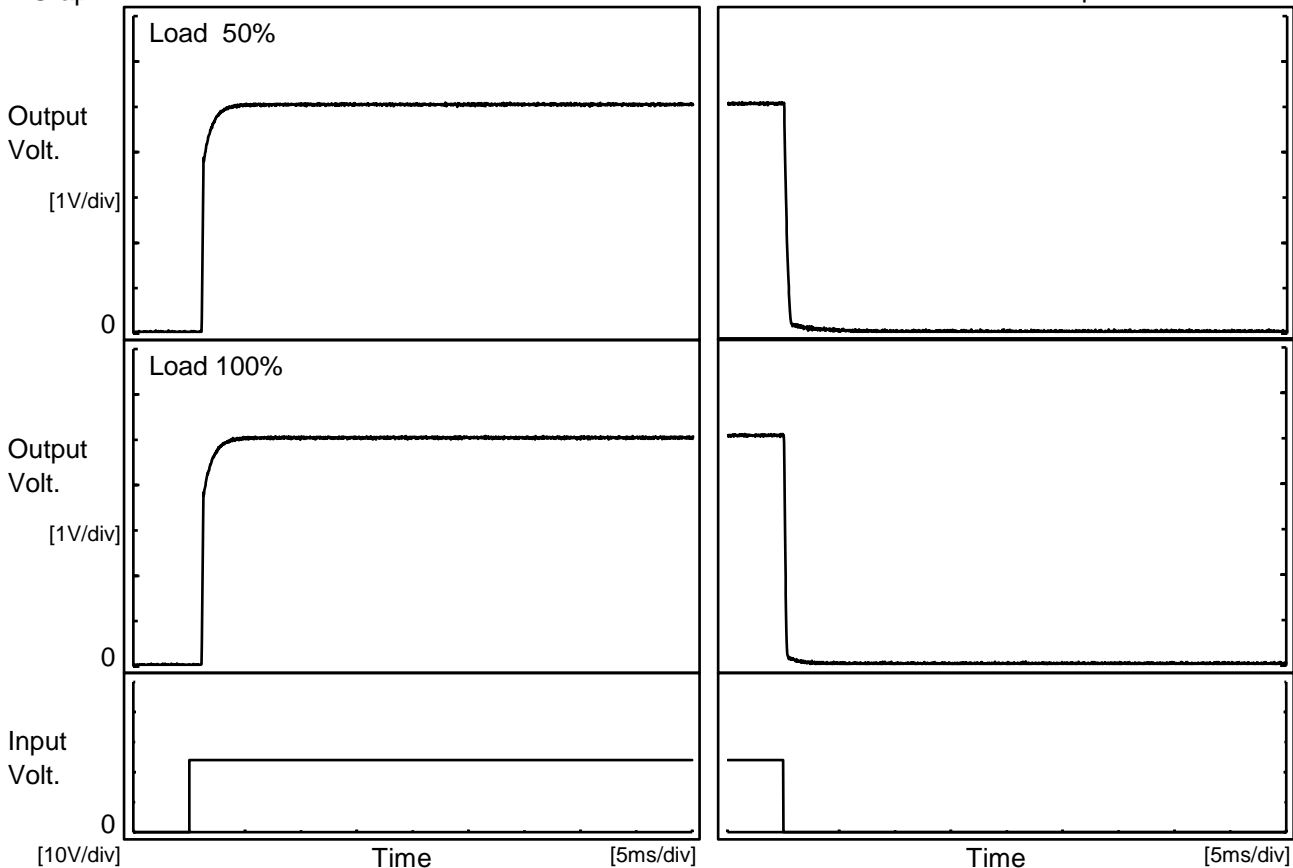
Min.Load (0A) ←→
Load 50% (0.6A)





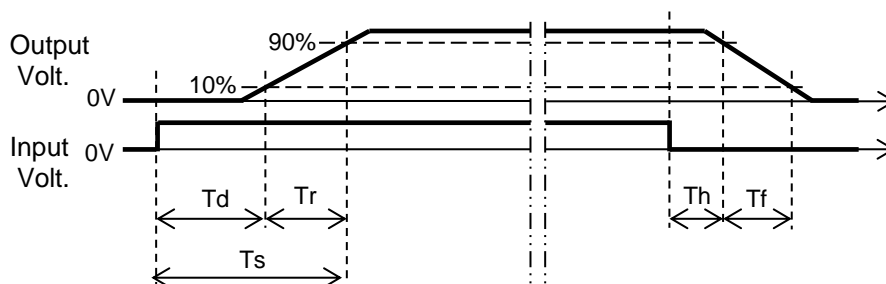
Model	MHFS62405	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V1.2A		

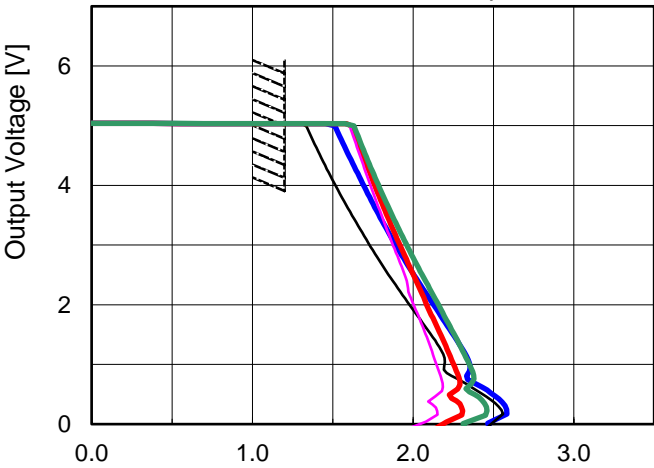
1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.2	0.8	2.0	0.1	0.5
100 %		1.2	0.9	2.1	0.1	0.2



Model		MHFS62405		Temperature 25°C																																																																																				
Item		Overcurrent Protection		Testing Circuitry Figure A																																																																																				
Object		+5V1.2A																																																																																						
1.Graph		<div><div><div></div>Input Volt. 9V</div><div><div></div>Input Volt. 12V</div><div><div></div>Input Volt. 18V</div><div><div></div>Input Volt. 24V</div><div><div></div>Input Volt. 36V</div></div> 																																																																																						
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		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="5">Load Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>4.75</td><td>1.378</td><td>1.553</td><td>1.666</td><td>1.655</td><td>1.636</td></tr><tr><td>4.50</td><td>1.419</td><td>1.593</td><td>1.700</td><td>1.687</td><td>1.666</td></tr><tr><td>4.00</td><td>1.508</td><td>1.687</td><td>1.783</td><td>1.754</td><td>1.728</td></tr><tr><td>3.50</td><td>1.608</td><td>1.785</td><td>1.861</td><td>1.834</td><td>1.801</td></tr><tr><td>3.00</td><td>1.723</td><td>1.892</td><td>1.956</td><td>1.909</td><td>1.868</td></tr><tr><td>2.50</td><td>1.846</td><td>1.994</td><td>2.057</td><td>1.998</td><td>1.945</td></tr><tr><td>2.00</td><td>1.965</td><td>2.118</td><td>2.150</td><td>2.083</td><td>1.997</td></tr><tr><td>1.50</td><td>2.107</td><td>2.242</td><td>2.252</td><td>2.164</td><td>2.077</td></tr><tr><td>1.00</td><td>2.198</td><td>2.352</td><td>2.341</td><td>2.249</td><td>2.140</td></tr><tr><td>0.50</td><td>2.428</td><td>2.484</td><td>2.351</td><td>2.278</td><td>2.180</td></tr><tr><td>0.00</td><td>2.468</td><td>2.474</td><td>2.322</td><td>2.147</td><td>1.982</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]					Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	4.75	1.378	1.553	1.666	1.655	1.636	4.50	1.419	1.593	1.700	1.687	1.666	4.00	1.508	1.687	1.783	1.754	1.728	3.50	1.608	1.785	1.861	1.834	1.801	3.00	1.723	1.892	1.956	1.909	1.868	2.50	1.846	1.994	2.057	1.998	1.945	2.00	1.965	2.118	2.150	2.083	1.997	1.50	2.107	2.242	2.252	2.164	2.077	1.00	2.198	2.352	2.341	2.249	2.140	0.50	2.428	2.484	2.351	2.278	2.180	0.00	2.468	2.474	2.322	2.147	1.982	--	-	-	-	-	-		
Output Voltage [V]	Load Current [A]																																																																																							
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		Testing Circuitry Figure A
Model	MHFS62405	
Item	Ambient Temperature Drift	
Object	+5V1.2A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]				
	Input Volt. 9V*1	Input Volt. 12V	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	5.015	5.015	5.015	5.016	5.016
25	5.029	5.028	5.029	5.029	5.029
50	5.035	5.034	5.035	5.035	5.035

*1 Load 80%

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+5V1.2A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 80%
-40	7.3	7.3
25	7.2	7.1
50	7.1	7.1

Model		MHFS62405		Temperature 25°C																																																																														
Item		Switching frequency (by Load Current)		Testing Circuitry Figure A																																																																														
Object		+5V1.2A																																																																																
1.Graph		<div><div>—△—</div>Input Volt. 9V</div> <div><div>---□---</div>Input Volt. 12V</div> <div><div>-·-·*-·-</div>Input Volt. 18V</div> <div><div>-·-·○-·-</div>Input Volt. 24V</div> <div><div>---◇---</div>Input Volt. 36V</div>																																																																																
<div>Switching Frequency [kHz]</div> <div><div>Load Current [A]</div></div>		2.Values																																																																																
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Load Current [A]	Switching Frequency [kHz]																																																																																	
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When load current is low, MH operates intermittently, so switching frequency would not become constant.																																																																																		

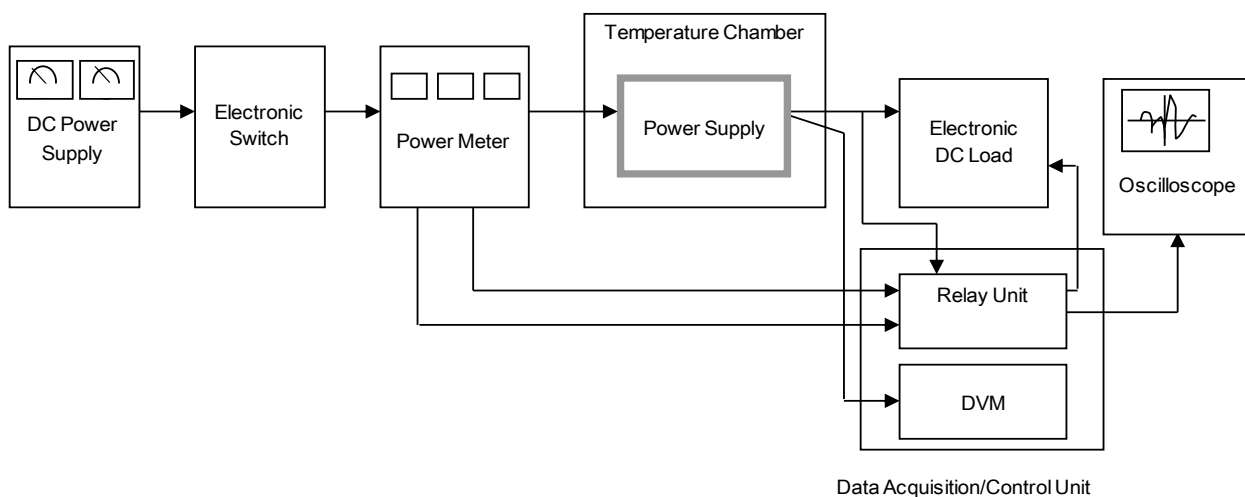


Figure A

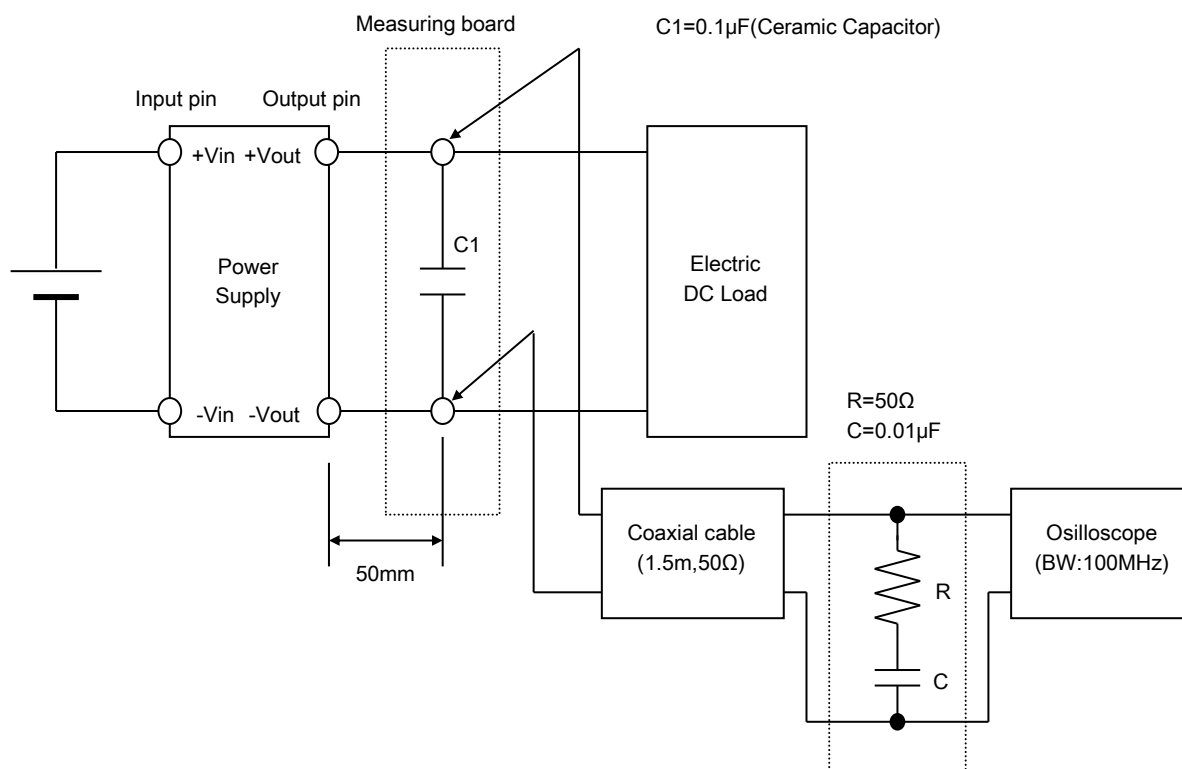


Figure B