



TEST DATA OF MHFS34815

Regulated DC Power Supply
June 2, 2020

Approved by : Kenichi Tsukada
Kenichi Tsukada Design Manager

Prepared by : Yoshihiko Saeki
Yoshihiko Saeki 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.Switching frequency (by Load Current)	9
12.Figure of Testing Circuitry	10

(Final Page 10)

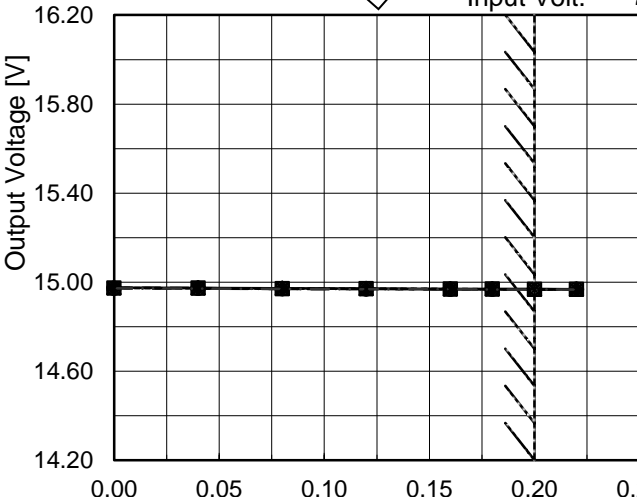
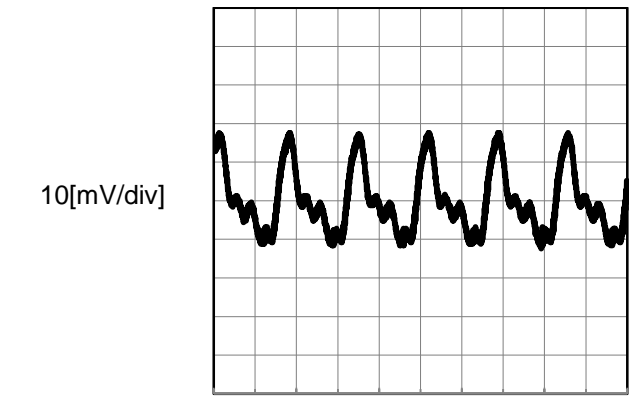
COSEL

Model		MHFS34815		Temperature 25°C																																																																														
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																																														
Object																																																																																		
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>-·-*·-·-</div><div>Input Volt.</div><div>36V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>48V</div></div><div><div>--◇--</div><div>Input Volt.</div><div>76V</div></div></div> <div><p>Note: Slanted line shows the range of the rated load current.</p></div>		2.Values																																																																														
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Input Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.00</td><td>0.011</td><td>0.010</td><td>0.008</td><td>0.007</td><td>0.003</td></tr><tr><td>0.04</td><td>0.047</td><td>0.036</td><td>0.025</td><td>0.020</td><td>0.014</td></tr><tr><td>0.08</td><td>0.084</td><td>0.064</td><td>0.044</td><td>0.034</td><td>0.023</td></tr><tr><td>0.12</td><td>0.122</td><td>0.091</td><td>0.062</td><td>0.048</td><td>0.032</td></tr><tr><td>0.16</td><td>0.159</td><td>0.120</td><td>0.080</td><td>0.061</td><td>0.041</td></tr><tr><td>0.18</td><td>0.178</td><td>0.134</td><td>0.090</td><td>0.068</td><td>0.045</td></tr><tr><td>0.20</td><td>0.198</td><td>0.148</td><td>0.099</td><td>0.075</td><td>0.049</td></tr><tr><td>0.22</td><td>0.218</td><td>0.162</td><td>0.109</td><td>0.082</td><td>0.054</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. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.011	0.010	0.008	0.007	0.003	0.04	0.047	0.036	0.025	0.020	0.014	0.08	0.084	0.064	0.044	0.034	0.023	0.12	0.122	0.091	0.062	0.048	0.032	0.16	0.159	0.120	0.080	0.061	0.041	0.18	0.178	0.134	0.090	0.068	0.045	0.20	0.198	0.148	0.099	0.075	0.049	0.22	0.218	0.162	0.109	0.082	0.054	--	-	-	-	-	-	--	-	-	-	-	-	--	-	-	-	-	-		
Load Current [A]	Input Current [A]																																																																																	
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																																													
0.00	0.011	0.010	0.008	0.007	0.003																																																																													
0.04	0.047	0.036	0.025	0.020	0.014																																																																													
0.08	0.084	0.064	0.044	0.034	0.023																																																																													
0.12	0.122	0.091	0.062	0.048	0.032																																																																													
0.16	0.159	0.120	0.080	0.061	0.041																																																																													
0.18	0.178	0.134	0.090	0.068	0.045																																																																													
0.20	0.198	0.148	0.099	0.075	0.049																																																																													
0.22	0.218	0.162	0.109	0.082	0.054																																																																													
--	-	-	-	-	-																																																																													
--	-	-	-	-	-																																																																													
--	-	-	-	-	-																																																																													

Model		MHFS34815		Temperature 25°C																																																																														
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																																														
Object																																																																																		
1.Graph		<div><div><div>—△—</div>Input Volt. 18V</div><div><div>---□---</div>Input Volt. 24V</div><div><div>-·-*·-</div>Input Volt. 36V</div><div><div>-·-○-</div>Input Volt. 48V</div><div><div>---◇---</div>Input Volt. 76V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																																														
				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Efficiency [%]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.04</td><td>71.3</td><td>69.8</td><td>66.8</td><td>64.0</td><td>57.1</td></tr><tr><td>0.08</td><td>79.4</td><td>78.3</td><td>75.8</td><td>73.9</td><td>68.2</td></tr><tr><td>0.12</td><td>82.3</td><td>82.3</td><td>80.8</td><td>79.1</td><td>74.1</td></tr><tr><td>0.16</td><td>83.2</td><td>83.2</td><td>82.9</td><td>82.0</td><td>77.7</td></tr><tr><td>0.18</td><td>83.7</td><td>83.8</td><td>83.2</td><td>82.6</td><td>79.0</td></tr><tr><td>0.20</td><td>83.8</td><td>84.2</td><td>83.7</td><td>82.8</td><td>79.9</td></tr><tr><td>0.22</td><td>83.9</td><td>84.6</td><td>84.3</td><td>83.3</td><td>80.7</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]	Efficiency [%]					Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	-	-	-	-	-	0.04	71.3	69.8	66.8	64.0	57.1	0.08	79.4	78.3	75.8	73.9	68.2	0.12	82.3	82.3	80.8	79.1	74.1	0.16	83.2	83.2	82.9	82.0	77.7	0.18	83.7	83.8	83.2	82.6	79.0	0.20	83.8	84.2	83.7	82.8	79.9	0.22	83.9	84.6	84.3	83.3	80.7	--	-	-	-	-	-	--	-	-	-	-	-	--	-	-	-	-	-
Load Current [A]	Efficiency [%]																																																																																	
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																																													
0.00	-	-	-	-	-																																																																													
0.04	71.3	69.8	66.8	64.0	57.1																																																																													
0.08	79.4	78.3	75.8	73.9	68.2																																																																													
0.12	82.3	82.3	80.8	79.1	74.1																																																																													
0.16	83.2	83.2	82.9	82.0	77.7																																																																													
0.18	83.7	83.8	83.2	82.6	79.0																																																																													
0.20	83.8	84.2	83.7	82.8	79.9																																																																													
0.22	83.9	84.6	84.3	83.3	80.7																																																																													
--	-	-	-	-	-																																																																													
--	-	-	-	-	-																																																																													
--	-	-	-	-	-																																																																													



<div>LOREL</div>			
Model	MHFS34815		
Item	Line Regulation	Temperature	25°C
Object	+15V0.2A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div></div> <div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div></div>			

Model	MHFS34815	Temperature 25°C																																																																																	
Item	Load Regulation	Testing Circuitry Figure A																																																																																	
Object	+15V0.2A																																																																																		
1.Graph		2.Values																																																																																	
<div><div><div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>-·-·*·-·-</div><div>Input Volt.</div><div>36V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>48V</div></div><div><div>---◇---</div><div>Input Volt.</div><div>76V</div></div></div><div></div><div>Note: Slanted line shows the range of the rated load current.</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Output Voltage [V]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.00</td><td>14.975</td><td>14.974</td><td>14.972</td><td>14.972</td><td>14.975</td></tr><tr><td>0.04</td><td>14.974</td><td>14.973</td><td>14.972</td><td>14.971</td><td>14.974</td></tr><tr><td>0.08</td><td>14.973</td><td>14.971</td><td>14.970</td><td>14.970</td><td>14.970</td></tr><tr><td>0.12</td><td>14.972</td><td>14.970</td><td>14.969</td><td>14.969</td><td>14.969</td></tr><tr><td>0.16</td><td>14.970</td><td>14.969</td><td>14.968</td><td>14.968</td><td>14.968</td></tr><tr><td>0.18</td><td>14.970</td><td>14.968</td><td>14.967</td><td>14.968</td><td>14.969</td></tr><tr><td>0.20</td><td>14.969</td><td>14.968</td><td>14.967</td><td>14.967</td><td>14.968</td></tr><tr><td>0.22</td><td>14.968</td><td>14.967</td><td>14.967</td><td>14.967</td><td>14.968</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]	Output Voltage [V]					Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	14.975	14.974	14.972	14.972	14.975	0.04	14.974	14.973	14.972	14.971	14.974	0.08	14.973	14.971	14.970	14.970	14.970	0.12	14.972	14.970	14.969	14.969	14.969	0.16	14.970	14.969	14.968	14.968	14.968	0.18	14.970	14.968	14.967	14.968	14.969	0.20	14.969	14.968	14.967	14.967	14.968	0.22	14.968	14.967	14.967	14.967	14.968	--	-	-	-	-	-	--	-	-	-	-	-	--	-	-	-	-	-
Load Current [A]	Output Voltage [V]																																																																																		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																																														
0.00	14.975	14.974	14.972	14.972	14.975																																																																														
0.04	14.974	14.973	14.972	14.971	14.974																																																																														
0.08	14.973	14.971	14.970	14.970	14.970																																																																														
0.12	14.972	14.970	14.969	14.969	14.969																																																																														
0.16	14.970	14.969	14.968	14.968	14.968																																																																														
0.18	14.970	14.968	14.967	14.968	14.969																																																																														
0.20	14.969	14.968	14.967	14.967	14.968																																																																														
0.22	14.968	14.967	14.967	14.967	14.968																																																																														
--	-	-	-	-	-																																																																														
--	-	-	-	-	-																																																																														
--	-	-	-	-	-																																																																														
Item	Ripple-Noise	Temperature 25°C																																																																																	
Object	+15V0.2A	Testing Circuitry Figure B																																																																																	
1.Graph																																																																																			
<div><div>Input Voltage 48V</div><div>Load 100%</div><div></div><div>10[mV/div]</div><div>1[μs/div]</div></div>																																																																																			

- 4 -

BC-11621

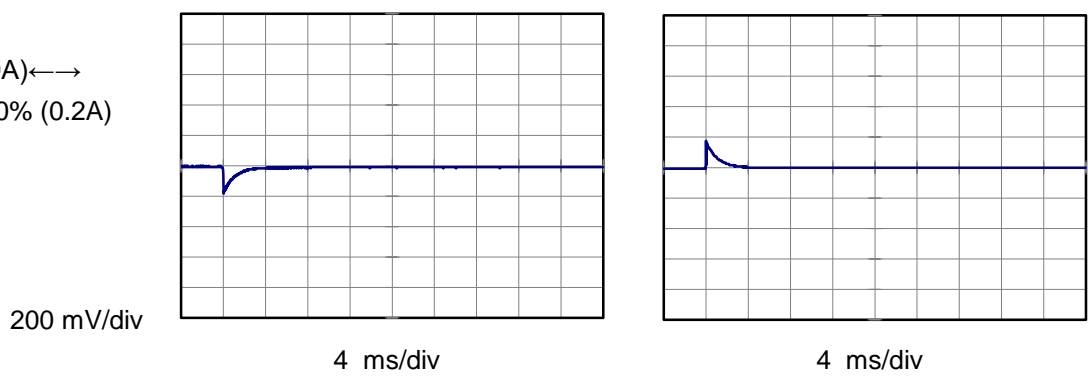


Model	MHFS34815		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+15V0.2A		

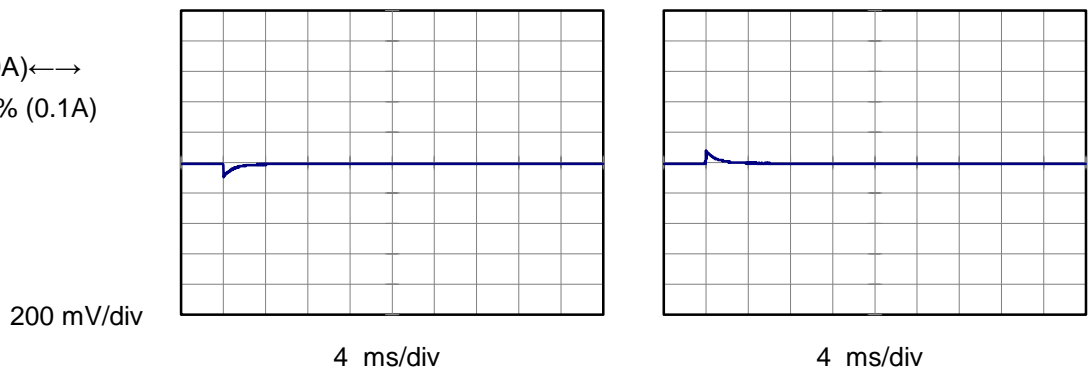
Input Volt. 48 V
Cycle 100 ms



Min.Load (0A) ←→
Load 100% (0.2A)



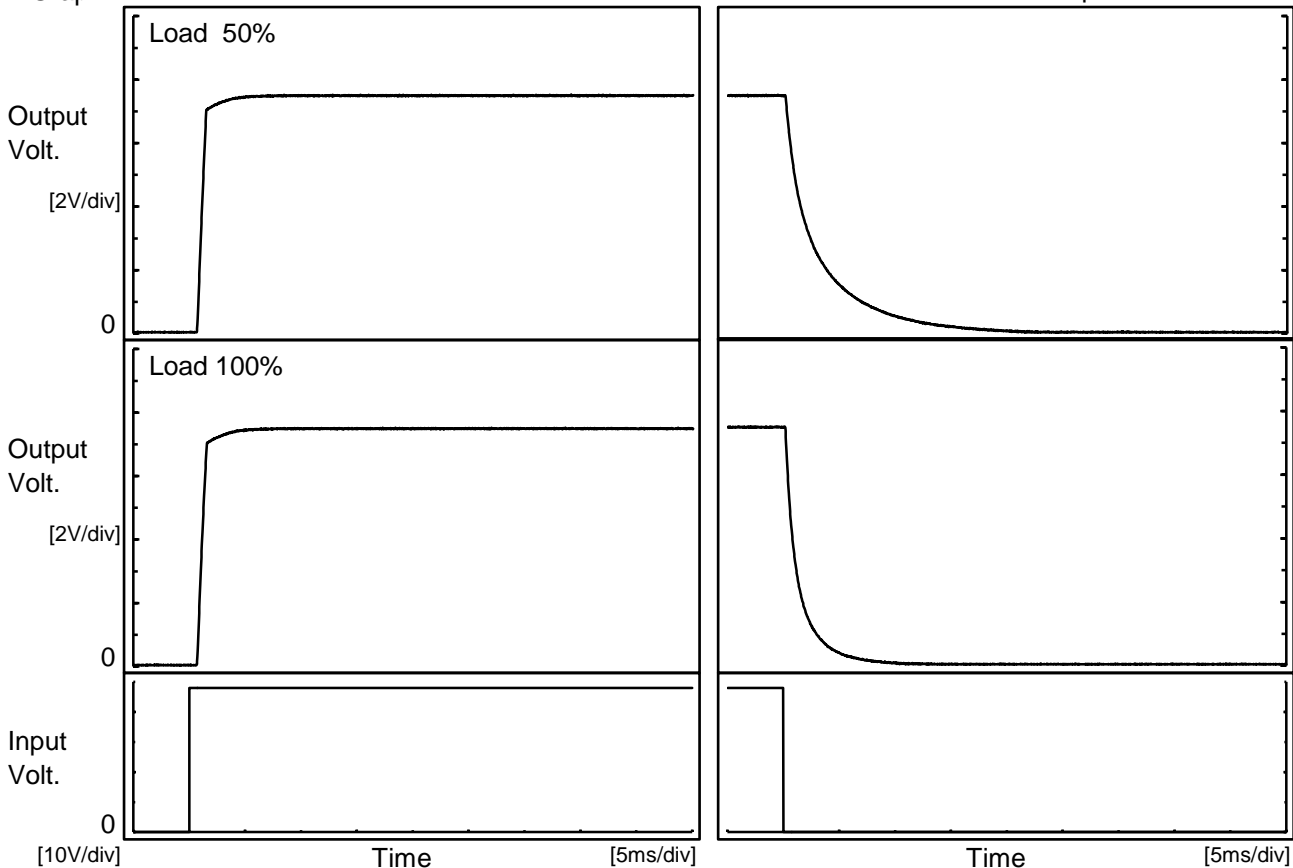
Min.Load (0A) ←→
Load 50% (0.1A)





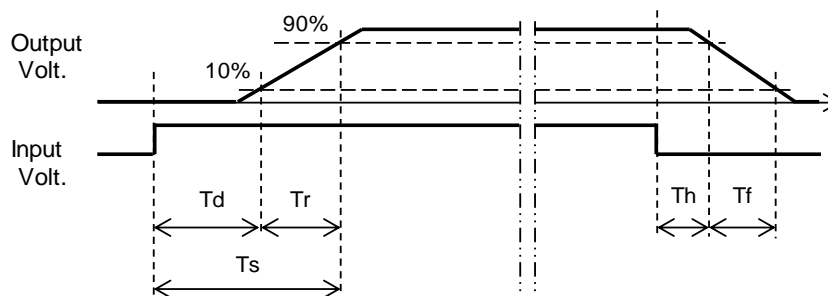
Model	MHFS34815	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.2A		

1.Graph

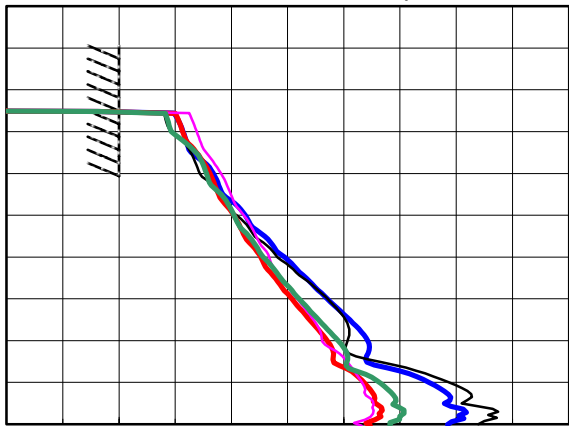


2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.8	0.7	1.5	0.4	7.8
100 %	0.8	0.8	1.6	0.3	3.2





Model		MHFS34815	Temperature25°C Testing CircuitryFigure A																																																																																				
Item		Overcurrent Protection																																																																																					
Object		+15V0.2A																																																																																					
1.Graph		<div><div><div></div>Input Volt.18V</div><div><div></div>Input Volt.24V</div><div><div></div>Input Volt.36V</div><div><div></div>Input Volt.48V</div><div><div></div>Input Volt.76V</div></div> <div><div><div>Output Voltage [V]</div><div><div>20</div><div>16</div><div>12</div><div>8</div><div>4</div><div>0</div></div><div><div>0.0</div><div>0.2</div><div>0.4</div><div>0.6</div><div>0.8</div><div>1.0</div></div><div>Load Current [A]</div></div><div></div></div> <div>Note: Slanted line shows the range of the rated load current.</div>	2.Values																																																																																				
		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="5">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>14.3</td><td>0.286</td><td>0.310</td><td>0.289</td><td>0.309</td><td>0.334</td></tr><tr><td>13.5</td><td>0.313</td><td>0.319</td><td>0.313</td><td>0.319</td><td>0.344</td></tr><tr><td>12.0</td><td>0.342</td><td>0.368</td><td>0.354</td><td>0.359</td><td>0.381</td></tr><tr><td>10.5</td><td>0.390</td><td>0.406</td><td>0.394</td><td>0.388</td><td>0.406</td></tr><tr><td>9.0</td><td>0.438</td><td>0.453</td><td>0.427</td><td>0.422</td><td>0.442</td></tr><tr><td>7.5</td><td>0.504</td><td>0.511</td><td>0.472</td><td>0.461</td><td>0.473</td></tr><tr><td>6.0</td><td>0.566</td><td>0.566</td><td>0.516</td><td>0.505</td><td>0.514</td></tr><tr><td>4.5</td><td>0.610</td><td>0.627</td><td>0.571</td><td>0.554</td><td>0.557</td></tr><tr><td>3.0</td><td>0.642</td><td>0.639</td><td>0.607</td><td>0.581</td><td>0.603</td></tr><tr><td>1.5</td><td>0.820</td><td>0.779</td><td>0.684</td><td>0.651</td><td>0.637</td></tr><tr><td>0.0</td><td>0.839</td><td>0.784</td><td>0.682</td><td>0.647</td><td>0.632</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. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	14.3	0.286	0.310	0.289	0.309	0.334	13.5	0.313	0.319	0.313	0.319	0.344	12.0	0.342	0.368	0.354	0.359	0.381	10.5	0.390	0.406	0.394	0.388	0.406	9.0	0.438	0.453	0.427	0.422	0.442	7.5	0.504	0.511	0.472	0.461	0.473	6.0	0.566	0.566	0.516	0.505	0.514	4.5	0.610	0.627	0.571	0.554	0.557	3.0	0.642	0.639	0.607	0.581	0.603	1.5	0.820	0.779	0.684	0.651	0.637	0.0	0.839	0.784	0.682	0.647	0.632	--	-	-	-	-	-		
Output Voltage [V]	Load Current [A]																																																																																						
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																																																		
14.3	0.286	0.310	0.289	0.309	0.334																																																																																		
13.5	0.313	0.319	0.313	0.319	0.344																																																																																		
12.0	0.342	0.368	0.354	0.359	0.381																																																																																		
10.5	0.390	0.406	0.394	0.388	0.406																																																																																		
9.0	0.438	0.453	0.427	0.422	0.442																																																																																		
7.5	0.504	0.511	0.472	0.461	0.473																																																																																		
6.0	0.566	0.566	0.516	0.505	0.514																																																																																		
4.5	0.610	0.627	0.571	0.554	0.557																																																																																		
3.0	0.642	0.639	0.607	0.581	0.603																																																																																		
1.5	0.820	0.779	0.684	0.651	0.637																																																																																		
0.0	0.839	0.784	0.682	0.647	0.632																																																																																		
--	-	-	-	-	-																																																																																		

COSEL

		Testing Circuitry Figure A
Model	MHFS34815	
Item	Ambient Temperature Drift	
Object	+15V0.2A	

1.Values

Ambient Temperature[°C]	Output Voltage [V]				
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V	Input Volt. 48V	Input Volt. 76V
-40	14.858	14.859	14.860	14.862	14.863
25	14.964	14.965	14.965	14.965	14.967
75	14.990	14.990	14.990	14.991	14.992

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.2A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	14.5	14.6
25	14.3	14.3
75	13.8	13.9

Model

MHFS34815

Item

Switching frequency (by Load Current)

Object

+15V0.2A

1.Graph

—△—

Input Volt.

18V

---□---

Input Volt.

24V

-·-·*·-·-

Input Volt.

36V

-·-○-·-

Input Volt.

48V

---◇---

Input Volt.

76V

Switching Frequency [kHz]

10000

1000

100

0.00

0.05

0.10

0.15

0.20

0.25

Load Current [A]

Note: Slanted line shows the range of the rated load current.

When load current is low, MH operates intermittently, so switching frequency would not become constant.

2.Values

Load Current [A]	Switching Frequency [kHz]				
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	629	720	842	904	920
0.04	548	653	786	854	867
0.08	457	547	678	750	835
0.12	394	494	626	699	781
0.16	348	429	570	648	735
0.18	331	415	536	618	710
0.20	308	398	514	587	684
0.22	292	383	504	573	662
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-

Temperature

25°C

Testing Circuitry

Figure A

BC-11621

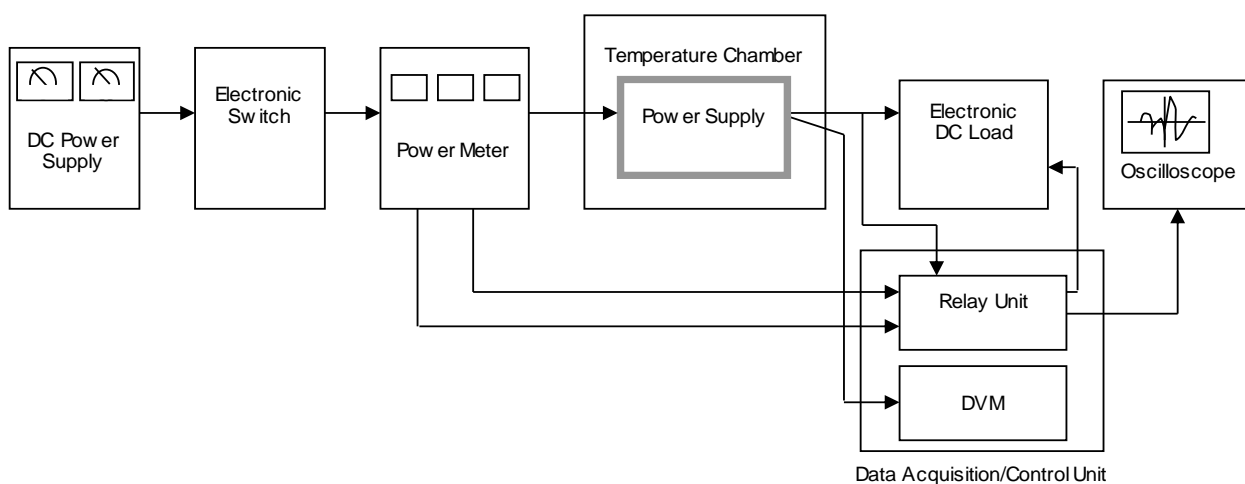


Figure A

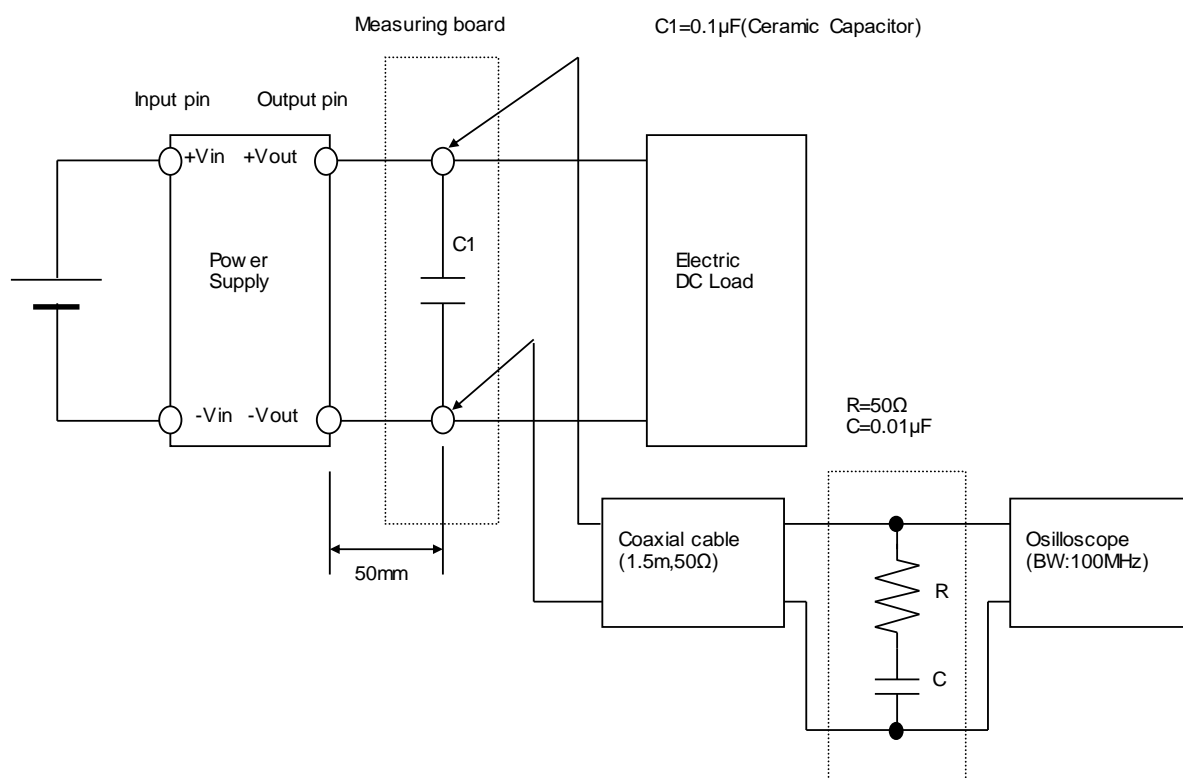


Figure B