



TEST DATA OF MUW60515

Regulated DC Power Supply
May.8. 2025

Approved by : Kenichi Tsukada
Design Manager

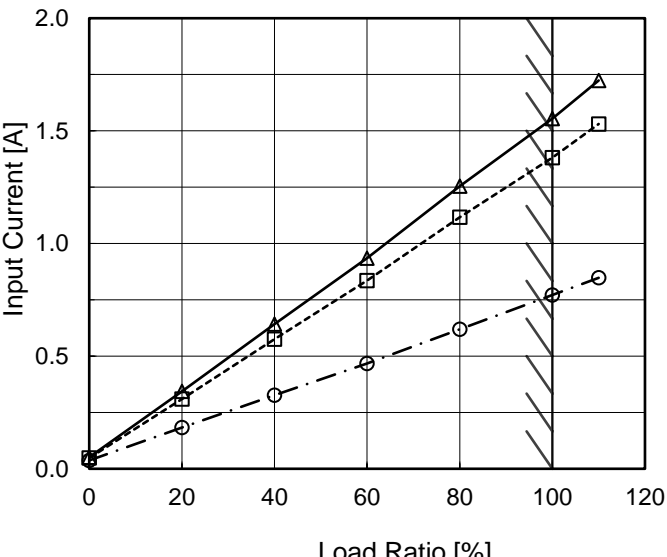
Prepared by : Yoshihiko Saeki
Design Engineer

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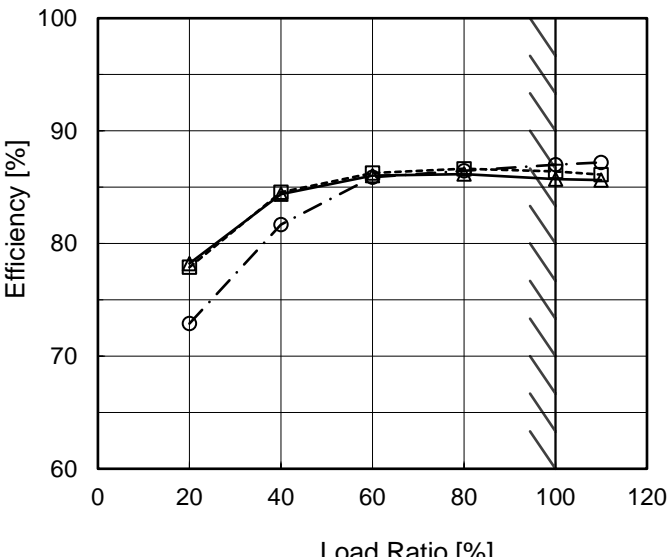
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Model		MUW60515	Temperature		25°C
Item		Input Current (by Load Current)	Testing Circuitry		Figure A
Object					
1.Graph					
		—△—	Input Volt.	4.5V	
		---□---	Input Volt.	5V	
		-·-○-·-	Input Volt.	9V	
					
2.Values					
Load Ratio [%]		Input Current [A]			
		Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	
0		0.051	0.048	0.037	
20		0.344	0.310	0.182	
40		0.643	0.576	0.326	
60		0.935	0.835	0.467	
80		1.255	1.117	0.619	
100		1.555	1.381	0.771	
110		1.724	1.531	0.848	
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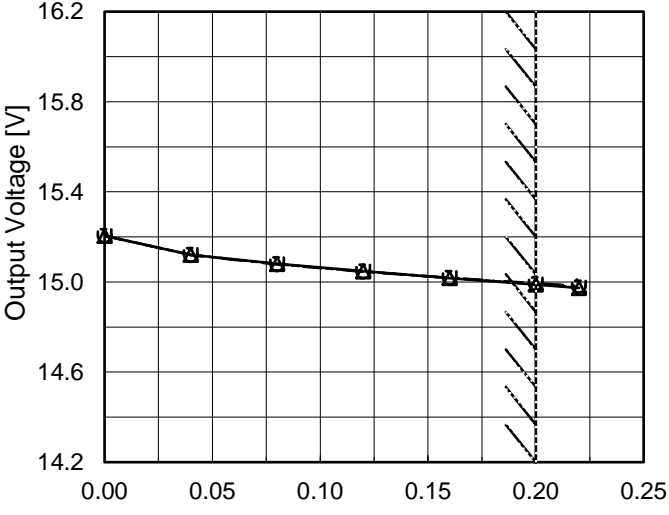
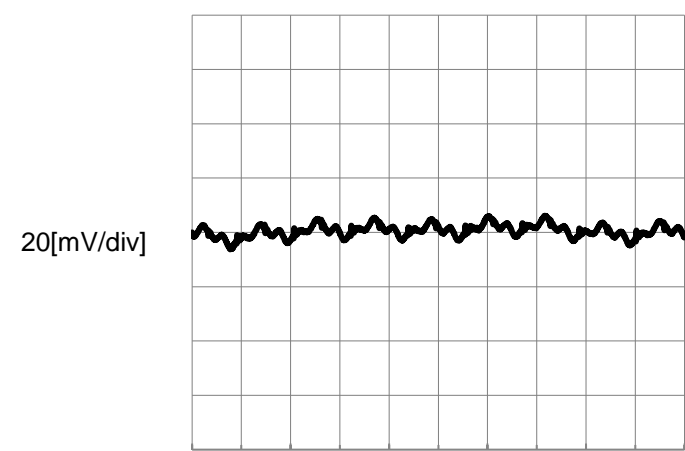
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1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>-·-○-</div><div>Input Volt.</div><div>9V</div></div></div>  <table><thead><tr><th rowspan="2">Load Ratio [%]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr></thead><tbody><tr><td>0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20</td><td>78.2</td><td>77.9</td><td>72.9</td></tr><tr><td>40</td><td>84.4</td><td>84.6</td><td>81.7</td></tr><tr><td>60</td><td>86.0</td><td>86.2</td><td>85.9</td></tr><tr><td>80</td><td>86.2</td><td>86.6</td><td>86.4</td></tr><tr><td>100</td><td>85.7</td><td>86.4</td><td>87.0</td></tr><tr><td>110</td><td>85.6</td><td>86.1</td><td>87.2</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></tbody></table>	Load Ratio [%]	Efficiency [%]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0	-	-	-	20	78.2	77.9	72.9	40	84.4	84.6	81.7	60	86.0	86.2	85.9	80	86.2	86.6	86.4	100	85.7	86.4	87.0	110	85.6	86.1	87.2	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	2.Values	
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<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>---○---</div><div>Input Volt.</div><div>9V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.00</td><td>-15.222</td><td>-15.222</td><td>-15.225</td></tr><tr><td>0.04</td><td>-15.138</td><td>-15.136</td><td>-15.139</td></tr><tr><td>0.08</td><td>-15.098</td><td>-15.095</td><td>-15.094</td></tr><tr><td>0.12</td><td>-15.065</td><td>-15.063</td><td>-15.060</td></tr><tr><td>0.16</td><td>-15.035</td><td>-15.034</td><td>-15.032</td></tr><tr><td>0.20</td><td>-15.006</td><td>-15.006</td><td>-15.008</td></tr><tr><td>0.22</td><td>-14.992</td><td>-14.993</td><td>-14.995</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> <p>+15V: Rated Load Current</p>		Load Current [A]	Output Voltage [V]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.00	-15.222	-15.222	-15.225	0.04	-15.138	-15.136	-15.139	0.08	-15.098	-15.095	-15.094	0.12	-15.065	-15.063	-15.060	0.16	-15.035	-15.034	-15.032	0.20	-15.006	-15.006	-15.008	0.22	-14.992	-14.993	-14.995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	-15V0.2A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>5V</div></div><div><div>Load</div><div>100%</div></div></div> <p>+15V: Rated Load Current</p>																																																						

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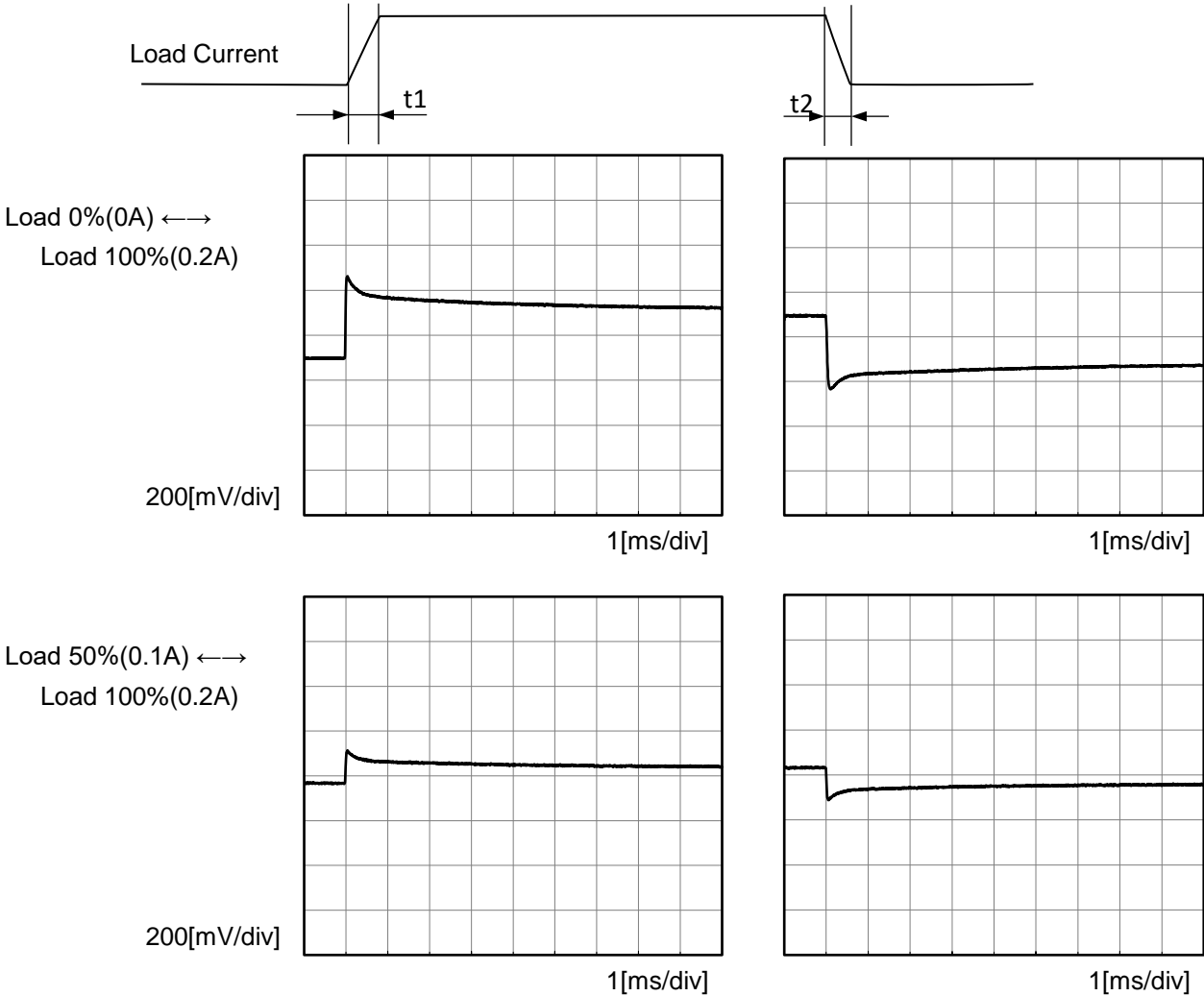
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Model		MUW60515	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		-15V0.2A	

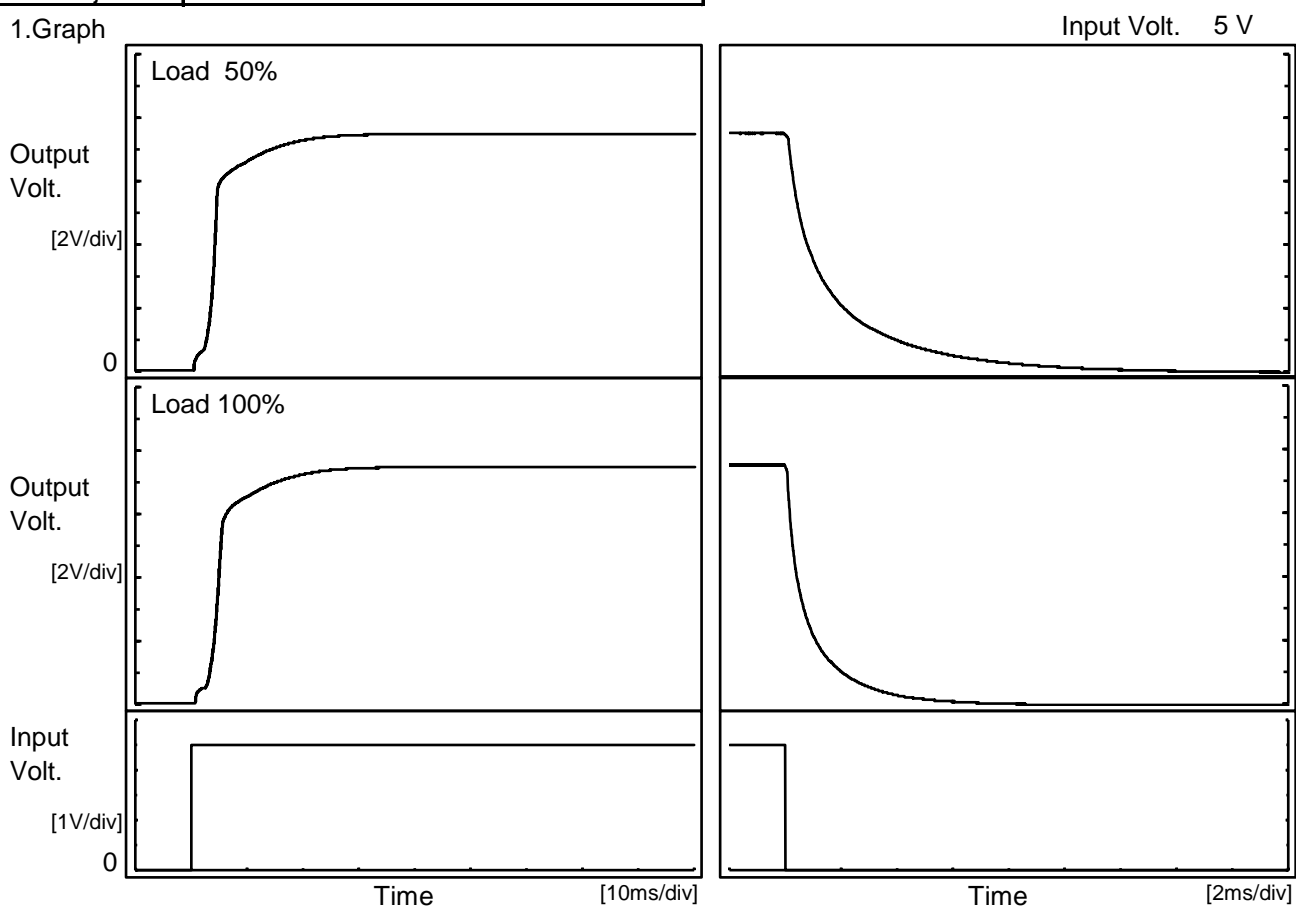
Input Volt. 5 V
+15V:Rated Load Current
Cycle 100 ms
Response. t1=t2=50μs. Typ



COSEL

Model	MUW60515	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.2A		

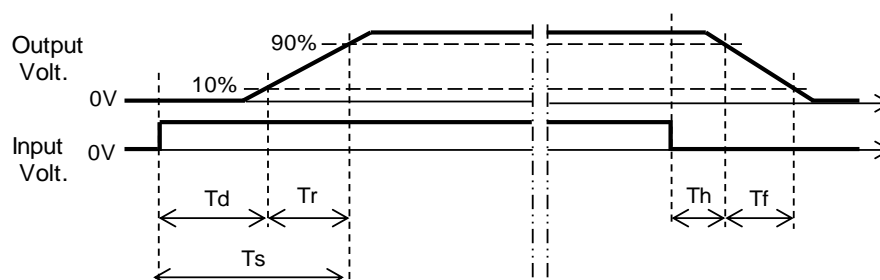
1.Graph



-15V: Load Current is same as +15V

2.Values

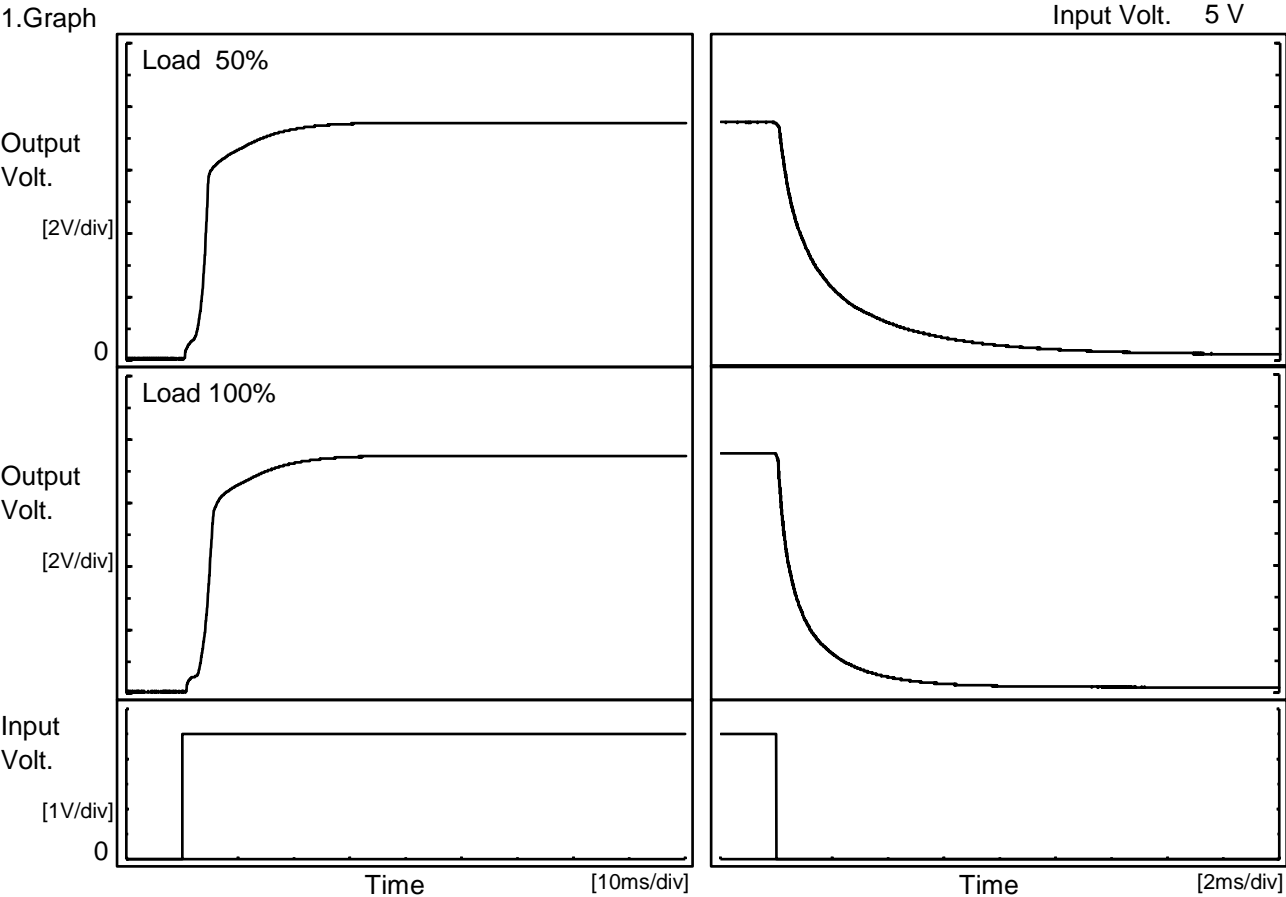
		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.3	8.4	10.7	0.2	4.8
100 %		3.0	8.5	11.5	0.1	2.5





Model	MUW60515	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.2A		

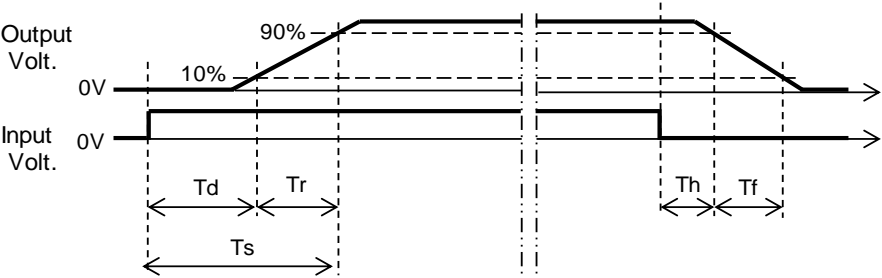
1.Graph



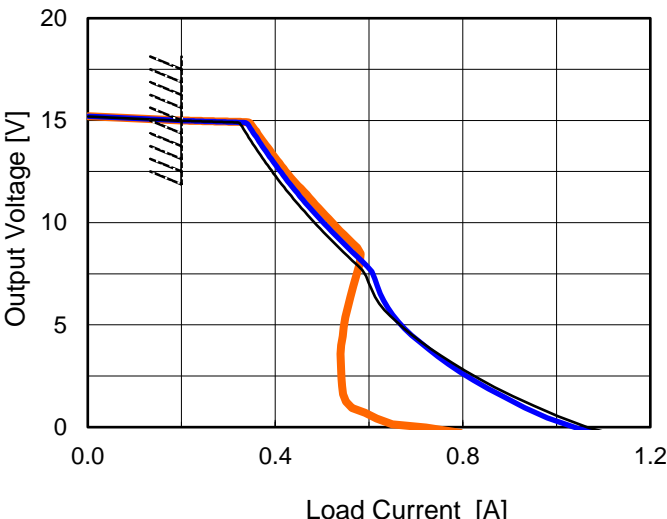
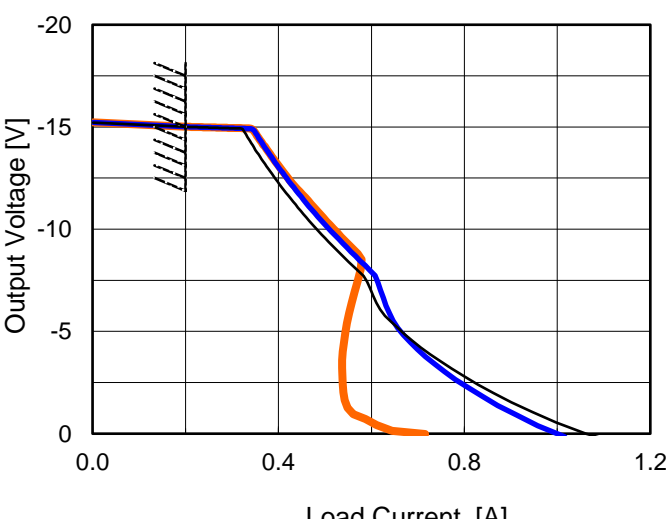
+15V:Load Current is same as -15V

2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.4	9.1	11.5	0.2	5.5
100 %		3.1	9.2	12.3	0.1	2.8



COSEL

Model	MUW60515																																																									
Item	Overcurrent Protection	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>Input Volt. 4.5V</div><div>Input Volt. 5V</div><div>Input Volt. 9V</div></div></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>14.25</td><td>0.34</td><td>0.36</td><td>0.37</td></tr><tr><td>13.50</td><td>0.37</td><td>0.38</td><td>0.39</td></tr><tr><td>12.00</td><td>0.41</td><td>0.43</td><td>0.44</td></tr><tr><td>10.50</td><td>0.47</td><td>0.48</td><td>0.51</td></tr><tr><td>9.00</td><td>0.53</td><td>0.55</td><td>0.57</td></tr><tr><td>7.50</td><td>0.59</td><td>0.61</td><td>0.57</td></tr><tr><td>6.00</td><td>0.63</td><td>0.64</td><td>0.55</td></tr><tr><td>4.50</td><td>0.71</td><td>0.69</td><td>0.54</td></tr><tr><td>3.00</td><td>0.80</td><td>0.79</td><td>0.54</td></tr><tr><td>1.50</td><td>0.95</td><td>0.89</td><td>0.55</td></tr><tr><td>0.00</td><td>1.07</td><td>1.05</td><td>0.72</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> <div>-15V : Rated Load Current</div>		Output Voltage [V]	Load Current [A]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	14.25	0.34	0.36	0.37	13.50	0.37	0.38	0.39	12.00	0.41	0.43	0.44	10.50	0.47	0.48	0.51	9.00	0.53	0.55	0.57	7.50	0.59	0.61	0.57	6.00	0.63	0.64	0.55	4.50	0.71	0.69	0.54	3.00	0.80	0.79	0.54	1.50	0.95	0.89	0.55	0.00	1.07	1.05	0.72	--	-	-	-
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Note: Slanted line shows the range of the rated load current.

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



		Testing Circuitry Figure A
Model	MUW60515	
Item	Ambient Temperature Drift	
Object	+15V0.2A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 4.5V	Input Volt. 5V	Input Volt. 9V
-40	14.880	14.883	14.890
25	14.987	14.989	14.994
85	15.005	15.007	15.011

-15V: Load Current is same as +15V

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	3.0	3.0
25	3.1	3.0
85	3.1	3.1

-15V: Load Current is same as +15V



		Testing Circuitry Figure A
Model	MUW60515	
Item	Ambient Temperature Drift	
Object	-15V0.2A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 4.5V	Input Volt. 5V	Input Volt. 9V
-40	-14.903	-14.904	-14.905
25	-15.006	-15.006	-15.007
85	-15.020	-15.020	-15.022

+15V: Load Current is same as -15V

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	3.0	3.0
25	3.1	3.0
85	3.1	3.1

+15V: Load Current is same as -15V

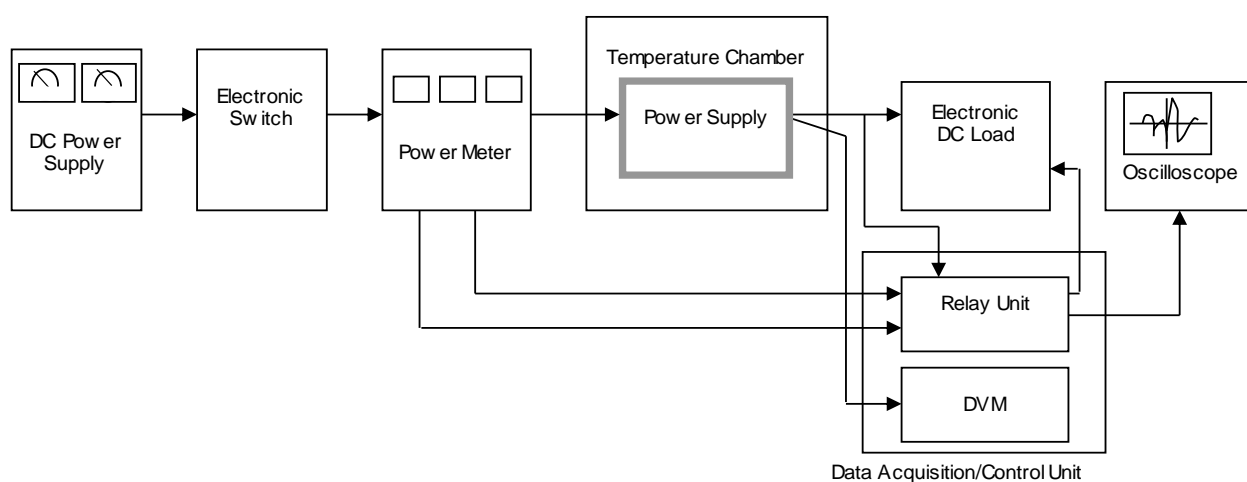


Figure A

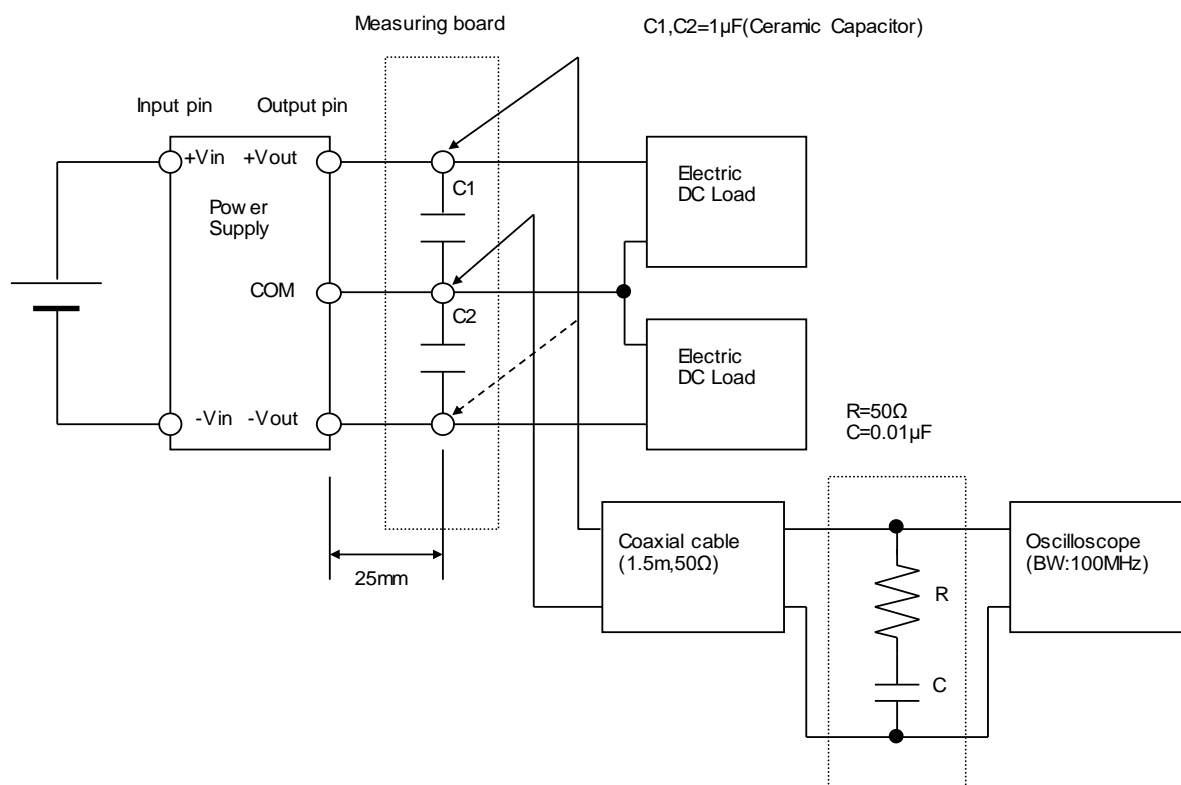


Figure B