

TEST DATA OF SUTS104815

Regulated DC Power Supply
February 16, 2009

Approved by : Kazunari Asano
Kazunari Asano Design Manager

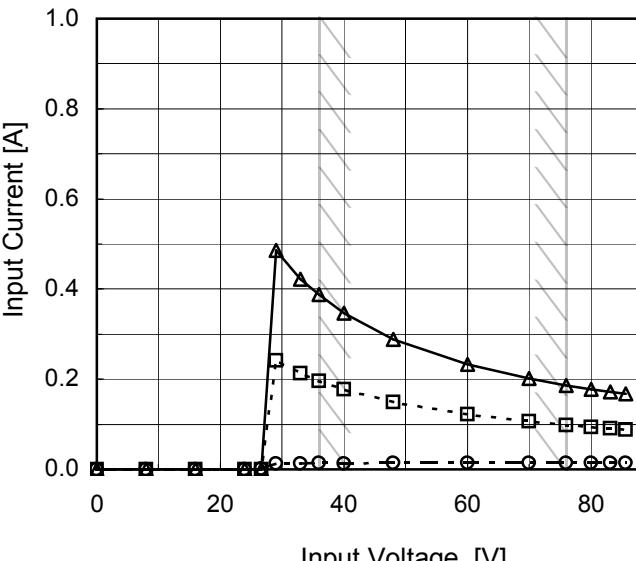
Prepared by : Sho Saito
Sho Saito Design Engineer

COSEL CO.,LTD.

CONTENTS

1. Input Current (by Input Voltage)	1
2. Input Current (by Load Current)	2
3. Input Power (by Load Current)	3
4. Efficiency (by Input Voltage)	4
5. Efficiency (by Load Current)	5
6. Line Regulation	6
7. Load Regulation	7
8. Dynamic Load Response	8
9. Ripple Voltage (by Load Current)	9
10. Ripple-Noise	10
11. Ripple Voltage (by Ambient Temperature)	11
12. Ambient Temperature Drift	12
13. Output Voltage Accuracy	13
14. Time Lapse Drift	14
15. Rise and Fall Time	15
16. Minimum Input Voltage for Regulated Output Voltage	16
17. Overcurrent Protection	17
18. Figure of Testing Circuitry	18

(Final Page 18)

Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																																																																																	
Item	Input Current (by Input Voltage)																																																																																		
Object	_____	2.Values																																																																																	
1.Graph	<p style="text-align: center;"> —△— Load 100% ---□--- Load 50% ---○--- Load 0% </p>  <p>Note: Slanted line shows the range of the rated input voltage.</p>	<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Load 0%</th> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr> <tr><td>8.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr> <tr><td>16.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr> <tr><td>24.0</td><td>0.001</td><td>0.001</td><td>0.001</td></tr> <tr><td>26.6</td><td>0.001</td><td>0.001</td><td>0.001</td></tr> <tr><td>29.0</td><td>0.013</td><td>0.241</td><td>0.486</td></tr> <tr><td>33.0</td><td>0.013</td><td>0.212</td><td>0.422</td></tr> <tr><td>36.0</td><td>0.014</td><td>0.196</td><td>0.387</td></tr> <tr><td>40.0</td><td>0.013</td><td>0.177</td><td>0.347</td></tr> <tr><td>48.0</td><td>0.014</td><td>0.149</td><td>0.289</td></tr> <tr><td>60.0</td><td>0.014</td><td>0.122</td><td>0.233</td></tr> <tr><td>70.0</td><td>0.014</td><td>0.106</td><td>0.201</td></tr> <tr><td>76.0</td><td>0.014</td><td>0.099</td><td>0.187</td></tr> <tr><td>80.0</td><td>0.014</td><td>0.094</td><td>0.178</td></tr> <tr><td>83.2</td><td>0.014</td><td>0.091</td><td>0.172</td></tr> <tr><td>85.6</td><td>0.014</td><td>0.088</td><td>0.167</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Input Voltage [V]	Input Current [A]			Load 0%	Load 50%	Load 100%	0.0	0.000	0.000	0.000	8.0	0.000	0.000	0.000	16.0	0.000	0.000	0.000	24.0	0.001	0.001	0.001	26.6	0.001	0.001	0.001	29.0	0.013	0.241	0.486	33.0	0.013	0.212	0.422	36.0	0.014	0.196	0.387	40.0	0.013	0.177	0.347	48.0	0.014	0.149	0.289	60.0	0.014	0.122	0.233	70.0	0.014	0.106	0.201	76.0	0.014	0.099	0.187	80.0	0.014	0.094	0.178	83.2	0.014	0.091	0.172	85.6	0.014	0.088	0.167	--	-	-	-	--	-	-	-
Input Voltage [V]	Input Current [A]																																																																																		
	Load 0%	Load 50%	Load 100%																																																																																
0.0	0.000	0.000	0.000																																																																																
8.0	0.000	0.000	0.000																																																																																
16.0	0.000	0.000	0.000																																																																																
24.0	0.001	0.001	0.001																																																																																
26.6	0.001	0.001	0.001																																																																																
29.0	0.013	0.241	0.486																																																																																
33.0	0.013	0.212	0.422																																																																																
36.0	0.014	0.196	0.387																																																																																
40.0	0.013	0.177	0.347																																																																																
48.0	0.014	0.149	0.289																																																																																
60.0	0.014	0.122	0.233																																																																																
70.0	0.014	0.106	0.201																																																																																
76.0	0.014	0.099	0.187																																																																																
80.0	0.014	0.094	0.178																																																																																
83.2	0.014	0.091	0.172																																																																																
85.6	0.014	0.088	0.167																																																																																
--	-	-	-																																																																																
--	-	-	-																																																																																

Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																																																		
Item	Input Current (by Load Current)																																																			
Object	_____																																																			
1.Graph		2.Values																																																		
<p>—△— Input Volt. 36V - - -□- - Input Volt. 48V - - ○ - - Input Volt. 76V</p>																																																				
<table border="1"> <thead> <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> </thead> <tbody> <tr><td>0.00</td><td>0.014</td><td>0.014</td><td>0.014</td></tr> <tr><td>0.16</td><td>0.085</td><td>0.068</td><td>0.046</td></tr> <tr><td>0.32</td><td>0.160</td><td>0.123</td><td>0.079</td></tr> <tr><td>0.48</td><td>0.234</td><td>0.177</td><td>0.117</td></tr> <tr><td>0.64</td><td>0.310</td><td>0.233</td><td>0.152</td></tr> <tr><td>0.80</td><td>0.389</td><td>0.290</td><td>0.187</td></tr> <tr><td>0.88</td><td>0.429</td><td>0.319</td><td>0.205</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 Current [A]	Input Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.014	0.014	0.014	0.16	0.085	0.068	0.046	0.32	0.160	0.123	0.079	0.48	0.234	0.177	0.117	0.64	0.310	0.233	0.152	0.80	0.389	0.290	0.187	0.88	0.429	0.319	0.205	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Current [A]																																																			
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																	
0.00	0.014	0.014	0.014																																																	
0.16	0.085	0.068	0.046																																																	
0.32	0.160	0.123	0.079																																																	
0.48	0.234	0.177	0.117																																																	
0.64	0.310	0.233	0.152																																																	
0.80	0.389	0.290	0.187																																																	
0.88	0.429	0.319	0.205																																																	
--	-	-	-																																																	
--	-	-	-																																																	
--	-	-	-																																																	
--	-	-	-																																																	
<p>Note: Slanted line shows the range of the rated load current.</p>																																																				

Model	SUTS104815																																																					
Item	Input Power (by Load Current)	Temperature Testing Circuitry	25°C Figure A																																																			
Object																																																						
1.Graph	<p>—△— Input Volt. 36V - - -□- - Input Volt. 48V - - ○ - - Input Volt. 76V</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>36V [W]</th> <th>48V [W]</th> <th>76V [W]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.49</td><td>0.66</td><td>1.07</td></tr> <tr><td>0.16</td><td>3.05</td><td>3.26</td><td>3.50</td></tr> <tr><td>0.32</td><td>5.74</td><td>5.88</td><td>6.04</td></tr> <tr><td>0.48</td><td>8.41</td><td>8.50</td><td>8.90</td></tr> <tr><td>0.64</td><td>11.14</td><td>11.17</td><td>11.53</td></tr> <tr><td>0.80</td><td>13.96</td><td>13.91</td><td>14.21</td></tr> <tr><td>0.88</td><td>15.40</td><td>15.31</td><td>15.57</td></tr> </tbody> </table>			Load Current [A]	36V [W]	48V [W]	76V [W]	0.00	0.49	0.66	1.07	0.16	3.05	3.26	3.50	0.32	5.74	5.88	6.04	0.48	8.41	8.50	8.90	0.64	11.14	11.17	11.53	0.80	13.96	13.91	14.21	0.88	15.40	15.31	15.57																			
Load Current [A]	36V [W]	48V [W]	76V [W]																																																			
0.00	0.49	0.66	1.07																																																			
0.16	3.05	3.26	3.50																																																			
0.32	5.74	5.88	6.04																																																			
0.48	8.41	8.50	8.90																																																			
0.64	11.14	11.17	11.53																																																			
0.80	13.96	13.91	14.21																																																			
0.88	15.40	15.31	15.57																																																			
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.49</td><td>0.66</td><td>1.07</td></tr> <tr><td>0.16</td><td>3.05</td><td>3.26</td><td>3.50</td></tr> <tr><td>0.32</td><td>5.74</td><td>5.88</td><td>6.04</td></tr> <tr><td>0.48</td><td>8.41</td><td>8.50</td><td>8.90</td></tr> <tr><td>0.64</td><td>11.14</td><td>11.17</td><td>11.53</td></tr> <tr><td>0.80</td><td>13.96</td><td>13.91</td><td>14.21</td></tr> <tr><td>0.88</td><td>15.40</td><td>15.31</td><td>15.57</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 Current [A]	Input Power [W]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.49	0.66	1.07	0.16	3.05	3.26	3.50	0.32	5.74	5.88	6.04	0.48	8.41	8.50	8.90	0.64	11.14	11.17	11.53	0.80	13.96	13.91	14.21	0.88	15.40	15.31	15.57	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																					
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																			
0.00	0.49	0.66	1.07																																																			
0.16	3.05	3.26	3.50																																																			
0.32	5.74	5.88	6.04																																																			
0.48	8.41	8.50	8.90																																																			
0.64	11.14	11.17	11.53																																																			
0.80	13.96	13.91	14.21																																																			
0.88	15.40	15.31	15.57																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note:	Slanted line shows the range of the rated load current.																																																					

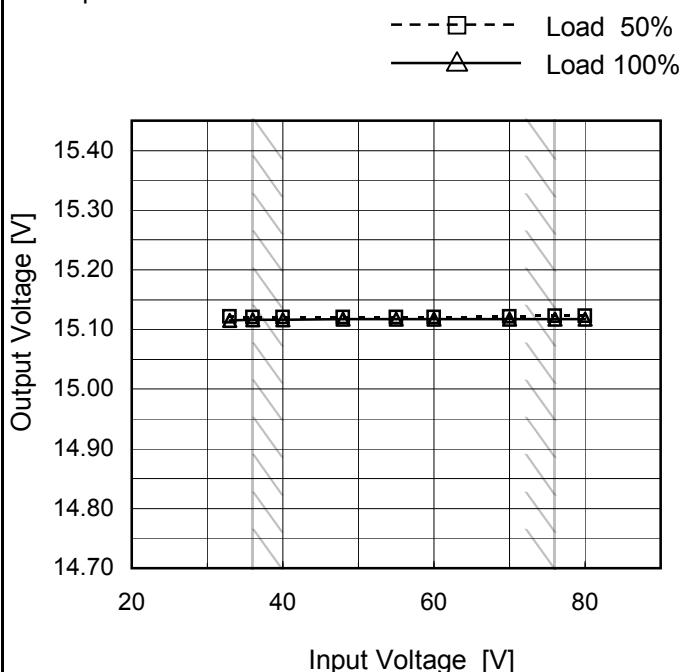
Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																													
Item	Efficiency (by Input Voltage)																														
Object	—																														
1. Graph		2. Values																													
<p>The graph plots Efficiency [%] on the y-axis (40 to 100) against Input Voltage [V] on the x-axis (20 to 80). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a slight decrease in efficiency as input voltage increases. A slanted line on the graph indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>33</td><td>86.2</td><td>86.5</td></tr> <tr><td>36</td><td>85.6</td><td>86.7</td></tr> <tr><td>40</td><td>85.2</td><td>86.9</td></tr> <tr><td>48</td><td>84.3</td><td>87.0</td></tr> <tr><td>55</td><td>83.2</td><td>86.8</td></tr> <tr><td>60</td><td>82.5</td><td>86.5</td></tr> <tr><td>70</td><td>81.0</td><td>85.6</td></tr> <tr><td>76</td><td>80.5</td><td>85.2</td></tr> <tr><td>80</td><td>80.4</td><td>84.8</td></tr> </tbody> </table>		Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	33	86.2	86.5	36	85.6	86.7	40	85.2	86.9	48	84.3	87.0	55	83.2	86.8	60	82.5	86.5	70	81.0	85.6	76	80.5	85.2	80	80.4	84.8
Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]																													
33	86.2	86.5																													
36	85.6	86.7																													
40	85.2	86.9																													
48	84.3	87.0																													
55	83.2	86.8																													
60	82.5	86.5																													
70	81.0	85.6																													
76	80.5	85.2																													
80	80.4	84.8																													
<p>Note: Slanted line shows the range of the rated input voltage.</p>																															

Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																																																
Item	Efficiency (by Load Current)																																																	
Object	_____																																																	
1.Graph		2.Values																																																
<p>—△— Input Volt. 36V - - -□- - Input Volt. 48V - - ○ - - Input Volt. 76V</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.16</td><td>79.5</td><td>74.2</td><td>69.3</td></tr> <tr><td>0.32</td><td>84.3</td><td>82.3</td><td>80.1</td></tr> <tr><td>0.48</td><td>86.4</td><td>85.4</td><td>81.6</td></tr> <tr><td>0.64</td><td>87.0</td><td>86.7</td><td>84.0</td></tr> <tr><td>0.80</td><td>86.8</td><td>87.1</td><td>85.2</td></tr> <tr><td>0.88</td><td>86.5</td><td>87.0</td><td>85.6</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 Current [A]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	-	-	-	0.16	79.5	74.2	69.3	0.32	84.3	82.3	80.1	0.48	86.4	85.4	81.6	0.64	87.0	86.7	84.0	0.80	86.8	87.1	85.2	0.88	86.5	87.0	85.6	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-		
Load Current [A]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																															
0.00	-	-	-																																															
0.16	79.5	74.2	69.3																																															
0.32	84.3	82.3	80.1																																															
0.48	86.4	85.4	81.6																																															
0.64	87.0	86.7	84.0																																															
0.80	86.8	87.1	85.2																																															
0.88	86.5	87.0	85.6																																															
--	-	-	-																																															
--	-	-	-																																															
--	-	-	-																																															
--	-	-	-																																															
<p>Note: Slanted line shows the range of the rated load current.</p>																																																		

Model	SUTS104815
Item	Line Regulation
Object	+15V0.8A

Temperature 25°C
Testing Circuitry Figure A

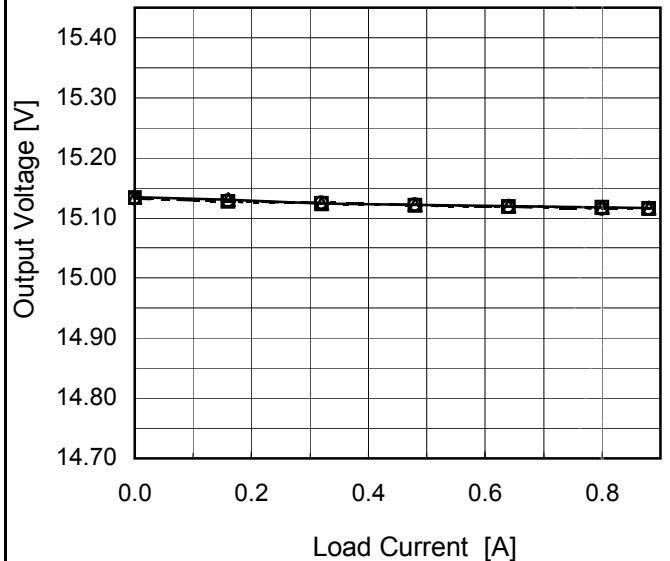
1.Graph



2.Values

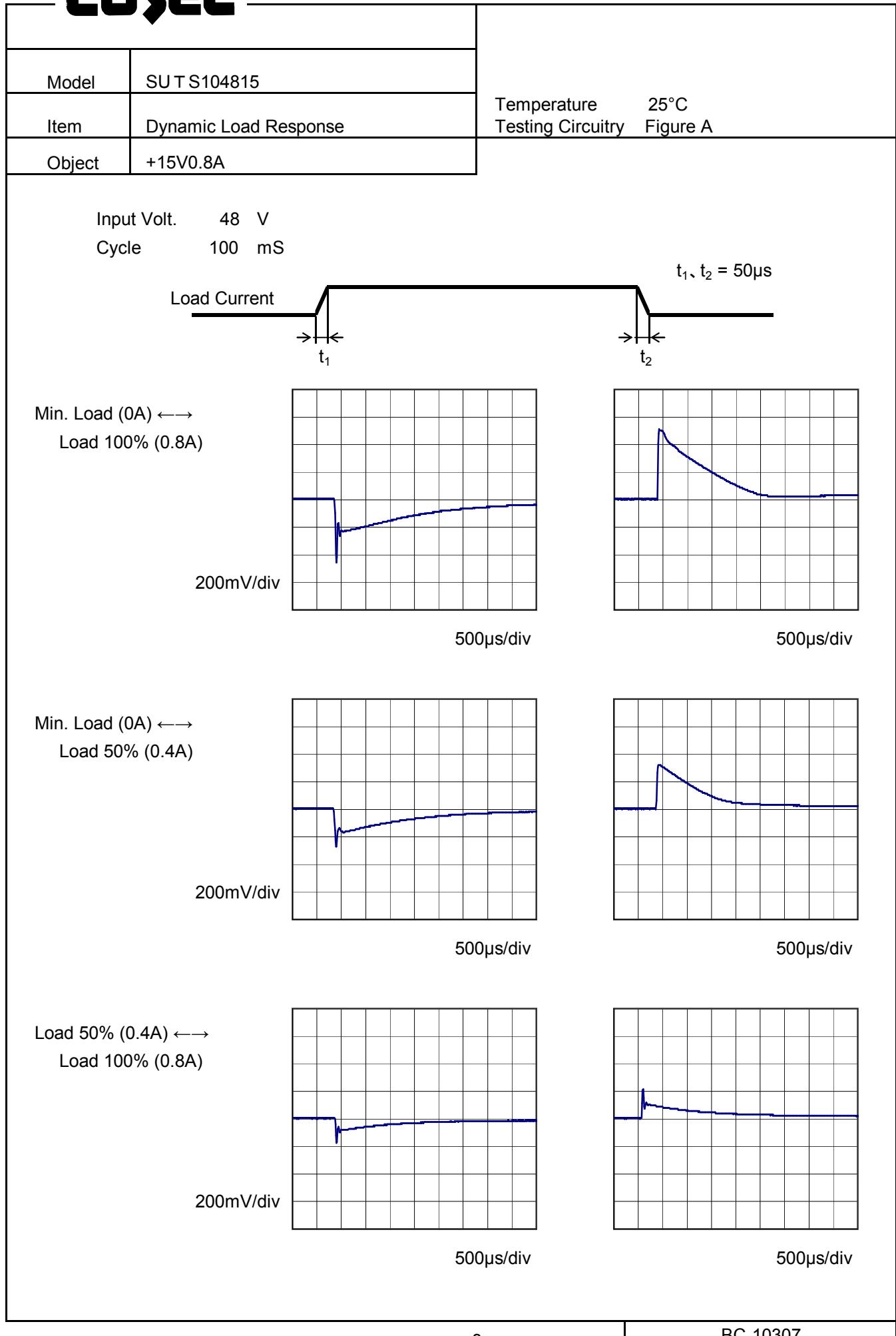
Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
33	15.122	15.116
36	15.121	15.116
40	15.121	15.116
48	15.121	15.117
55	15.121	15.118
60	15.121	15.117
70	15.122	15.117
76	15.123	15.118
80	15.123	15.118

Note: Slanted line shows the range of the rated input voltage.

Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																																																			
Item	Load Regulation																																																				
Object	+15V0.8A																																																				
1.Graph	<p>—△— Input Volt. 36V - - -□--- Input Volt. 48V - - -○--- Input Volt. 76V</p>  <p>The graph plots Output Voltage [V] on the Y-axis (14.70 to 15.40) against Load Current [A] on the X-axis (0.0 to 0.8). Three data series are shown for input voltages of 36V, 48V, and 76V. All three series show a slight downward trend as load current increases, with the 76V series being the highest and the 36V series being the lowest. A slanted line indicates the rated load current range.</p>	2.Values																																																			
		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>15.134</td><td>15.133</td><td>15.133</td></tr> <tr><td>0.16</td><td>15.130</td><td>15.128</td><td>15.128</td></tr> <tr><td>0.32</td><td>15.124</td><td>15.124</td><td>15.126</td></tr> <tr><td>0.48</td><td>15.122</td><td>15.121</td><td>15.122</td></tr> <tr><td>0.64</td><td>15.119</td><td>15.119</td><td>15.119</td></tr> <tr><td>0.80</td><td>15.117</td><td>15.117</td><td>15.116</td></tr> <tr><td>0.88</td><td>15.116</td><td>15.116</td><td>15.116</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 Current [A]	Output Voltage [V]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	15.134	15.133	15.133	0.16	15.130	15.128	15.128	0.32	15.124	15.124	15.126	0.48	15.122	15.121	15.122	0.64	15.119	15.119	15.119	0.80	15.117	15.117	15.116	0.88	15.116	15.116	15.116	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																				
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																		
0.00	15.134	15.133	15.133																																																		
0.16	15.130	15.128	15.128																																																		
0.32	15.124	15.124	15.126																																																		
0.48	15.122	15.121	15.122																																																		
0.64	15.119	15.119	15.119																																																		
0.80	15.117	15.117	15.116																																																		
0.88	15.116	15.116	15.116																																																		
--	-	-	-																																																		
--	-	-	-																																																		
--	-	-	-																																																		
--	-	-	-																																																		

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

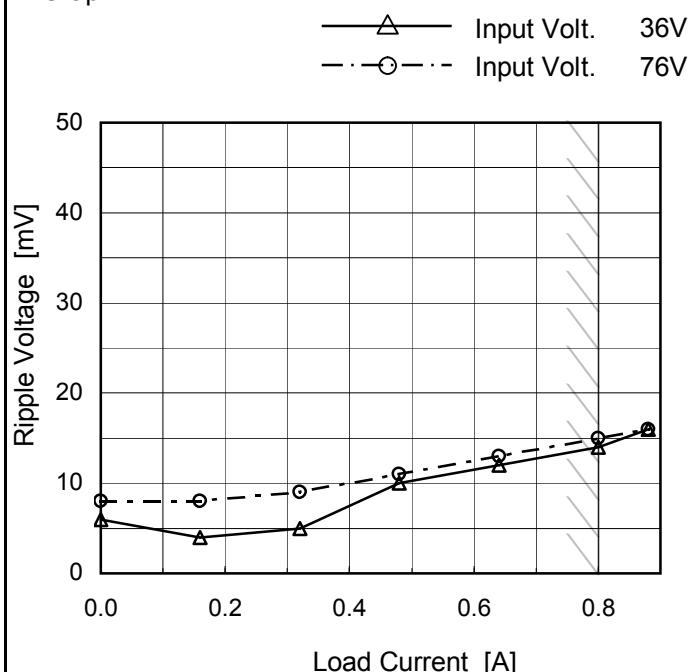
COSEL



Model	SUTS104815
Item	Ripple Voltage (by Load Current)
Object	+15V0.8A

Temperature 25°C
Testing Circuitry Figure B

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	6	8
0.16	4	8
0.32	5	9
0.48	10	11
0.64	12	13
0.80	14	15
0.88	16	16
--	-	-
--	-	-
--	-	-
--	-	-

Ripple Voltage is shown as p-p in the figure below.

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

Ripple [mVp-p]

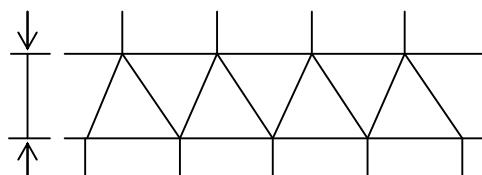
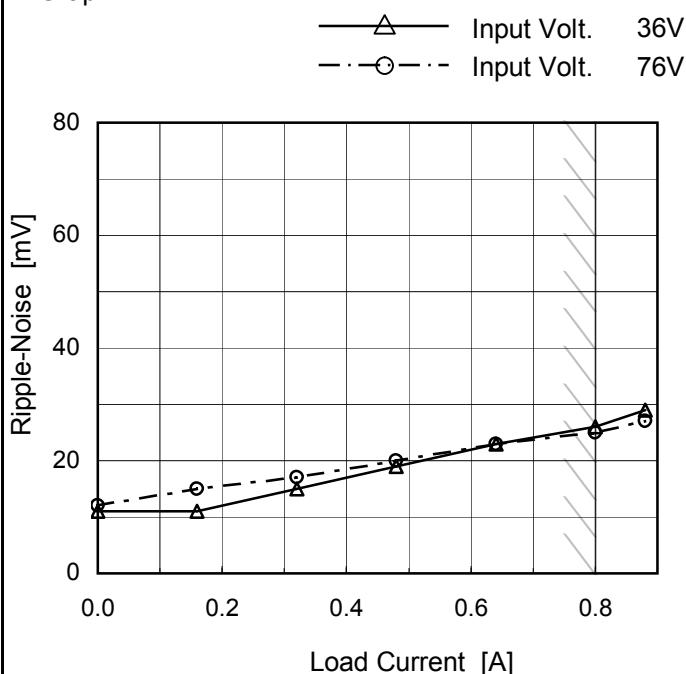


Fig.Complex Ripple Wave Form

Model	SUTS104815
Item	Ripple-Noise
Object	+15V0.8A

1. Graph



Measured by 100 MHz Oscilloscope.

Ripple-Noise is shown as p-p in the figure below.

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

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	11	12
0.16	11	15
0.32	15	17
0.48	19	20
0.64	23	23
0.80	26	25
0.88	29	27
--	-	-
--	-	-
--	-	-
--	-	-

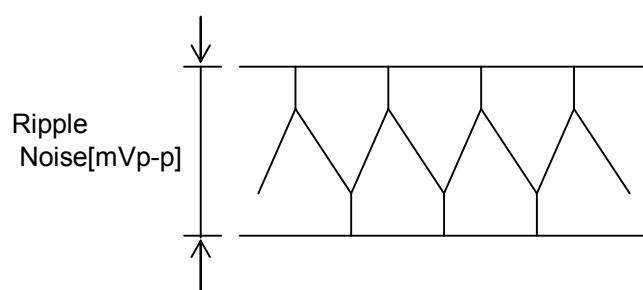
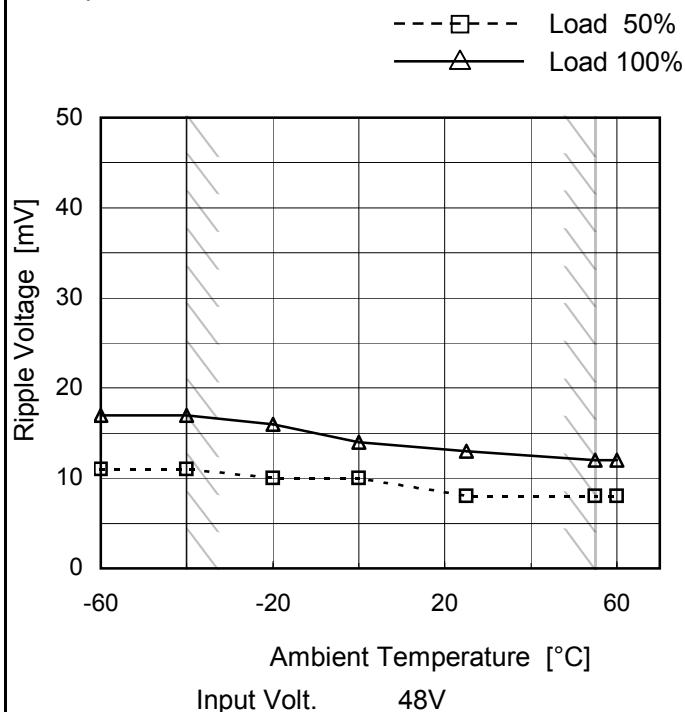


Fig.Complex Ripple Noise Wave Form

Model	SUTS104815
Item	Ripple Voltage (by Ambient Temp.)
Object	+15V0.8A

1. Graph



Measured by 100 MHz Oscilloscope.

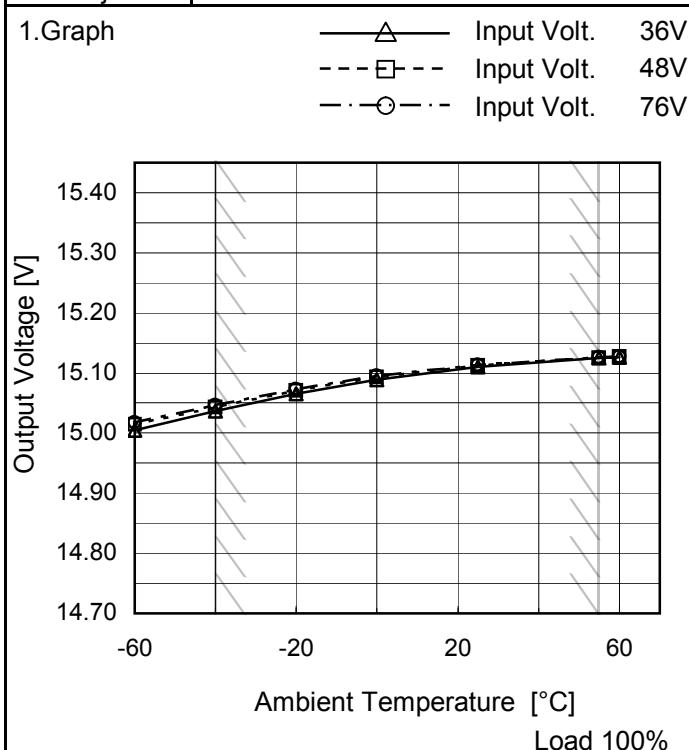
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure B

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	11	17
-40	11	17
-20	10	16
0	10	14
25	8	13
55	8	12
60	8	12
--	-	-
--	-	-
--	-	-
--	-	-

Model	SUTS104815
Item	Ambient Temperature Drift
Object	+15V0.8A



Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
-60	15.005	15.014	15.018
-40	15.037	15.043	15.047
-20	15.065	15.071	15.073
0	15.089	15.093	15.095
25	15.110	15.113	15.114
55	15.125	15.126	15.126
60	15.126	15.127	15.127
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated ambient temperature.



Model	SUTS104815	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+15V0.8A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -40 - 55°C

Input Voltage : 36 - 76V

Load Current : 0 - 0.8A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

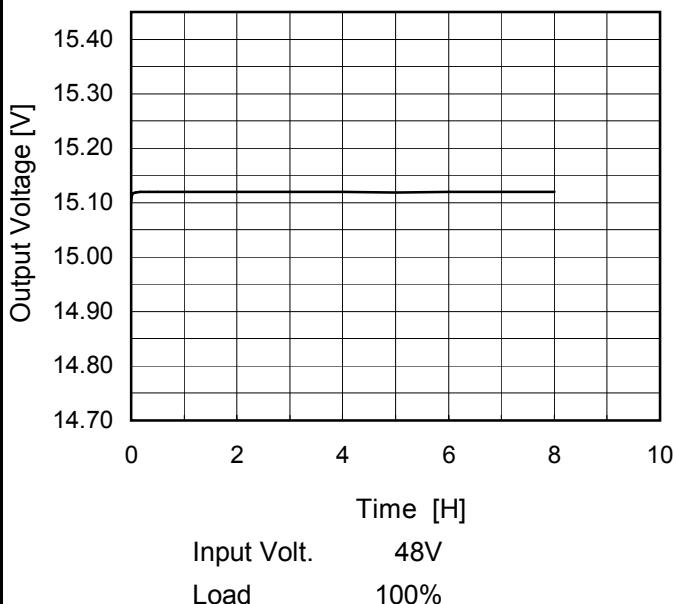
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	36	0	15.142	±53	±0.4
Minimum Voltage	-40	36	0.8	15.037		

COSEL

Model	SUTS104815
Item	Time Lapse Drift
Object	+15V0.8A

1.Graph



Temperature 25°C
Testing Circuitry Figure A

2.Values

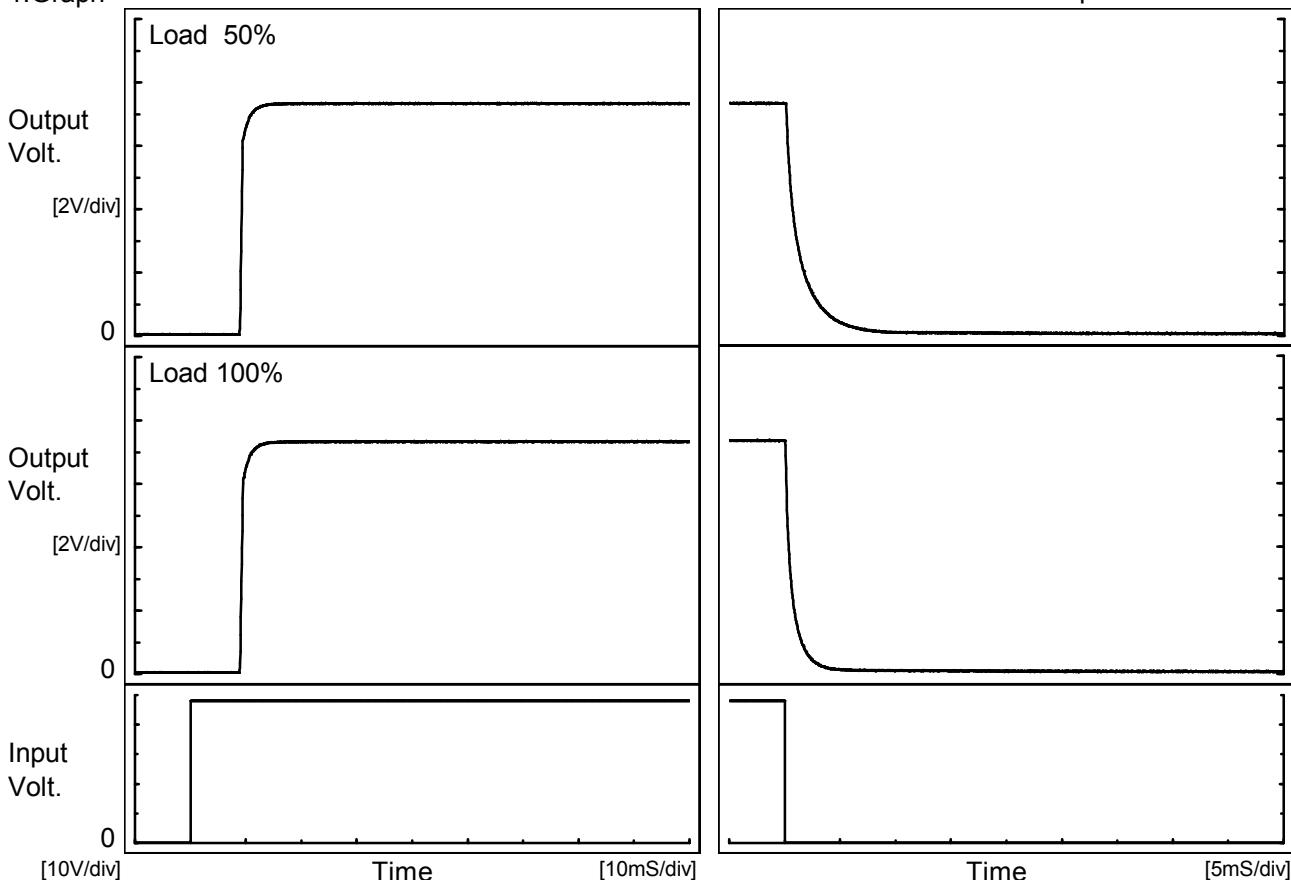
Time since start [H]	Output Voltage [V]
0.0	15.102
0.5	15.120
1.0	15.120
2.0	15.120
3.0	15.120
4.0	15.120
5.0	15.119
6.0	15.119
7.0	15.120
8.0	15.119

COSEL

Model	SUTS104815
Item	Rise and Fall Time
Object	+15V0.8A

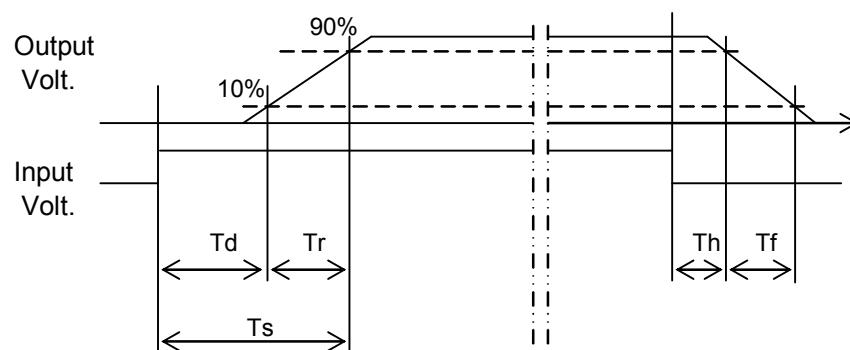
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

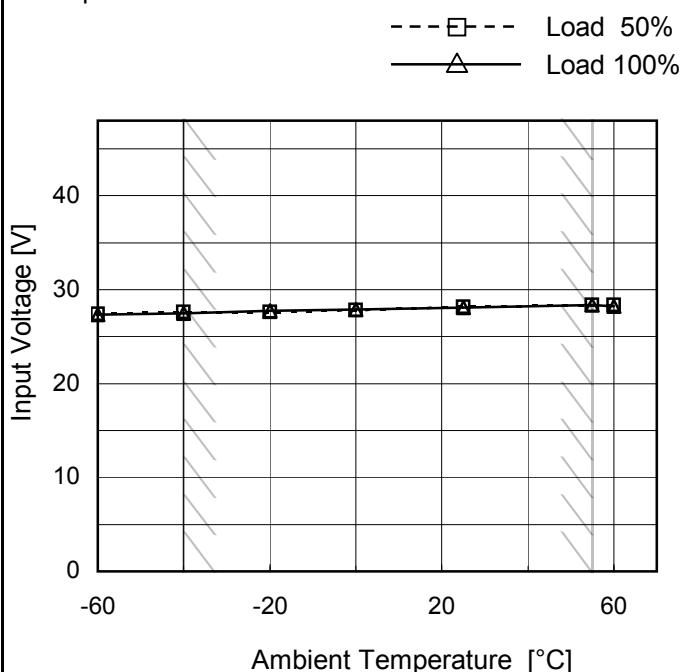
Load	Time	Td	Tr	Ts	Th	Tf	[mS]
50 %		9.0	1.5	10.5	0.1	3.4	
100 %		9.1	1.6	10.7	0.1	1.7	



Model	SUTS104815
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+15V0.8A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	27.5	27.4
-40	27.6	27.6
-20	27.6	27.8
0	27.9	28.0
25	28.2	28.2
55	28.4	28.4
60	28.4	28.3
--	-	-
--	-	-
--	-	-
--	-	-

Note: Slanted line shows the range of the rated ambient temperature.

Model	SUTS104815	Temperature Testing Circuitry 25°C Figure A																																																						
Item	Overcurrent Protection																																																							
Object	+15V0.8A																																																							
1.Graph	<p>Input Volt. 36V Input Volt. 48V Input Volt. 76V</p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>	2.Values																																																						
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>15.0</td><td>0.80</td><td>0.81</td><td>0.80</td></tr> <tr><td>14.3</td><td>1.06</td><td>1.16</td><td>1.23</td></tr> <tr><td>13.5</td><td>1.10</td><td>1.20</td><td>1.27</td></tr> <tr><td>12.0</td><td>1.18</td><td>1.29</td><td>1.38</td></tr> <tr><td>10.5</td><td>1.25</td><td>1.36</td><td>1.43</td></tr> <tr><td>9.0</td><td>1.28</td><td>1.38</td><td>1.42</td></tr> <tr><td>7.5</td><td>1.30</td><td>1.39</td><td>1.41</td></tr> <tr><td>6.0</td><td>1.34</td><td>1.41</td><td>1.38</td></tr> <tr><td>4.5</td><td>1.39</td><td>1.43</td><td>1.31</td></tr> <tr><td>3.0</td><td>1.44</td><td>1.41</td><td>1.20</td></tr> <tr><td>1.5</td><td>1.45</td><td>1.37</td><td>1.07</td></tr> <tr><td>0.0</td><td>1.42</td><td>1.57</td><td>2.84</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	15.0	0.80	0.81	0.80	14.3	1.06	1.16	1.23	13.5	1.10	1.20	1.27	12.0	1.18	1.29	1.38	10.5	1.25	1.36	1.43	9.0	1.28	1.38	1.42	7.5	1.30	1.39	1.41	6.0	1.34	1.41	1.38	4.5	1.39	1.43	1.31	3.0	1.44	1.41	1.20	1.5	1.45	1.37	1.07	0.0	1.42	1.57	2.84
Output Voltage [V]	Load Current [A]																																																							
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																					
15.0	0.80	0.81	0.80																																																					
14.3	1.06	1.16	1.23																																																					
13.5	1.10	1.20	1.27																																																					
12.0	1.18	1.29	1.38																																																					
10.5	1.25	1.36	1.43																																																					
9.0	1.28	1.38	1.42																																																					
7.5	1.30	1.39	1.41																																																					
6.0	1.34	1.41	1.38																																																					
4.5	1.39	1.43	1.31																																																					
3.0	1.44	1.41	1.20																																																					
1.5	1.45	1.37	1.07																																																					
0.0	1.42	1.57	2.84																																																					

coSEL

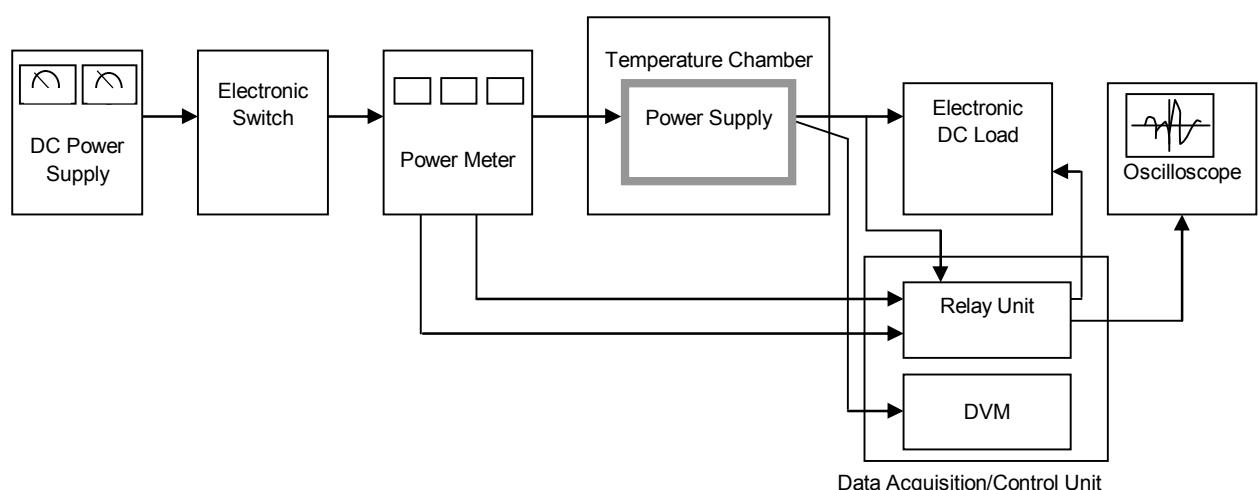


Figure A

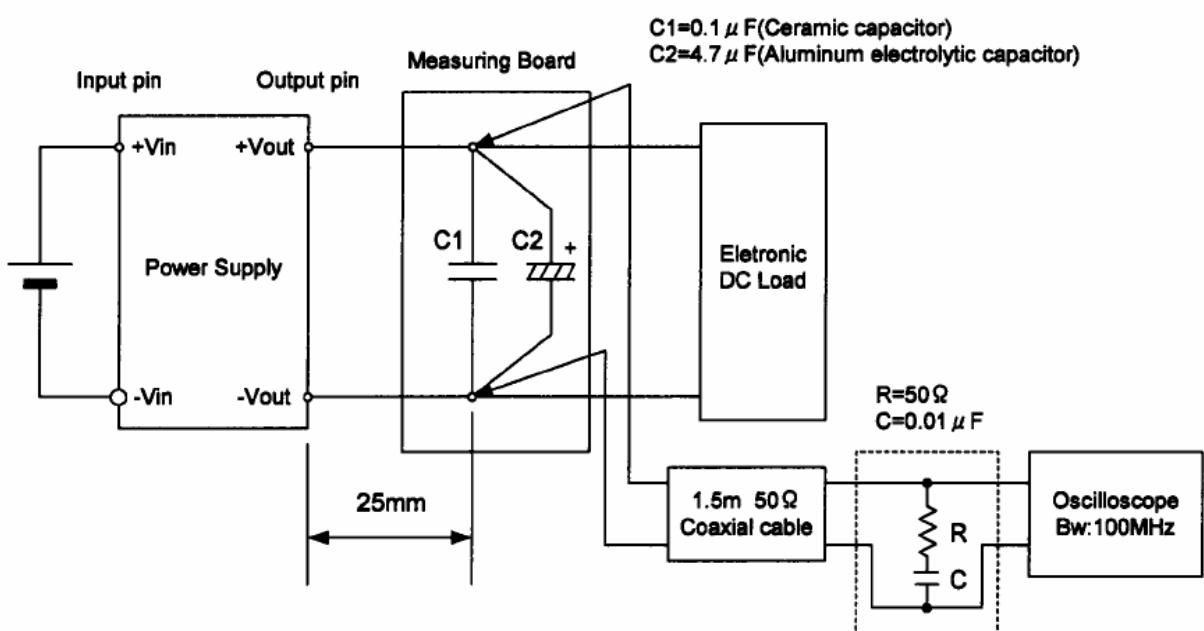


Figure B (Ripple and Ripple noise Characteristic)