



TEST DATA OF SUS104815 SU CS104815

Regulated DC Power Supply
Mar 25, 2005

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Tetsuo Sugimori Design Manager

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Yoshimichi Hirokawa Design Engineer

COSEL CO.,LTD.



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Model	SUS104815/SUCCS104815	Temperature 25°C Testing Circuitry Figure A																																																																																	
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Note: Slanted line shows the range of the rated input voltage.

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Item	Efficiency (by Input Voltage)	Temperature 25°C Testing Circuitry Figure A																																
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<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Load 50% (dashed line with squares)</p> <p>Load 100% (solid line with triangles)</p>																																		
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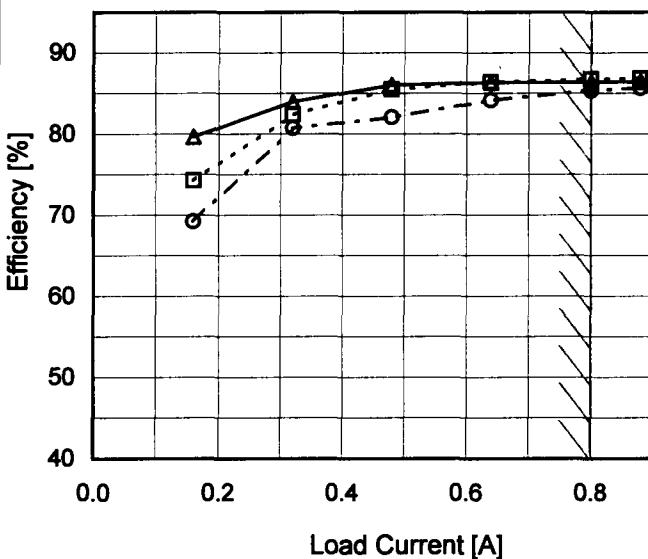
Model SUS104815/SUCS104815

Item Efficiency (by Load Current)

Object _____

1. Graph

—△— Input Volt. 36V
 - -□--- Input Volt. 48V
 - -○--- Input Volt. 76V



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

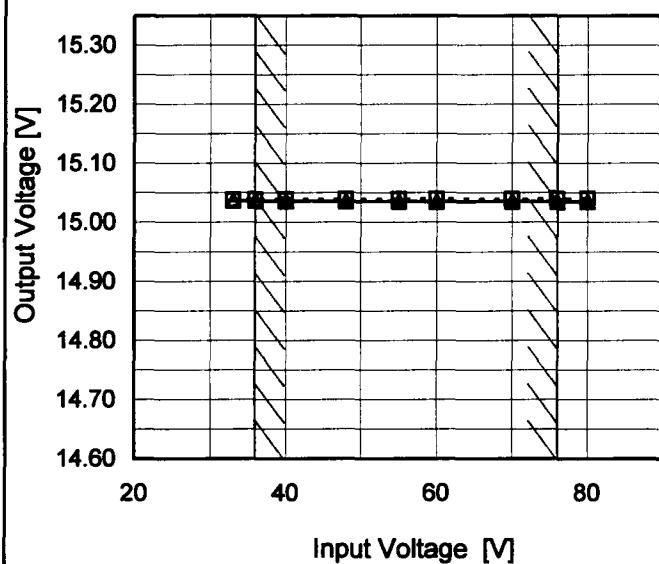
Load Current [A]	Efficiency [%]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	-	-	-
0.16	79.7	74.3	69.2
0.32	84.0	82.4	80.7
0.48	86.0	85.5	82.1
0.64	86.3	86.4	84.2
0.80	86.4	86.7	85.4
0.88	86.5	86.9	85.7
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Model	SUS104815/SUCCS104815
Item	Line Regulation
Object	+15V0.8A

1. Graph

--- □ --- Load 50%
 —△— Load 100%



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

Temperature 25°C
 Testing Circuitry Figure A

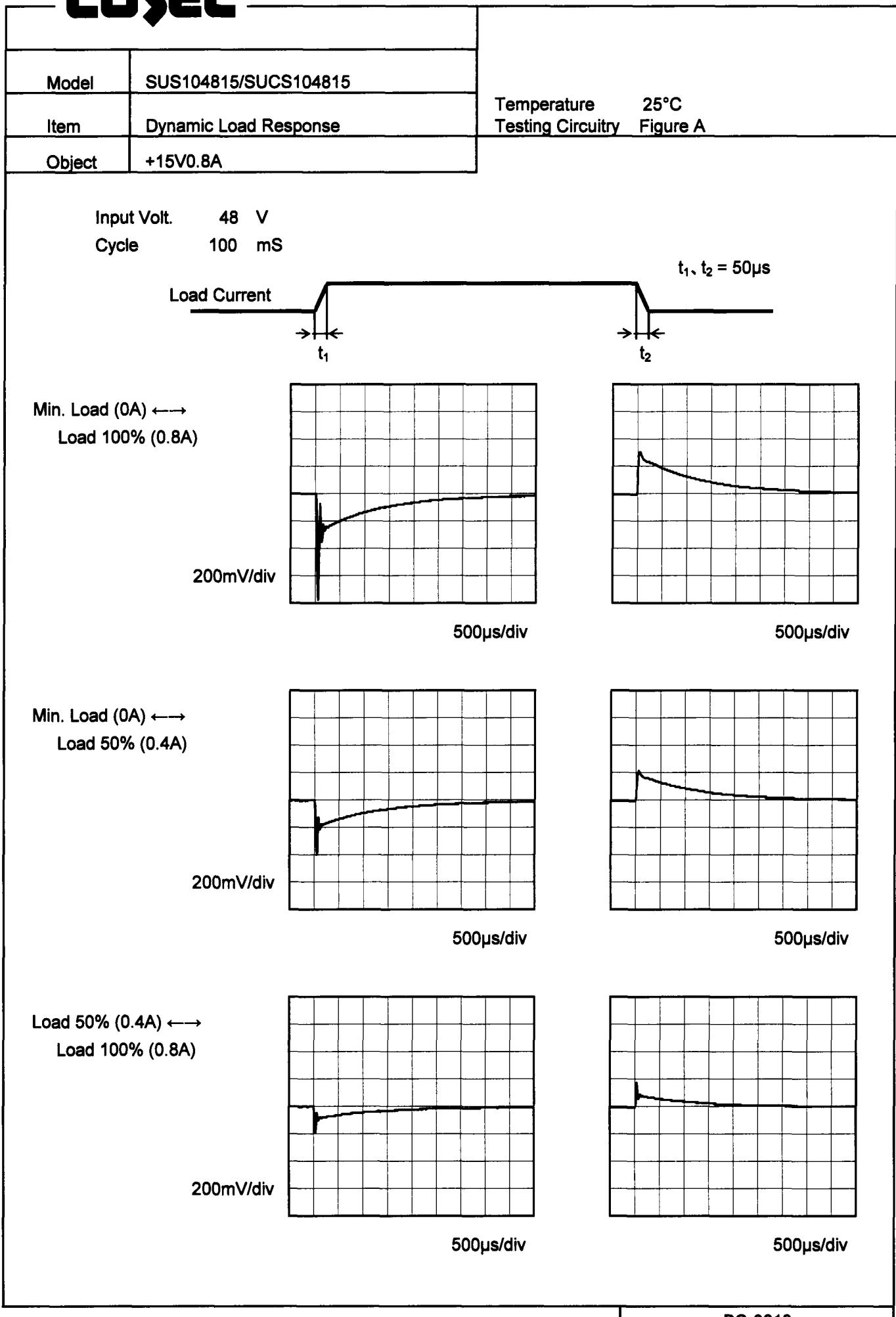
2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
33	15.038	15.037
36	15.039	15.037
40	15.039	15.036
48	15.039	15.035
55	15.040	15.035
60	15.040	15.035
70	15.039	15.036
76	15.040	15.035
80	15.041	15.035

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

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Item	Ripple Voltage (by Load Current)	Testing Circuitry	Figure B																																						
Object	+15V0.8A																																								
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<p>The graph plots Ripple Voltage [mV] on the y-axis (0 to 80) against Load Current [A] on the x-axis (0.0 to 0.8). Two curves are shown: one for Input Volt. 36V (solid line with triangle markers) and one for Input Volt. 76V (dashed line with circle markers). Both curves show a slight increase in ripple voltage as load current increases. A slanted line is drawn across the graph, starting from approximately (0.05, 5) and ending at (0.8, 13), indicating the range of rated load current.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 36 [V]</th> <th>Input Volt. 76 [V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>2</td><td>5</td></tr> <tr><td>0.16</td><td>8</td><td>15</td></tr> <tr><td>0.32</td><td>8</td><td>8</td></tr> <tr><td>0.48</td><td>9</td><td>9</td></tr> <tr><td>0.64</td><td>12</td><td>10</td></tr> <tr><td>0.80</td><td>12</td><td>11</td></tr> <tr><td>0.88</td><td>13</td><td>11</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 36 [V]	Input Volt. 76 [V]	0.00	2	5	0.16	8	15	0.32	8	8	0.48	9	9	0.64	12	10	0.80	12	11	0.88	13	11	-	-	-	-	-	-	-	-	-	-	-	-
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<p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>		<p>The diagram illustrates a complex ripple wave form. It consists of multiple triangular cycles plotted between two horizontal reference lines. An arrow points downwards from the top line, indicating the direction of the waveform's excursion.</p>																																							
<p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																									

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Model SUS104815/SUCS104815

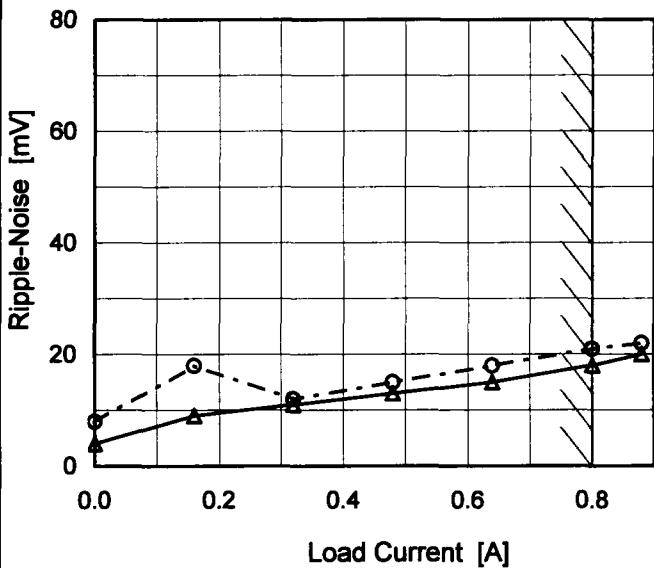
Item Ripple-Noise

Object +15V0.8A

Temperature 25°C
Testing Circuitry Figure B

1. Graph

—△— Input Volt. 36V
 - -○--- Input Volt. 76V



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	4	8
0.16	9	18
0.32	11	12
0.48	13	15
0.64	15	18
0.80	18	21
0.88	20	22
-	-	-
-	-	-
-	-	-
-	-	-

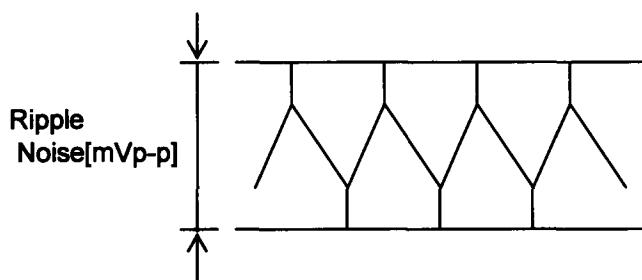


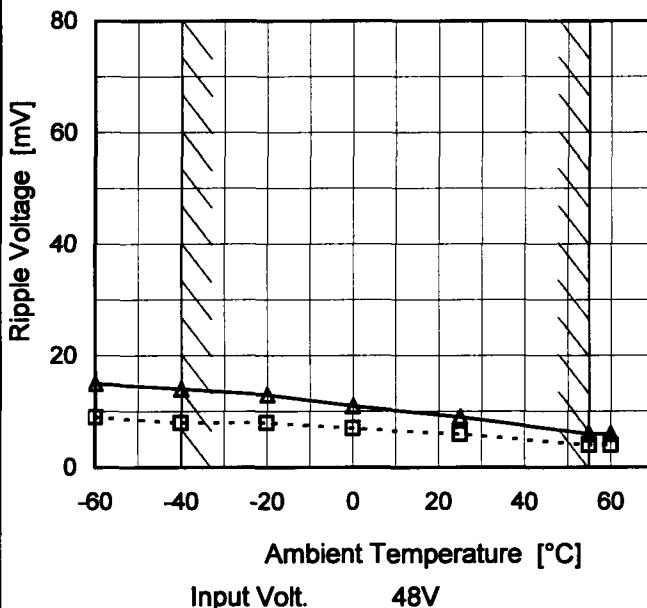
Fig.Complex Ripple Noise Wave Form

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Model	SUS104815/SUCCS104815
Item	Ripple Voltage (by Ambient Temp.)
Object	+15V0.8A

1. Graph

---□--- Load 50%
—△— Load 100%



Measured by 100 MHz Oscilloscope.

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

Testing Circuitry Figure B

2. Values

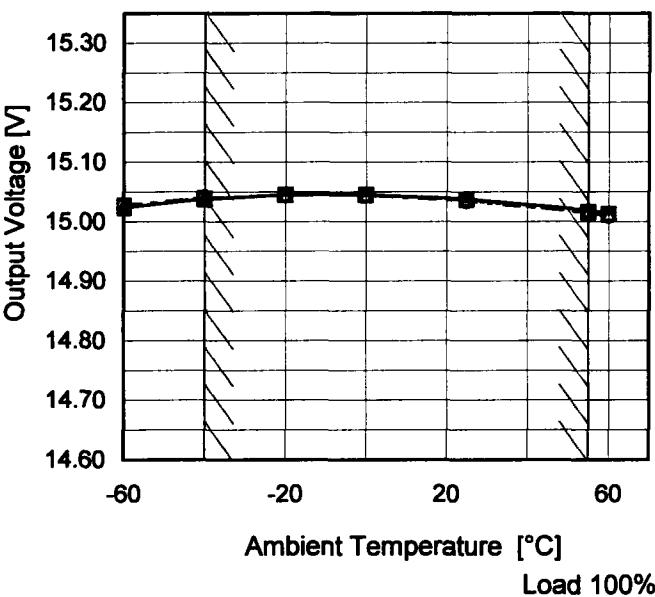
Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	9	15
-40	8	14
-20	8	13
0	7	11
25	6	9
55	4	6
60	4	6
-	-	-
-	-	-
-	-	-
-	-	-

COSEL

Model	SUS104815/SUCS104815
Item	Ambient Temperature Drift
Object	+15V0.8A

1.Graph

—△— Input Volt. 36V
 - - -□--- Input Volt. 48V
 - - -○--- Input Volt. 76V



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

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	15.024	15.027	15.028
-40	15.038	15.039	15.040
-20	15.045	15.045	15.045
0	15.045	15.045	15.045
25	15.038	15.037	15.035
55	15.019	15.016	15.016
60	15.013	15.012	15.010
—	-	-	-
—	-	-	-
—	-	-	-
--	-	-	-



Model	SUS104815/SUCS104815	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	-20	36	0	15.052	±18	±0.1
Minimum Voltage	55	48	0.8	15.016		

COSEL

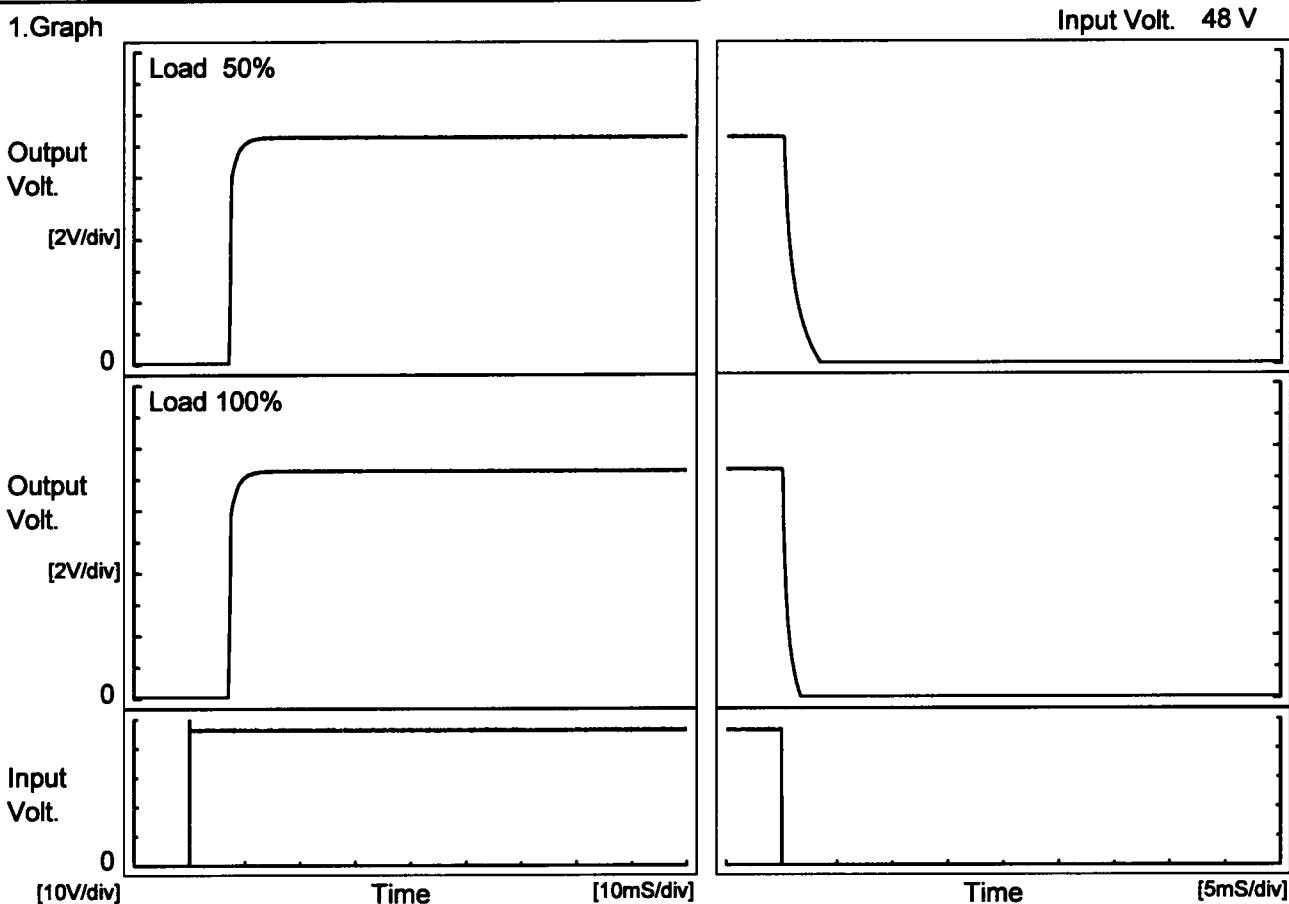
Model	SUS104815/SUCS104815	Temperature 25°C Testing Circuitry Figure A																						
Item	Time Lapse Drift																							
Object	+15V0.8A																							
1. Graph		2. Values																						
<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 48V Load 100%</p>		<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>15.038</td></tr> <tr><td>0.5</td><td>15.035</td></tr> <tr><td>1.0</td><td>15.035</td></tr> <tr><td>2.0</td><td>15.035</td></tr> <tr><td>3.0</td><td>15.035</td></tr> <tr><td>4.0</td><td>15.035</td></tr> <tr><td>5.0</td><td>15.035</td></tr> <tr><td>6.0</td><td>15.035</td></tr> <tr><td>7.0</td><td>15.035</td></tr> <tr><td>8.0</td><td>15.035</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	15.038	0.5	15.035	1.0	15.035	2.0	15.035	3.0	15.035	4.0	15.035	5.0	15.035	6.0	15.035	7.0	15.035	8.0	15.035
Time since start [H]	Output Voltage [V]																							
0.0	15.038																							
0.5	15.035																							
1.0	15.035																							
2.0	15.035																							
3.0	15.035																							
4.0	15.035																							
5.0	15.035																							
6.0	15.035																							
7.0	15.035																							
8.0	15.035																							

COSEL

Model	SUS104815/SUCCS104815
Item	Rise and Fall Time
Object	+15V0.8A

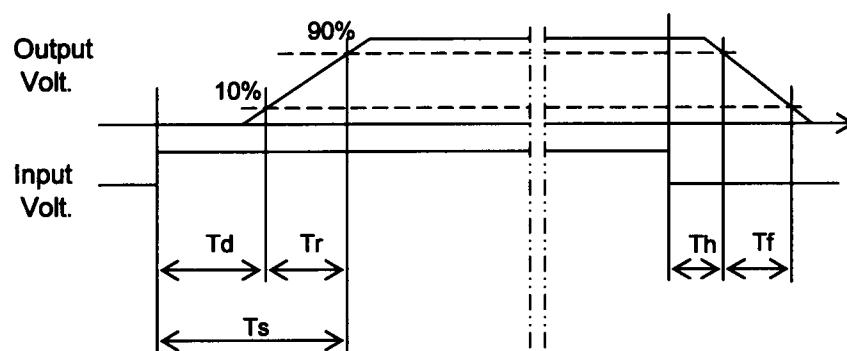
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

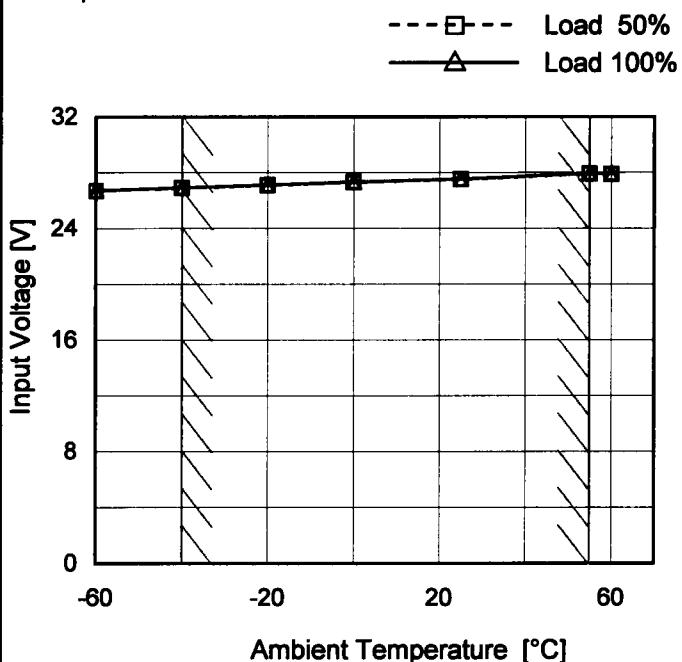
Load	Time	Td	Tr	Ts	Th	Tf	[mS]
50 %		7.2	1.7	8.9	0.2	2.2	
100 %		7.1	1.8	8.9	0.1	1.1	



COSEL

Model	SUS104815/SUCS104815
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+15V0.8A

1. Graph



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	26.7	26.8
-40	26.9	27.0
-20	27.1	27.2
0	27.4	27.4
25	27.6	27.6
55	27.9	28.0
60	27.9	28.0
-	-	-
-	-	-
-	-	-
-	-	-

COSEL

Model	SUS104815/SUCS104815
Item	Overcurrent Protection
Object	+15V0.8A

1.Graph

Output Voltage [V]

Load Current [A]

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

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
15.0	1.12	1.24	1.35
14.3	1.16	1.28	1.39
13.5	1.20	1.33	1.43
12.0	1.30	1.44	1.54
10.5	1.39	1.52	1.60
9.0	1.43	1.56	1.62
7.5	1.47	1.58	1.60
6.0	1.50	1.59	1.52
4.5	1.57	1.58	1.45
3.0	1.58	1.54	1.37
1.5	1.58	1.53	1.26
0.0	1.56	1.50	2.50

COSEL

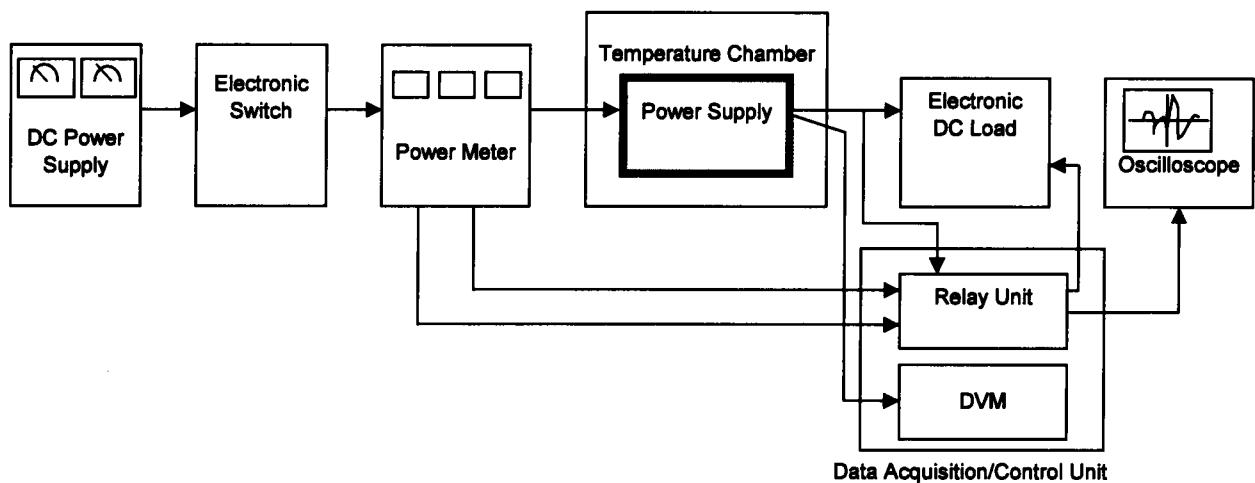


Figure A

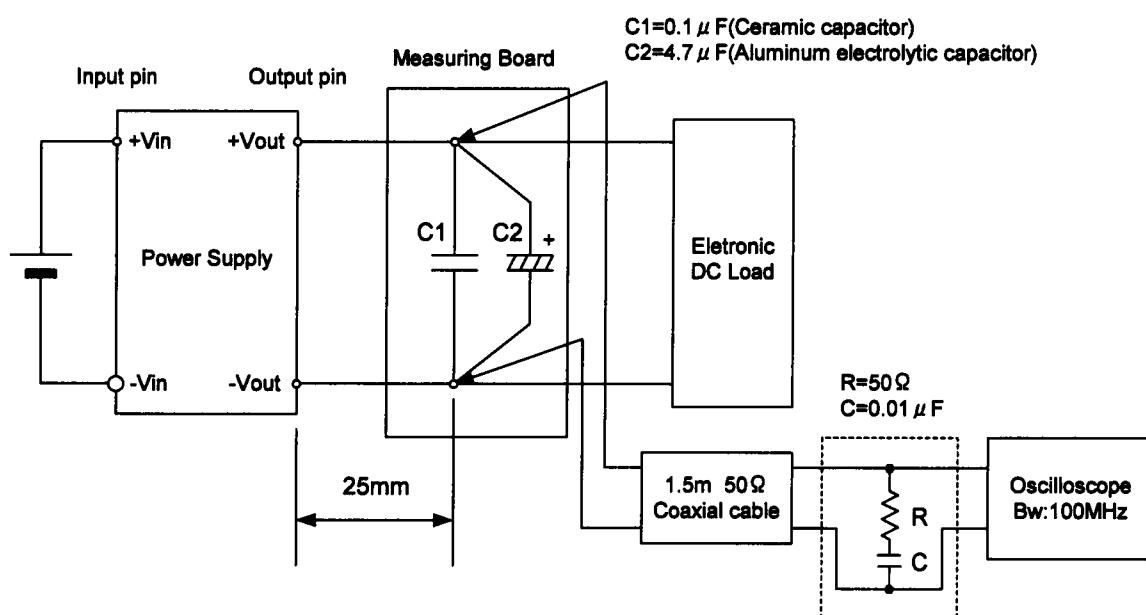


Figure B (Ripple and Ripple noise Characteristic)