

# TEST DATA OF SUTS3483R3

## Regulated DC Power Supply

Approved by : Kazunari Asano Kazunari Asano Design Manager

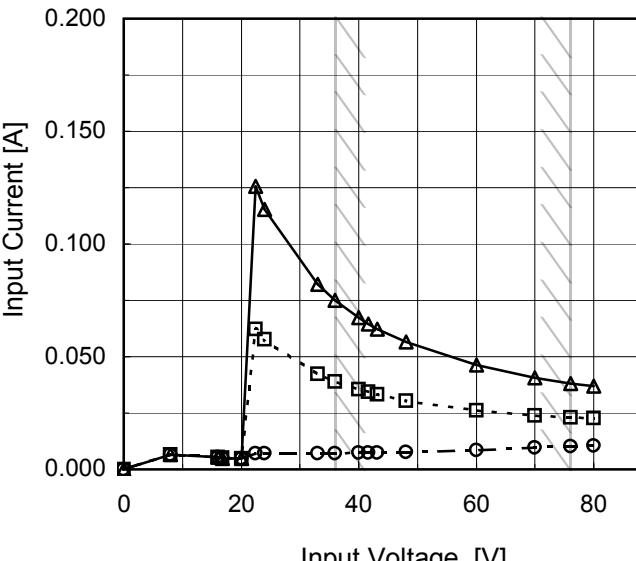
Prepared by : Sho Saito Sho Saito Design Engineer

COSEL CO.,LTD.

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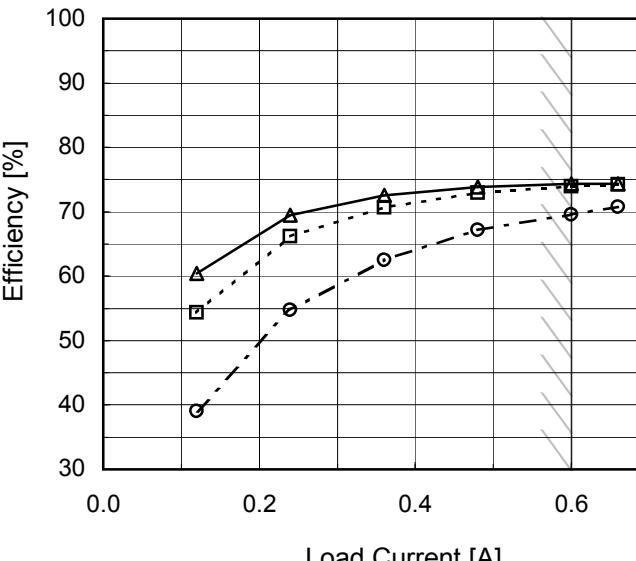
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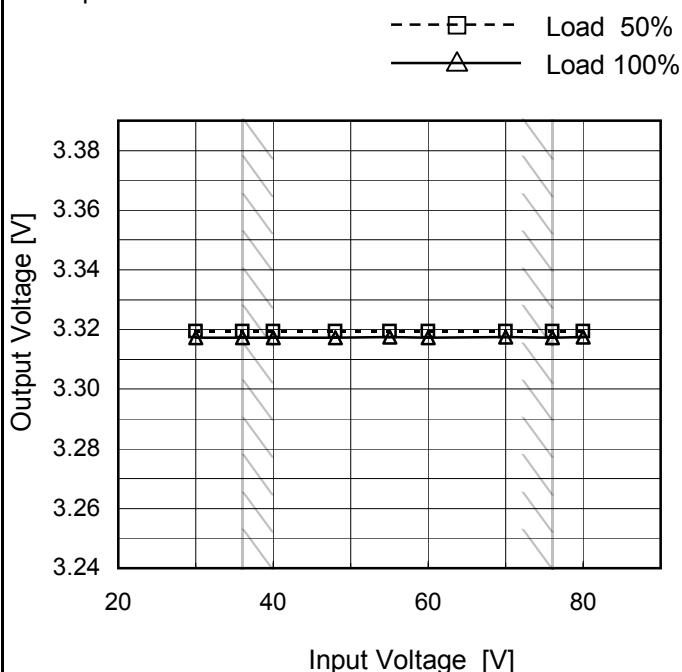
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Model	SUTS3483R3
Item	Line Regulation
Object	+3.3V0.6A

Temperature 25°C  
Testing Circuitry Figure A

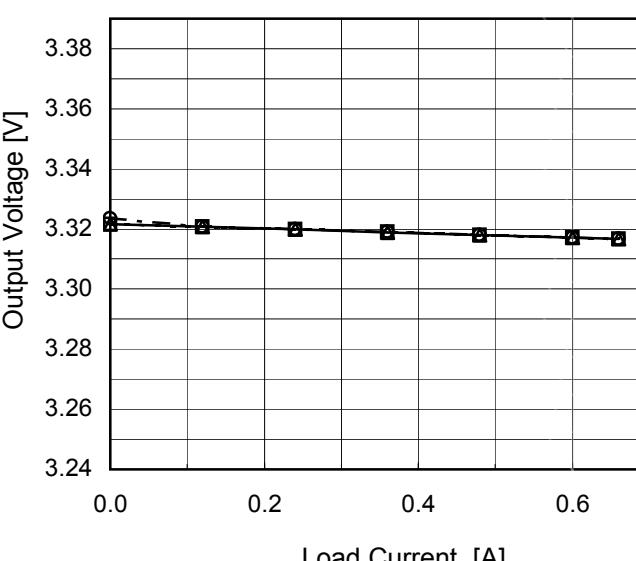
## 1. Graph



## 2. Values

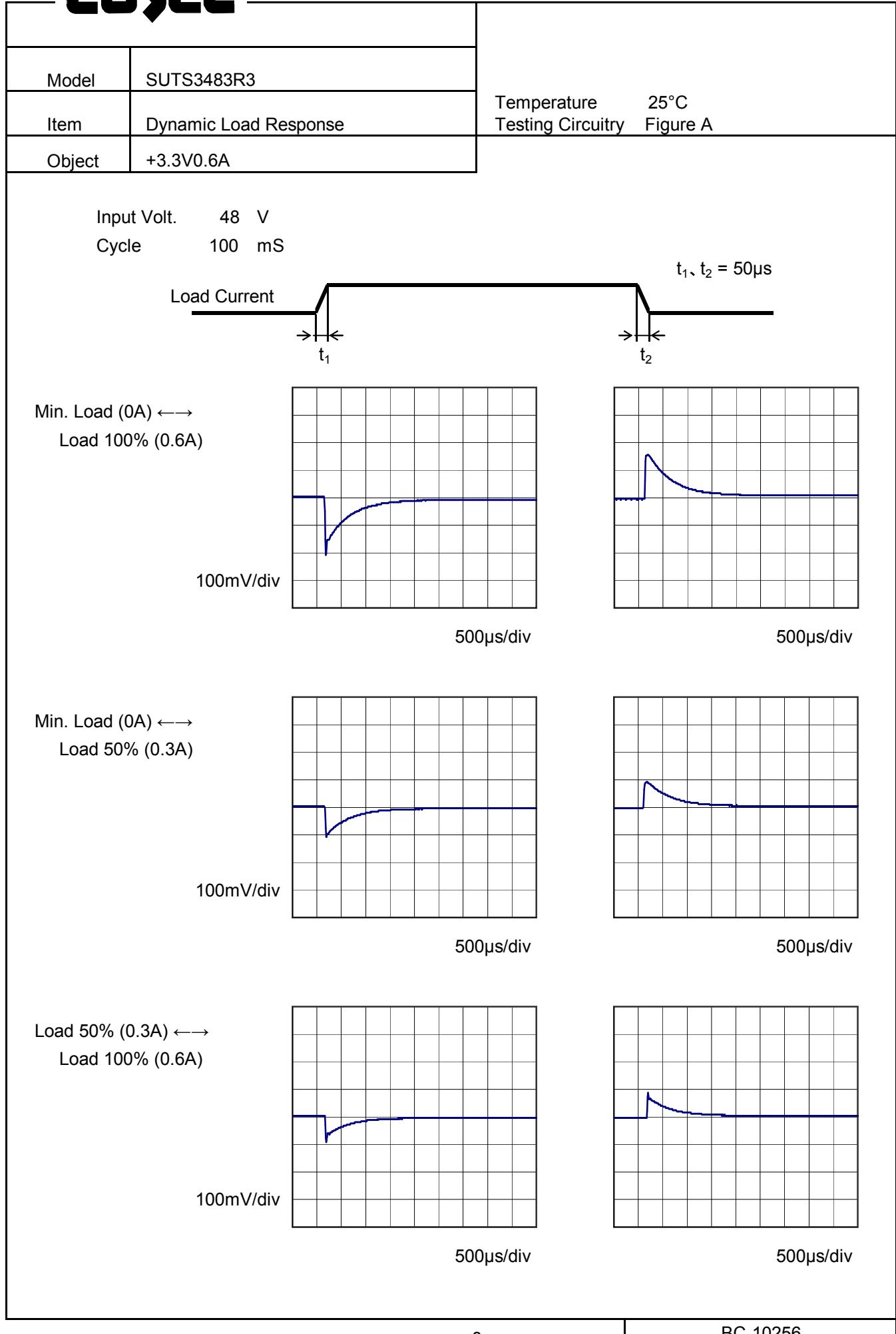
Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
30	3.319	3.317
36	3.319	3.317
40	3.319	3.317
48	3.319	3.317
55	3.319	3.317
60	3.319	3.317
70	3.319	3.317
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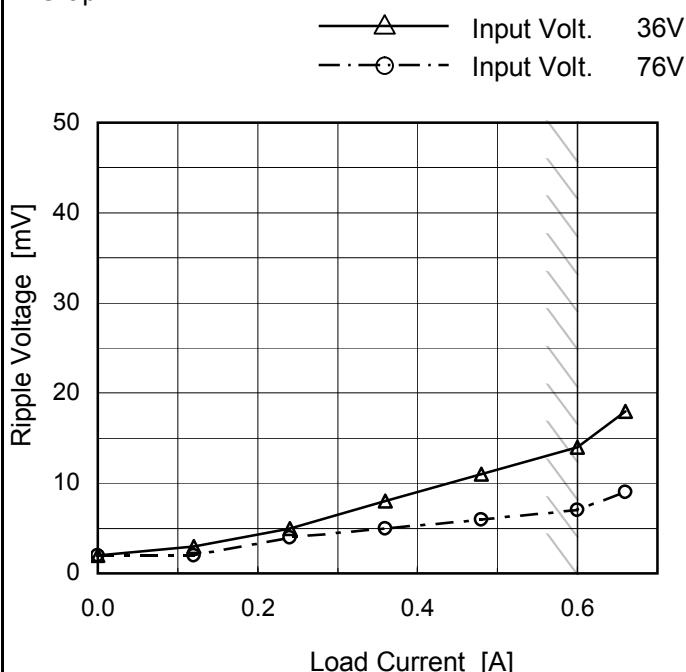
**COSEL**



Model	SUTS3483R3
Item	Ripple Voltage (by Load Current)
Object	+3.3V0.6A

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	2	2
0.12	3	2
0.24	5	4
0.36	8	5
0.48	11	6
0.60	14	7
0.66	18	9
--	-	-
--	-	-
--	-	-
--	-	-

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]

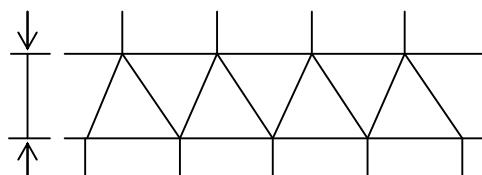
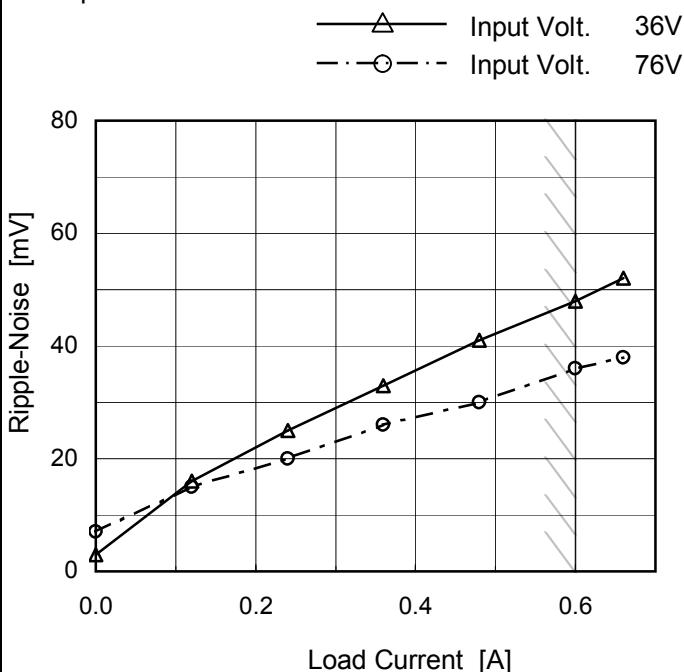


Fig.Complex Ripple Wave Form

Model	SUTS3483R3
Item	Ripple-Noise
Object	+3.3V0.6A

Temperature 25°C  
Testing Circuitry Figure B

## 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	3	7
0.12	16	15
0.24	25	20
0.36	33	26
0.48	41	30
0.60	48	36
0.66	52	38
--	-	-
--	-	-
--	-	-
--	-	-

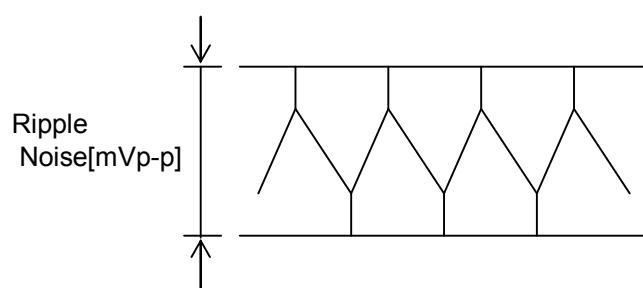
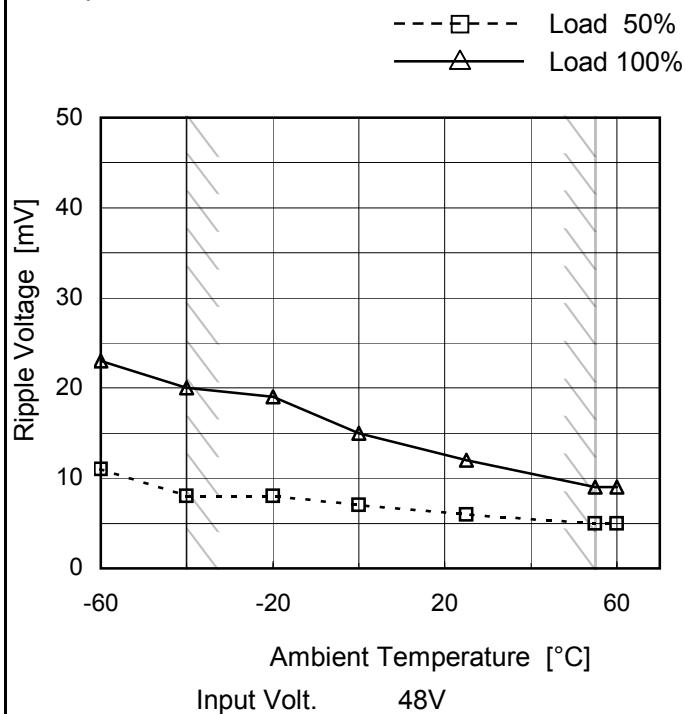


Fig.Complex Ripple Noise Wave Form

Model	SUTS3483R3
Item	Ripple Voltage (by Ambient Temp.)
Object	+3.3V0.6A

## 1. Graph



Measured by 100 MHz Oscilloscope.

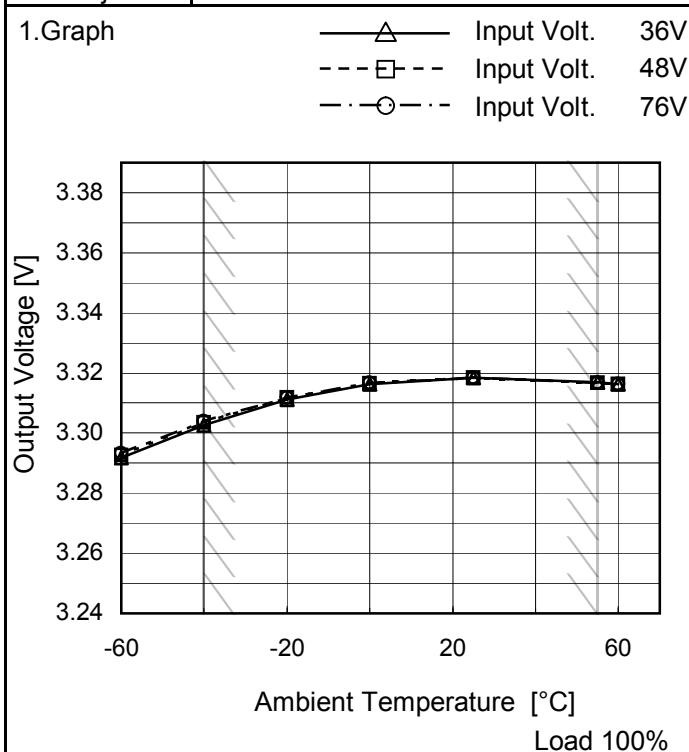
Note: Slanted line shows the range of the rated ambient temperature.

## Testing Circuitry Figure B

## 2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	11	23
-40	8	20
-20	8	19
0	7	15
25	6	12
55	5	9
60	5	9
--	-	-
--	-	-
--	-	-
--	-	-

Model	SUTS3483R3
Item	Ambient Temperature Drift
Object	+3.3V0.6A



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	3.292	3.293	3.293
-40	3.303	3.303	3.304
-20	3.311	3.312	3.312
0	3.316	3.317	3.317
25	3.318	3.319	3.319
55	3.317	3.317	3.317
60	3.316	3.316	3.316
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model	SUTS3483R3	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+3.3V0.6A	

### 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 - 0.6A

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

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

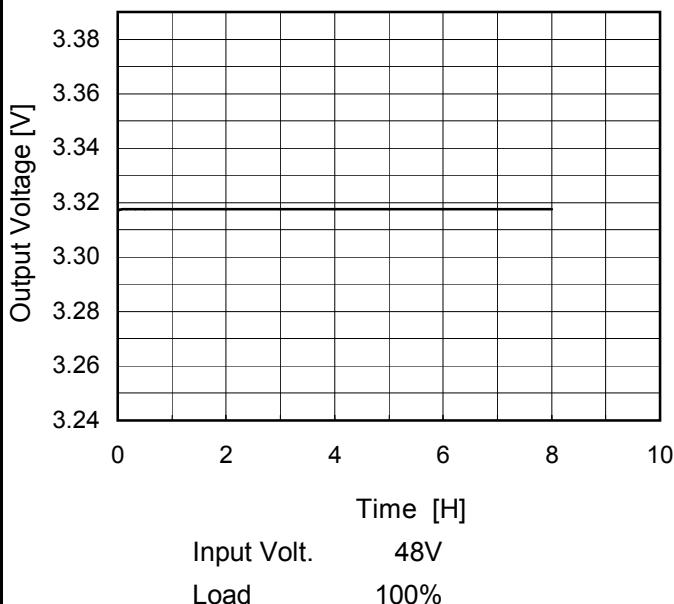
### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	76	0	3.325	±11	±0.3
Minimum Voltage	-40	36	0.6	3.303		

**COSEL**

Model	SUTS3483R3
Item	Time Lapse Drift
Object	+3.3V0.6A

1. Graph



Temperature 25°C  
Testing Circuitry Figure A

2. Values

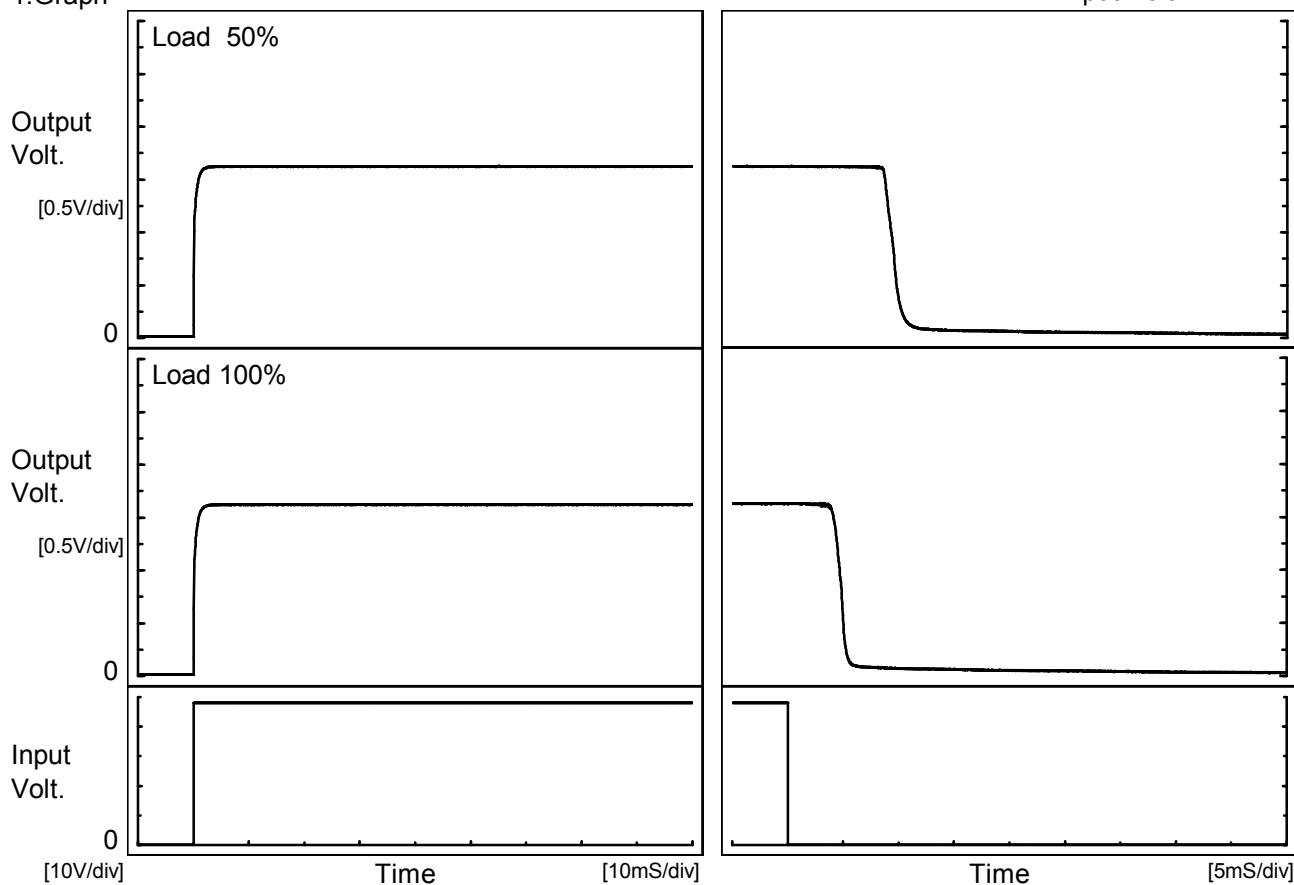
Time since start [H]	Output Voltage [V]
0.0	3.316
0.5	3.318
1.0	3.318
2.0	3.318
3.0	3.318
4.0	3.318
5.0	3.318
6.0	3.318
7.0	3.318
8.0	3.318

**COSEL**

Model	SUTS3483R3
Item	Rise and Fall Time
Object	+3.3V0.6A

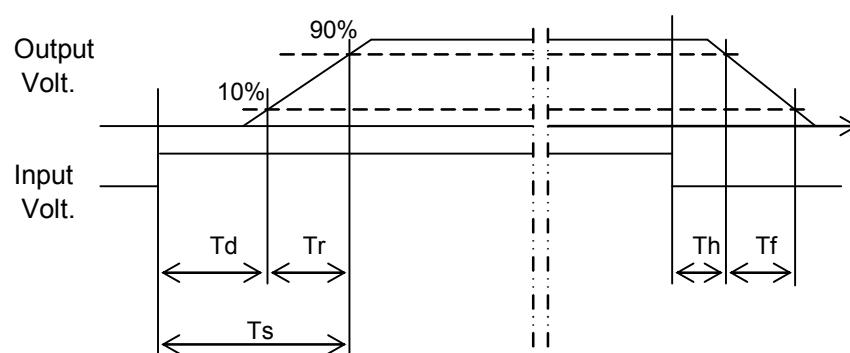
Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



## 2. Values

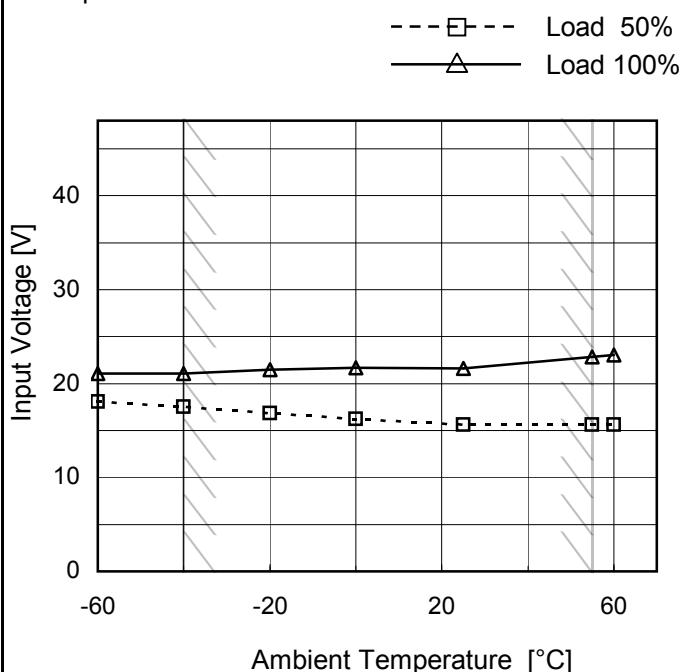
Load	Time	Td	Tr	Ts	Th	Tf	[mS]
50 %		0.1	0.8	0.9	8.7	1.8	
100 %		0.1	0.9	1.0	4.1	1.3	



Model	SUTS3483R3
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+3.3V0.6A

## Testing Circuitry Figure A

## 1.Graph



## 2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	18.1	21.1
-40	17.5	21.1
-20	16.9	21.5
0	16.3	21.7
25	15.7	21.7
55	15.7	22.9
60	15.7	23.1
--	-	-
--	-	-
--	-	-
--	-	-

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

Model	SUTS3483R3	Temperature Testing Circuitry 25°C Figure A																																																						
Item	Overcurrent Protection																																																							
Object	+3.3V0.6A																																																							
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>3.30</td><td>0.62</td><td>0.62</td><td>0.62</td></tr> <tr><td>3.14</td><td>0.93</td><td>1.00</td><td>0.96</td></tr> <tr><td>2.97</td><td>0.95</td><td>1.02</td><td>0.97</td></tr> <tr><td>2.64</td><td>0.99</td><td>1.05</td><td>1.00</td></tr> <tr><td>2.31</td><td>1.04</td><td>1.09</td><td>1.02</td></tr> <tr><td>1.98</td><td>1.08</td><td>1.11</td><td>1.03</td></tr> <tr><td>1.65</td><td>1.12</td><td>1.14</td><td>1.03</td></tr> <tr><td>1.32</td><td>1.15</td><td>1.16</td><td>1.03</td></tr> <tr><td>0.99</td><td>1.17</td><td>1.15</td><td>1.01</td></tr> <tr><td>0.66</td><td>1.15</td><td>1.11</td><td>0.96</td></tr> <tr><td>0.33</td><td>1.11</td><td>1.05</td><td>0.89</td></tr> <tr><td>0.00</td><td>1.02</td><td>0.97</td><td>0.88</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	3.30	0.62	0.62	0.62	3.14	0.93	1.00	0.96	2.97	0.95	1.02	0.97	2.64	0.99	1.05	1.00	2.31	1.04	1.09	1.02	1.98	1.08	1.11	1.03	1.65	1.12	1.14	1.03	1.32	1.15	1.16	1.03	0.99	1.17	1.15	1.01	0.66	1.15	1.11	0.96	0.33	1.11	1.05	0.89	0.00	1.02	0.97	0.88
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coSEL

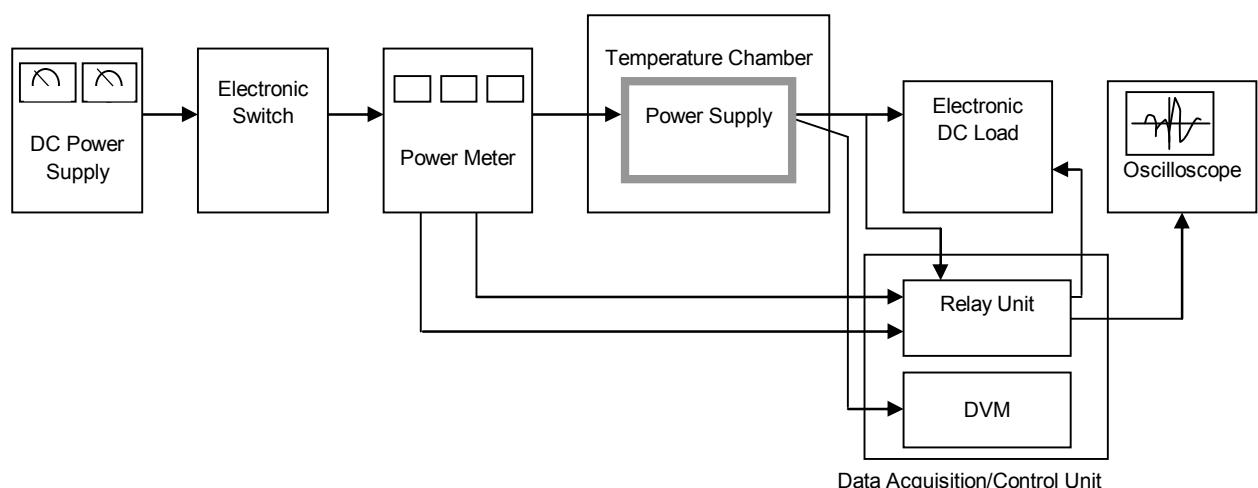


Figure A

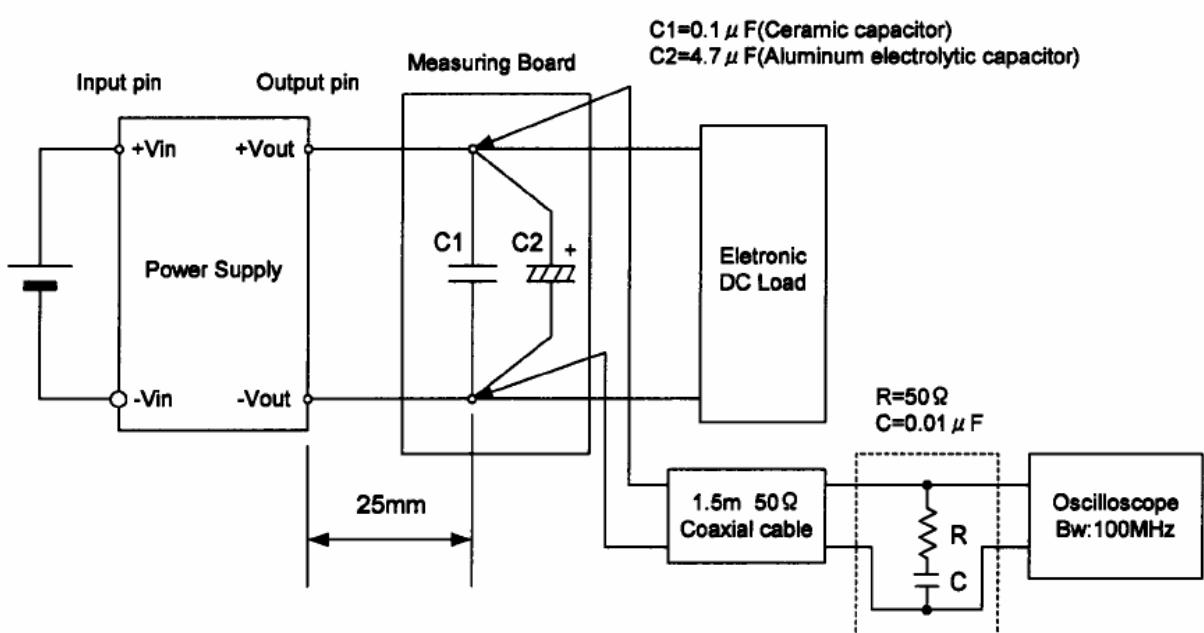


Figure B (Ripple and Ripple noise Characteristic)