



TEST DATA OF SUS101205 SUCS101205

Regulated DC Power Supply
Mar 24, 2005

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COSEL CO.,LTD.

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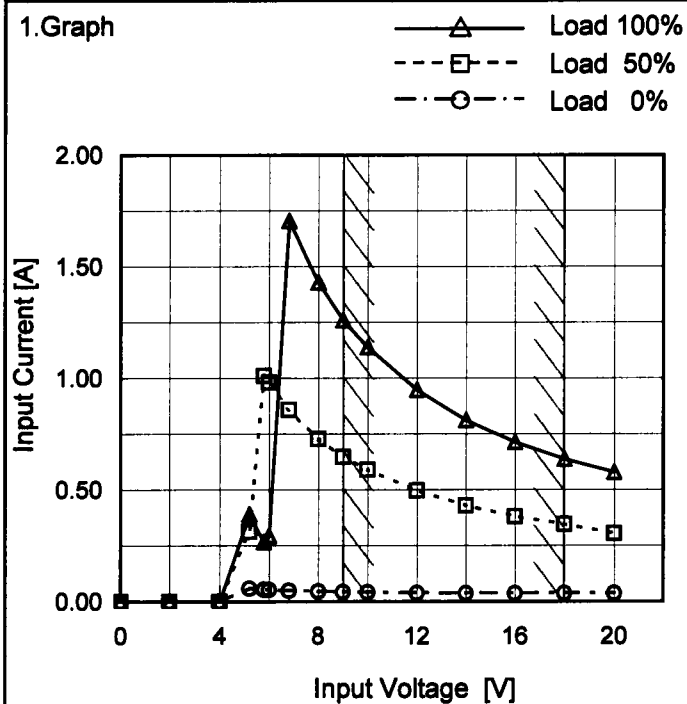
(Final Page 18)

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Model SUS101205/SUCS101205

Item Input Current (by Input Voltage)

Object
Temperature 25°C
Testing Circuitry Figure A

1. Graph


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

2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
2.0	0.000	0.000	0.000
4.0	0.000	0.000	0.000
5.2	0.060	0.314	0.391
5.8	0.054	1.011	0.268
6.0	0.053	0.981	0.294
6.8	0.049	0.859	1.705
8.0	0.046	0.728	1.429
9.0	0.043	0.648	1.259
10.0	0.042	0.591	1.139
12.0	0.040	0.497	0.948
14.0	0.038	0.430	0.812
16.0	0.037	0.381	0.713
18.0	0.038	0.346	0.638
20.0	0.038	0.305	0.579
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Model

SUS101205/SUCS101205

Item

Input Current (by Load Current)

Object

Temperature

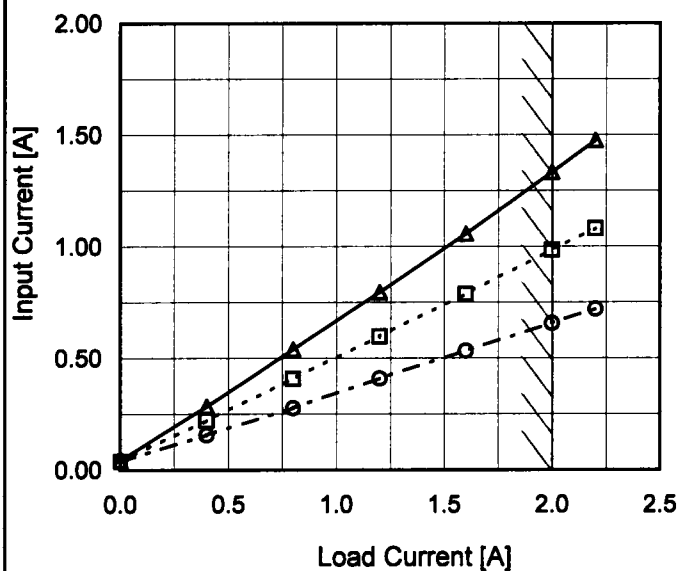
25°C

Testing Circuitry

Figure A

1. Graph

—△— Input Volt. 9V
 ---□--- Input Volt. 12V
 ---○--- Input Volt. 18V



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

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.0	0.044	0.040	0.037
0.4	0.285	0.221	0.157
0.8	0.541	0.408	0.278
1.2	0.796	0.597	0.410
1.6	1.058	0.788	0.533
2.0	1.333	0.984	0.657
2.2	1.475	1.080	0.720
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Model		SUS101205/SUCS101205		Temperature 25°C																																																						
Item		Input Power (by Load Current)		Testing Circuitry Figure A																																																						
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1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div>---□---</div><div>Input Volt.</div><div>12V</div></div><div><div>---○---</div><div>Input Volt.</div><div>18V</div></div></div> <div><div><div>Input Power [W]</div><div>20.0</div><div>15.0</div><div>10.0</div><div>5.0</div><div>0.0</div></div><div><div>0.0</div><div>0.5</div><div>1.0</div><div>1.5</div><div>2.0</div><div>2.5</div></div><div><div>Load Current [A]</div></div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		2.Values		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>0.0</td><td>0.39</td><td>0.47</td><td>0.68</td></tr><tr><td>0.4</td><td>2.53</td><td>2.63</td><td>2.81</td></tr><tr><td>0.8</td><td>4.79</td><td>4.84</td><td>4.97</td></tr><tr><td>1.2</td><td>7.03</td><td>7.07</td><td>7.33</td></tr><tr><td>1.6</td><td>9.30</td><td>9.31</td><td>9.51</td></tr><tr><td>2.0</td><td>11.66</td><td>11.60</td><td>11.72</td></tr><tr><td>2.2</td><td>12.88</td><td>12.73</td><td>12.84</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>		Load Current [A]	Input Power [W]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.0	0.39	0.47	0.68	0.4	2.53	2.63	2.81	0.8	4.79	4.84	4.97	1.2	7.03	7.07	7.33	1.6	9.30	9.31	9.51	2.0	11.66	11.60	11.72	2.2	12.88	12.73	12.84	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																									
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Model		SUS101205/SUCS101205		Temperature 25°C																																	
Item		Efficiency (by Input Voltage)		Testing Circuitry Figure A																																	
Object																																					
1.Graph				2.Values																																	
<div><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>---</div></div><div>Load 100%</div></div></div> <p>The graph plots Efficiency [%] on the y-axis (ranging from 40 to 90) against Input Voltage [V] on the x-axis (ranging from 6 to 22). 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 downward trend as input voltage increases. A vertical slanted line is drawn between approximately 9V and 18V, indicating the rated input voltage range.</p> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>8</td><td>85.5</td><td>85.3</td></tr><tr><td>9</td><td>85.1</td><td>86.1</td></tr><tr><td>10</td><td>84.9</td><td>86.5</td></tr><tr><td>12</td><td>83.9</td><td>86.6</td></tr><tr><td>15</td><td>82.5</td><td>86.4</td></tr><tr><td>18</td><td>81.9</td><td>85.7</td></tr><tr><td>20</td><td>81.7</td><td>84.9</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	8	85.5	85.3	9	85.1	86.1	10	84.9	86.5	12	83.9	86.6	15	82.5	86.4	18	81.9	85.7	20	81.7	84.9	--	-	-	--	-	-		
Input Voltage [V]	Efficiency [%]																																				
	Load 50%	Load 100%																																			
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Model

SUS101205/SUCS101205

Item

Efficiency (by Load Current)

Temperature

25°C

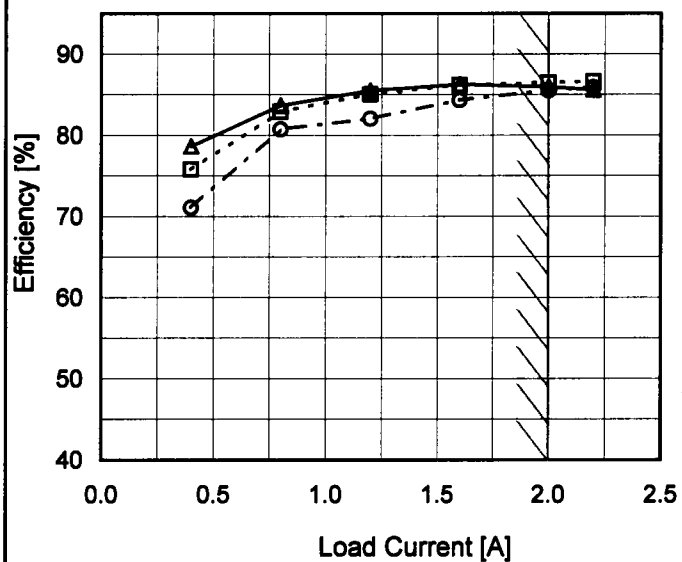
Testing Circuitry

Figure A

Object

1. Graph

—△— Input Volt. 9V
 ---□--- Input Volt. 12V
 - -○- - Input Volt. 18V



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

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.0	-	-	-
0.4	78.6	75.8	71.1
0.8	83.7	82.9	80.7
1.2	85.5	85.0	82.0
1.6	86.3	86.2	84.3
2.0	86.0	86.5	85.5
2.2	85.6	86.6	85.9
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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Model	SUS101205/SUCS101205																																
Item	Line Regulation	Temperature	25°C																														
Object	+5V2A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] (Load 50%)</th><th>Output Voltage [V] (Load 100%)</th></tr></thead><tbody><tr><td>8</td><td>5.019</td><td>5.011</td></tr><tr><td>9</td><td>5.019</td><td>5.011</td></tr><tr><td>10</td><td>5.020</td><td>5.012</td></tr><tr><td>12</td><td>5.020</td><td>5.013</td></tr><tr><td>15</td><td>5.021</td><td>5.013</td></tr><tr><td>18</td><td>5.021</td><td>5.014</td></tr><tr><td>20</td><td>5.021</td><td>5.015</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Output Voltage [V] (Load 50%)	Output Voltage [V] (Load 100%)	8	5.019	5.011	9	5.019	5.011	10	5.020	5.012	12	5.020	5.013	15	5.021	5.013	18	5.021	5.014	20	5.021	5.015	--	-	-	--	-	-		
Input Voltage [V]	Output Voltage [V] (Load 50%)	Output Voltage [V] (Load 100%)																															
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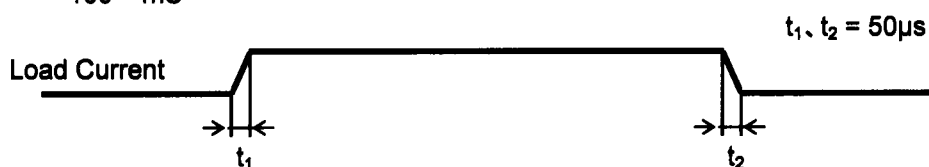
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Item	Load Regulation	Temperature	25°C																																																			
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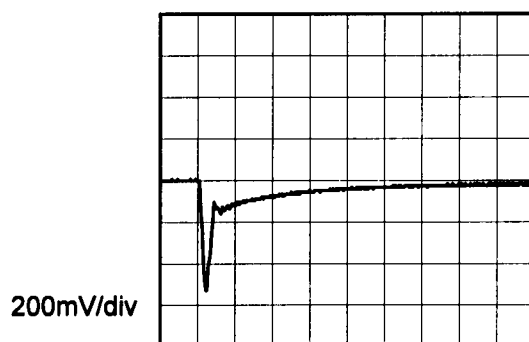
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Model	SUS101205/SUCS101205	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+5V2A		

Input Volt. 12 V
Cycle 100 mS



Min. Load (0A) \longleftrightarrow
Load 100% (2A)

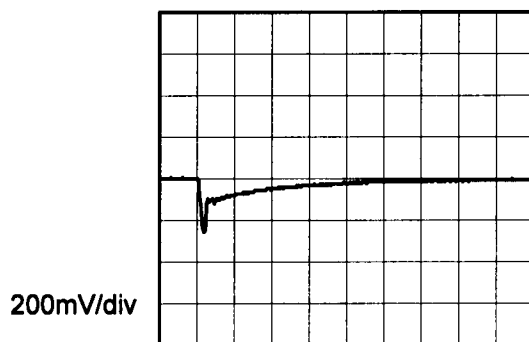


200µs/div

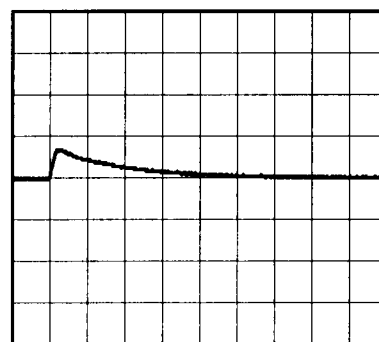


200µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (1A)

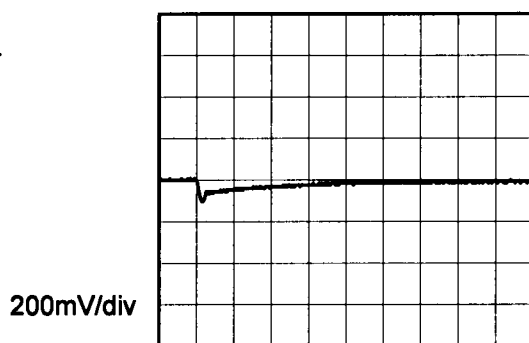


200µs/div

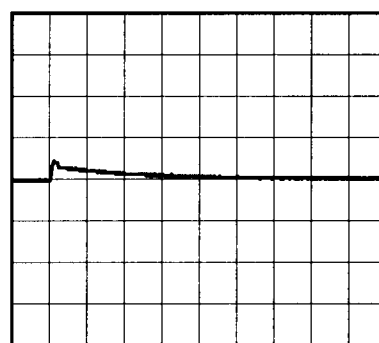


200µs/div

Load 50% (1A) \longleftrightarrow
Load 100% (2A)



200µs/div



200µs/div

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Model	SUS101205/SUCS101205																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+5V2A	Testing Circuitry	Figure B																																						
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 9V</div><div>- - -○- - - Input Volt. 18V</div></div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 9 [V]</th><th>Input Volt. 18 [V]</th></tr><tr><td>0.0</td><td>3</td><td>10</td></tr><tr><td>0.4</td><td>7</td><td>8</td></tr><tr><td>0.8</td><td>10</td><td>11</td></tr><tr><td>1.2</td><td>15</td><td>13</td></tr><tr><td>1.6</td><td>19</td><td>15</td></tr><tr><td>2.0</td><td>24</td><td>16</td></tr><tr><td>2.2</td><td>26</td><td>18</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></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 9 [V]	Input Volt. 18 [V]	0.0	3	10	0.4	7	8	0.8	10	11	1.2	15	13	1.6	19	15	2.0	24	16	2.2	26	18	—	-	-	—	-	-	—	-	-	—	-	-
Load Current [A]	Ripple Voltage [mV]																																								
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<p>Measured by 100 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <div><p>Ripple [mVp-p]</p><p>Fig.Complex Ripple Wave Form</p></div>																																									

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BC-3799

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Model		SUS101205/SUCS101205																																							
Item		Ripple-Noise																																							
Object		+5V2A																																							
1.Graph		2.Values																																							
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Load Current [A]	Ripple-Noise [mV]																																								
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<div><div><div>Ripple Noise[mVp-p]</div></div></div>																																									
Fig.Complex Ripple Noise Wave Form																																									

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Model

SUS101205/SUCS101205

Item

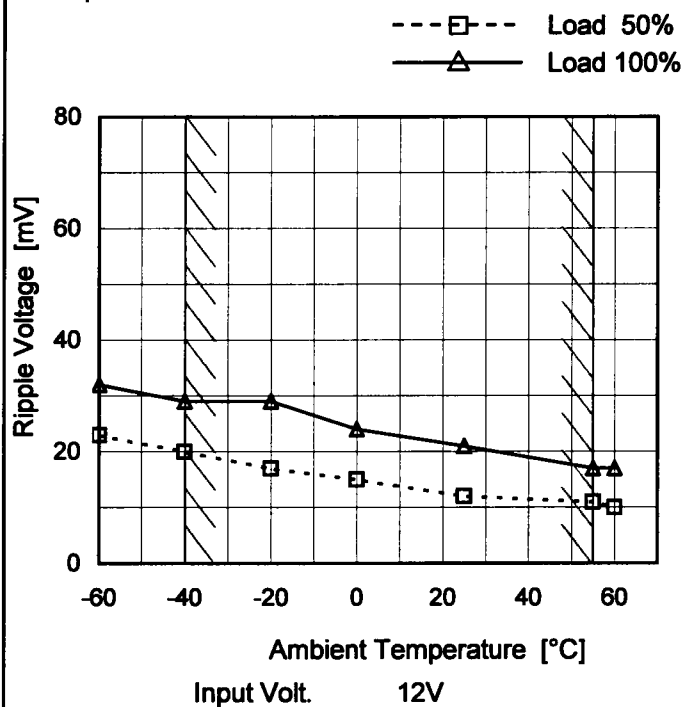
Ripple Voltage (by Ambient Temp.)

Object

+5V2A

Testing Circuitry Figure B

1. Graph



Measured by 100 MHz Oscilloscope.

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

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	23	32
-40	20	29
-20	17	29
0	15	24
25	12	21
55	11	17
60	10	17
—	—	—
—	—	—
—	—	—
—	—	—

Model		SUS101205/SUCS101205																																																				
Item		Ambient Temperature Drift																																																				
Object		+5V2A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div>---□---</div><div>Input Volt.</div><div>12V</div></div><div><div>---○---</div><div>Input Volt.</div><div>18V</div></div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>-60</td><td>5.008</td><td>5.010</td><td>5.011</td></tr><tr><td>-40</td><td>5.013</td><td>5.014</td><td>5.016</td></tr><tr><td>-20</td><td>5.015</td><td>5.017</td><td>5.018</td></tr><tr><td>0</td><td>5.015</td><td>5.016</td><td>5.018</td></tr><tr><td>25</td><td>5.011</td><td>5.012</td><td>5.014</td></tr><tr><td>55</td><td>5.004</td><td>5.005</td><td>5.006</td></tr><tr><td>60</td><td>5.002</td><td>5.003</td><td>5.004</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>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	-60	5.008	5.010	5.011	-40	5.013	5.014	5.016	-20	5.015	5.017	5.018	0	5.015	5.016	5.018	25	5.011	5.012	5.014	55	5.004	5.005	5.006	60	5.002	5.003	5.004	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated ambient temperature.																																																						

- 12 -

BC-3799



		Testing Circuitry Figure A
Model	SUS101205/SUCS101205	
Item	Output Voltage Accuracy	
Object	+5V2A	

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 : 9 - 18V

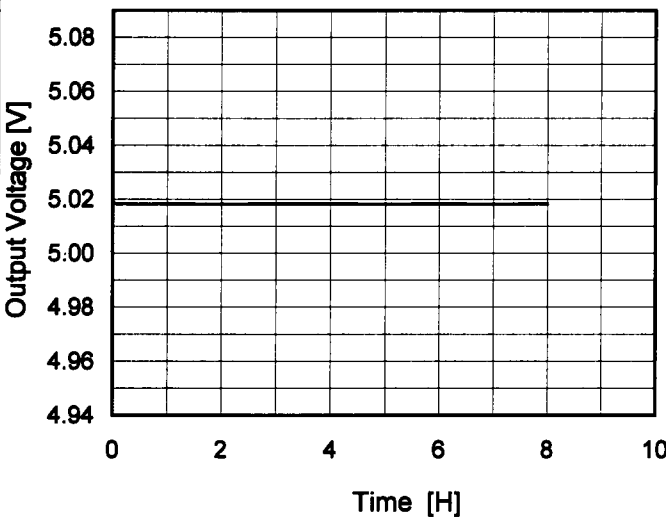
Load Current : 0 - 2A

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

* 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	9	0	5.027	±12	±0.2
Minimum Voltage	55	9	2	5.004		

Model	SUS101205/SUCS101205																								
Item	Time Lapse Drift		Temperature 25°C																						
Object	+5V2A		Testing Circuitry Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 12V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.020</td></tr><tr><td>0.5</td><td>5.018</td></tr><tr><td>1.0</td><td>5.018</td></tr><tr><td>2.0</td><td>5.018</td></tr><tr><td>3.0</td><td>5.018</td></tr><tr><td>4.0</td><td>5.018</td></tr><tr><td>5.0</td><td>5.018</td></tr><tr><td>6.0</td><td>5.018</td></tr><tr><td>7.0</td><td>5.018</td></tr><tr><td>8.0</td><td>5.018</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.020	0.5	5.018	1.0	5.018	2.0	5.018	3.0	5.018	4.0	5.018	5.0	5.018	6.0	5.018	7.0	5.018	8.0	5.018
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6.0	5.018																								
7.0	5.018																								
8.0	5.018																								

COSEL

Model

SUS101205/SUCS101205

Item

Rise and Fall Time

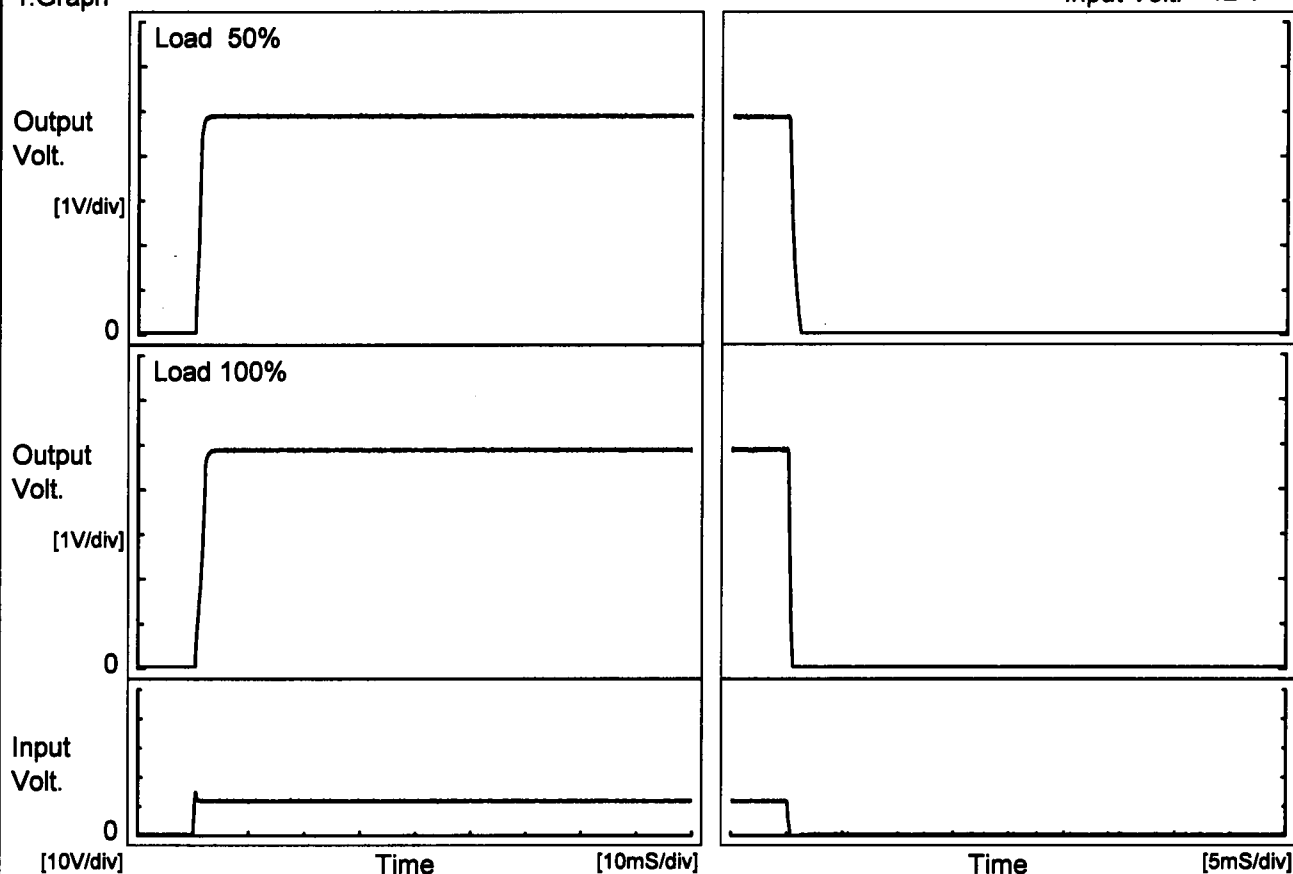
Temperature
Testing Circuitry25°C
Figure A

Object

+5V2A

1. Graph

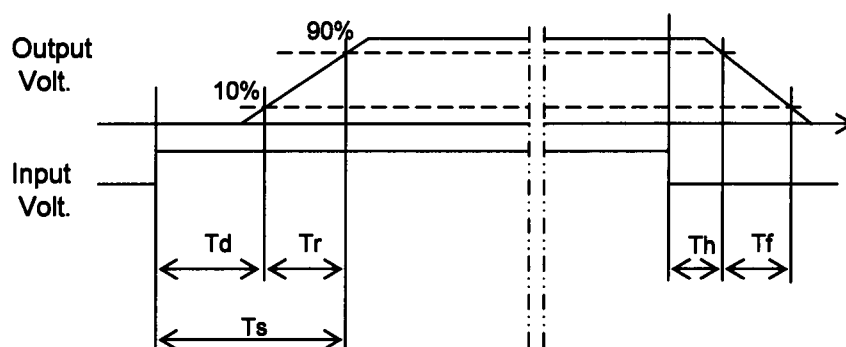
Input Volt. 12 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.5	1.2	1.7	0.2	0.8
100 %	0.5	1.8	2.3	0.2	0.3



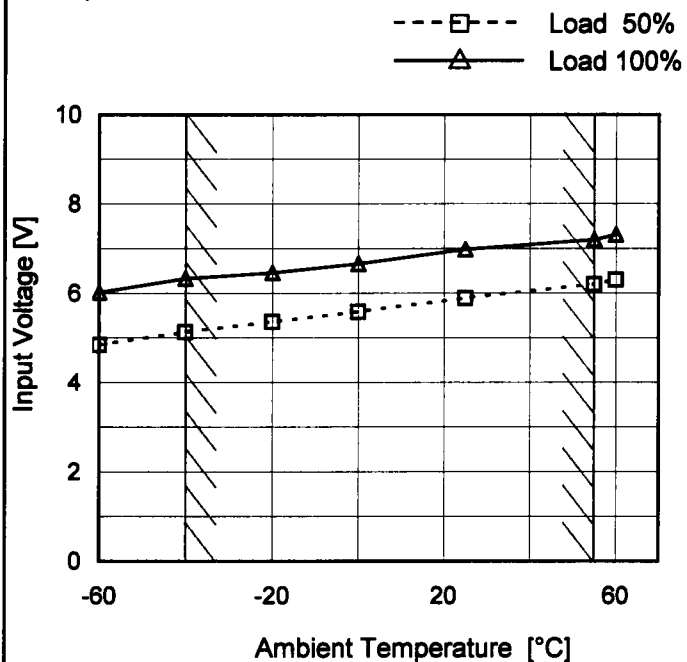
Model SUS101205/SUCS101205

Item Minimum Input Voltage
for Regulated Output Voltage

Object +5V2A

Testing Circuitry Figure A

1. Graph



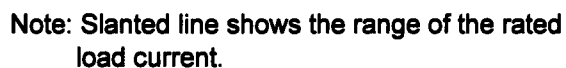
Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	4.9	6.1
-40	5.2	6.4
-20	5.4	6.5
0	5.6	6.7
25	5.9	7.0
55	6.2	7.2
60	6.3	7.4
—	—	—
—	—	—
—	—	—
—	—	—

Temperature	25°C
Testing Circuitry	Figure A

_____	Input Volt.	9V
_____	Input Volt.	12V
_____	Input Volt.	18V



Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
5.00	2.38	2.41	2.99
4.75	2.67	2.91	3.10
4.50	2.73	2.95	3.12
4.00	2.72	2.92	3.06
3.50	2.71	2.89	2.99
3.00	2.70	2.85	2.90
2.50	2.68	2.81	2.83
2.00	2.68	2.78	2.74
1.50	2.70	2.75	2.63
1.00	2.76	2.74	2.50
0.50	2.78	2.69	2.48
0.00	2.96	3.26	2.89

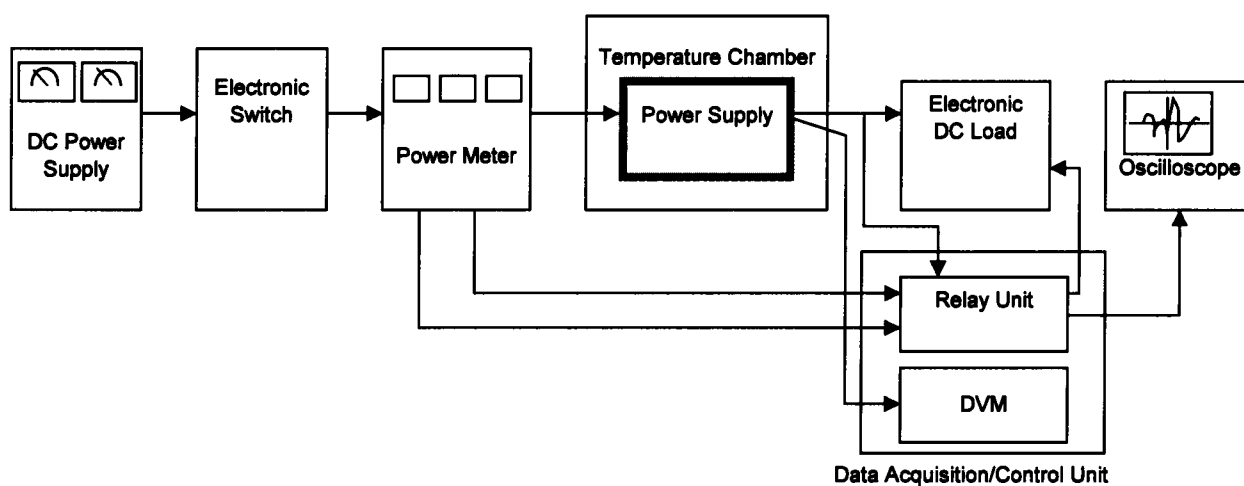


Figure A

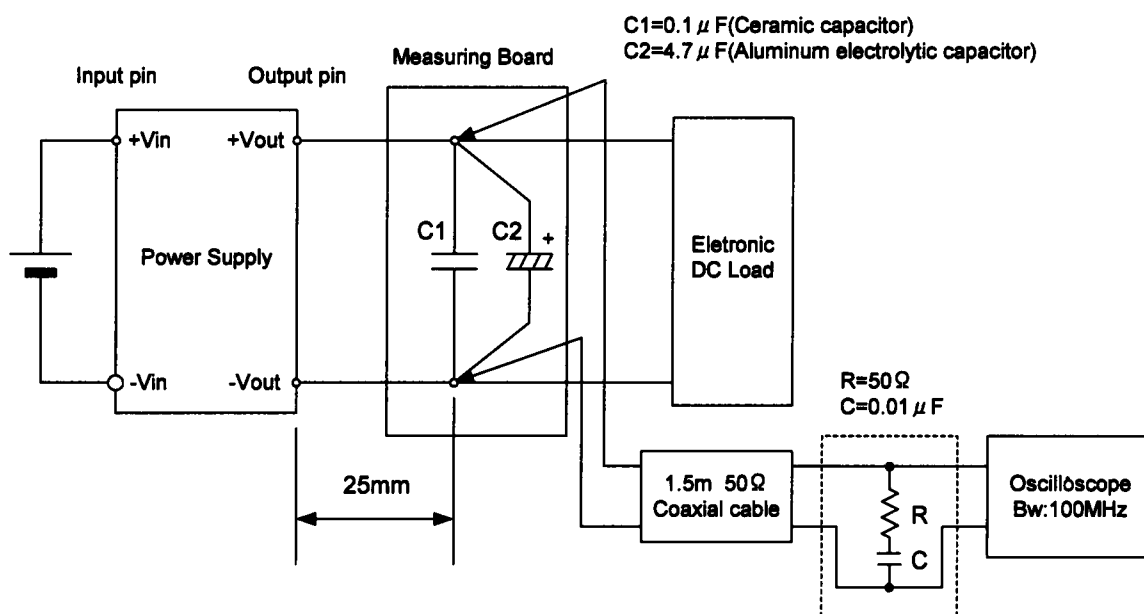


Figure B (Ripple and Ripple noise Characteristic)