

TEST DATA OF MGS301205

Regulated DC Power Supply
November 26, 2010

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Design Engineer

COSEL CO.,LTD.

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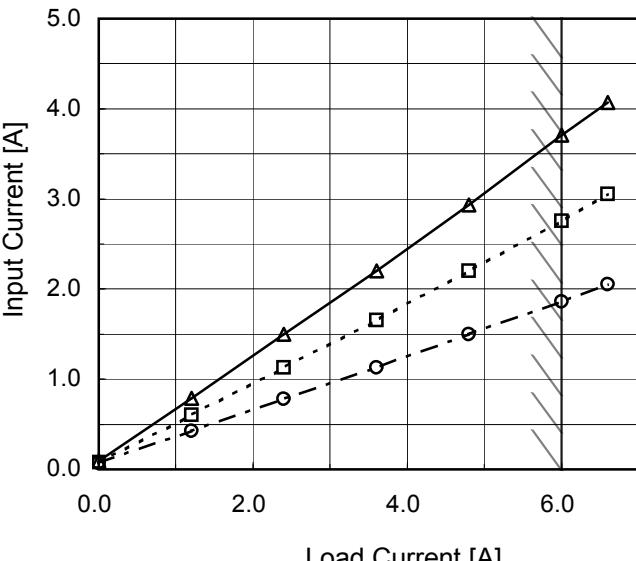
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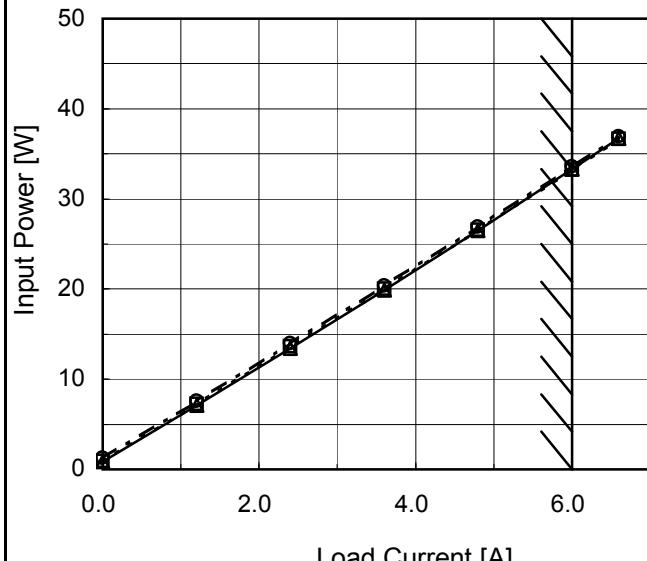
Model	MGS301205	Temperature Testing Circuitry 25°C Figure A																															
Item	Input Current (by Input Voltage)																																
Object	_____	2.Values																															
1.Graph	<p style="text-align: center;"> —△— Load 100% ---□--- Load 50% ---○--- Load 0% </p> <table border="1"> <caption>Data points estimated from Graph</caption> <thead> <tr> <th>Input Voltage [V]</th> <th>Load 0% [A]</th> <th>Load 50% [A]</th> <th>Load 100% [A]</th> </tr> </thead> <tbody> <tr><td>8.0</td><td>0.000</td><td>0.000</td><td>4.000</td></tr> <tr><td>10.0</td><td>0.002</td><td>0.003</td><td>3.300</td></tr> <tr><td>12.0</td><td>0.002</td><td>0.004</td><td>2.700</td></tr> <tr><td>14.0</td><td>0.002</td><td>0.005</td><td>2.300</td></tr> <tr><td>16.0</td><td>0.002</td><td>0.006</td><td>2.000</td></tr> <tr><td>18.0</td><td>0.002</td><td>0.007</td><td>1.800</td></tr> <tr><td>20.0</td><td>0.002</td><td>0.008</td><td>1.600</td></tr> </tbody> </table>	Input Voltage [V]	Load 0% [A]	Load 50% [A]	Load 100% [A]	8.0	0.000	0.000	4.000	10.0	0.002	0.003	3.300	12.0	0.002	0.004	2.700	14.0	0.002	0.005	2.300	16.0	0.002	0.006	2.000	18.0	0.002	0.007	1.800	20.0	0.002	0.008	1.600
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Note: Slanted line shows the range of the rated input voltage.

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	0.002	0.001	0.001
6.0	0.002	0.002	0.001
7.0	0.002	0.002	0.002
8.0	0.002	0.002	0.002
8.3	0.104	2.024	4.029
8.5	0.099	1.964	3.969
9.0	0.090	1.865	3.745
10.0	0.085	1.673	3.343
12.0	0.080	1.396	2.782
14.0	0.077	1.212	2.393
16.0	0.074	1.066	2.093
18.0	0.072	0.956	1.862
20.0	0.069	0.867	1.690
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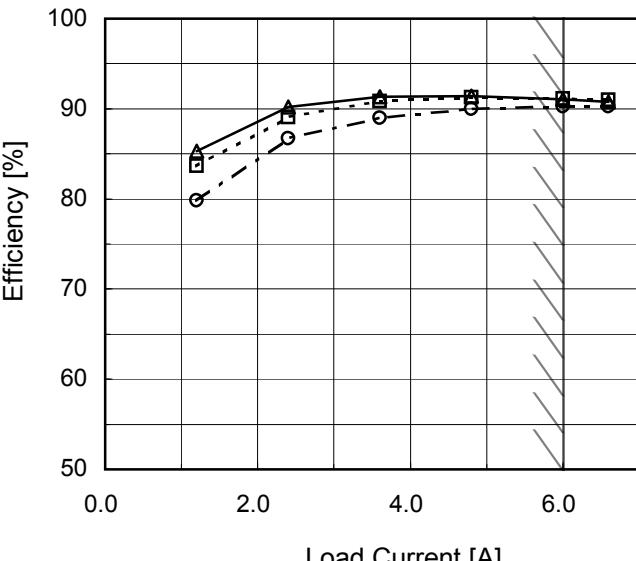
Model	MGS301205			
Item	Input Current (by Load Current)	Temperature Testing Circuitry	25°C Figure A	
Object				
1.Graph	<p>—△— Input Volt. 9V - - -□- - Input Volt. 12V - - ○ - - Input Volt. 18V</p> 			
2.Values	Load Current [A]	Input Current [A]		
		Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.0	0.094	0.079	0.069	
1.2	0.791	0.603	0.423	
2.4	1.500	1.130	0.779	
3.6	2.200	1.658	1.131	
4.8	2.930	2.205	1.499	
6.0	3.707	2.757	1.864	
6.6	4.073	3.052	2.054	
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--	-	-	-	
--	-	-	-	
--	-	-	-	

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

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1.Graph	<p>—△— Input Volt. 9V - - -□- - Input Volt. 12V - - ○ - - Input Volt. 18V</p>  <p>The graph plots Input Power [W] on the Y-axis (0 to 50) against Load Current [A] on the X-axis (0.0 to 6.0). Three curves are shown for input voltages of 9V, 12V, and 18V. The 9V curve starts at (0,0) and ends at approximately (6.0, 36.74). The 12V curve starts at (0,0) and ends at approximately (6.0, 33.29). The 18V curve starts at (0,0) and ends at approximately (6.0, 30.0). A slanted line is drawn through the origin, representing the rated load current range.</p>																																																					
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. 9[V]</th> <th>Input Volt. 12[V]</th> <th>Input Volt. 18[V]</th> </tr> </thead> <tbody> <tr> <td>0.0</td><td>0.84</td><td>0.95</td><td>1.25</td></tr> <tr> <td>1.2</td><td>7.11</td><td>7.26</td><td>7.60</td></tr> <tr> <td>2.4</td><td>13.46</td><td>13.63</td><td>14.01</td></tr> <tr> <td>3.6</td><td>19.89</td><td>20.00</td><td>20.40</td></tr> <tr> <td>4.8</td><td>26.52</td><td>26.55</td><td>26.92</td></tr> <tr> <td>6.0</td><td>33.29</td><td>33.25</td><td>33.56</td></tr> <tr> <td>6.6</td><td>36.74</td><td>36.65</td><td>36.94</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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.0	0.84	0.95	1.25	1.2	7.11	7.26	7.60	2.4	13.46	13.63	14.01	3.6	19.89	20.00	20.40	4.8	26.52	26.55	26.92	6.0	33.29	33.25	33.56	6.6	36.74	36.65	36.94	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model	MGS301205	Temperature	25°C																																
Item	Efficiency (by Input Voltage)	Testing Circuitry	Figure A																																
Object	—																																		
1. Graph			2. Values																																
<p>The graph plots Efficiency [%] on the y-axis (50 to 100) against Input Voltage [V] on the x-axis (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 high efficiency (around 90%) across the tested input voltage range. A slanted line on the graph indicates the rated input voltage range.</p>			<table border="1"> <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>8.5</td> <td>90.3</td> <td>90.4</td> </tr> <tr> <td>9.0</td> <td>90.9</td> <td>90.9</td> </tr> <tr> <td>10.0</td> <td>90.9</td> <td>91.1</td> </tr> <tr> <td>12.0</td> <td>90.2</td> <td>91.1</td> </tr> <tr> <td>15.0</td> <td>89.2</td> <td>90.7</td> </tr> <tr> <td>18.0</td> <td>88.1</td> <td>90.2</td> </tr> <tr> <td>20.0</td> <td>87.5</td> <td>89.9</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%	8.5	90.3	90.4	9.0	90.9	90.9	10.0	90.9	91.1	12.0	90.2	91.1	15.0	89.2	90.7	18.0	88.1	90.2	20.0	87.5	89.9	--	-	-	--	-	-
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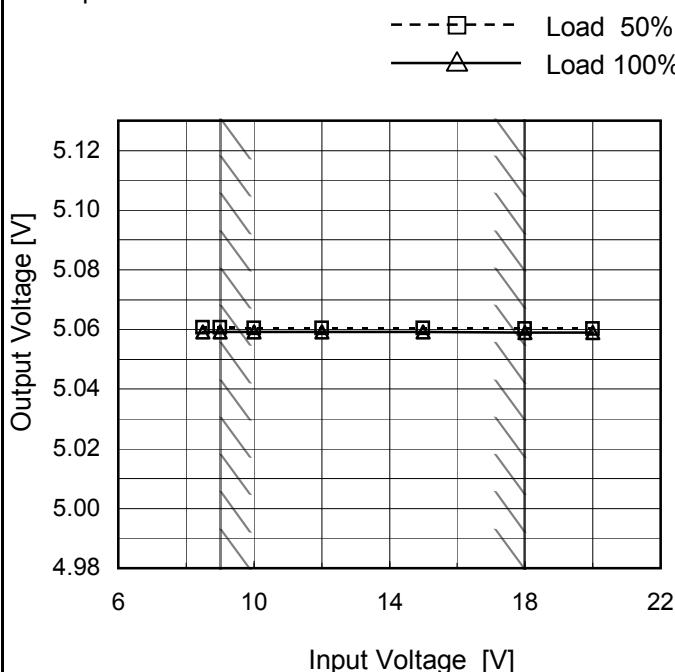
Note: Slanted line shows the range of the rated input voltage.

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<p>—△— Input Volt. 9V - - -□- - Input Volt. 12V - - ○ - - Input Volt. 18V</p>  <p>The graph plots Efficiency [%] on the y-axis (50 to 100) against Load Current [A] on the x-axis (0.0 to 6.0). Three data series are shown: 9V (solid line with triangles), 12V (dashed line with squares), and 18V (dash-dot line with circles). All curves show efficiency increasing with load current. A slanted line on the right side of the graph indicates the rated load current range.</p>																																																				
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<p>Note: Slanted line shows the range of the rated load current.</p>																																																				

Model	MGS301205
Item	Line Regulation
Object	+5V6A

Temperature 25°C
Testing Circuitry Figure A

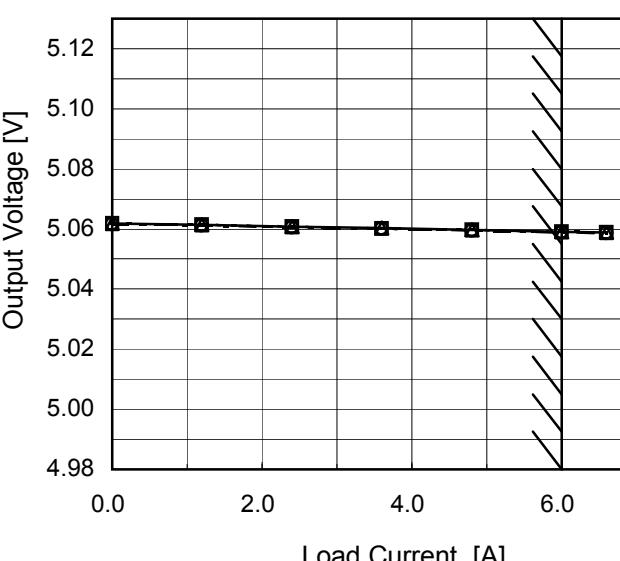
1. Graph

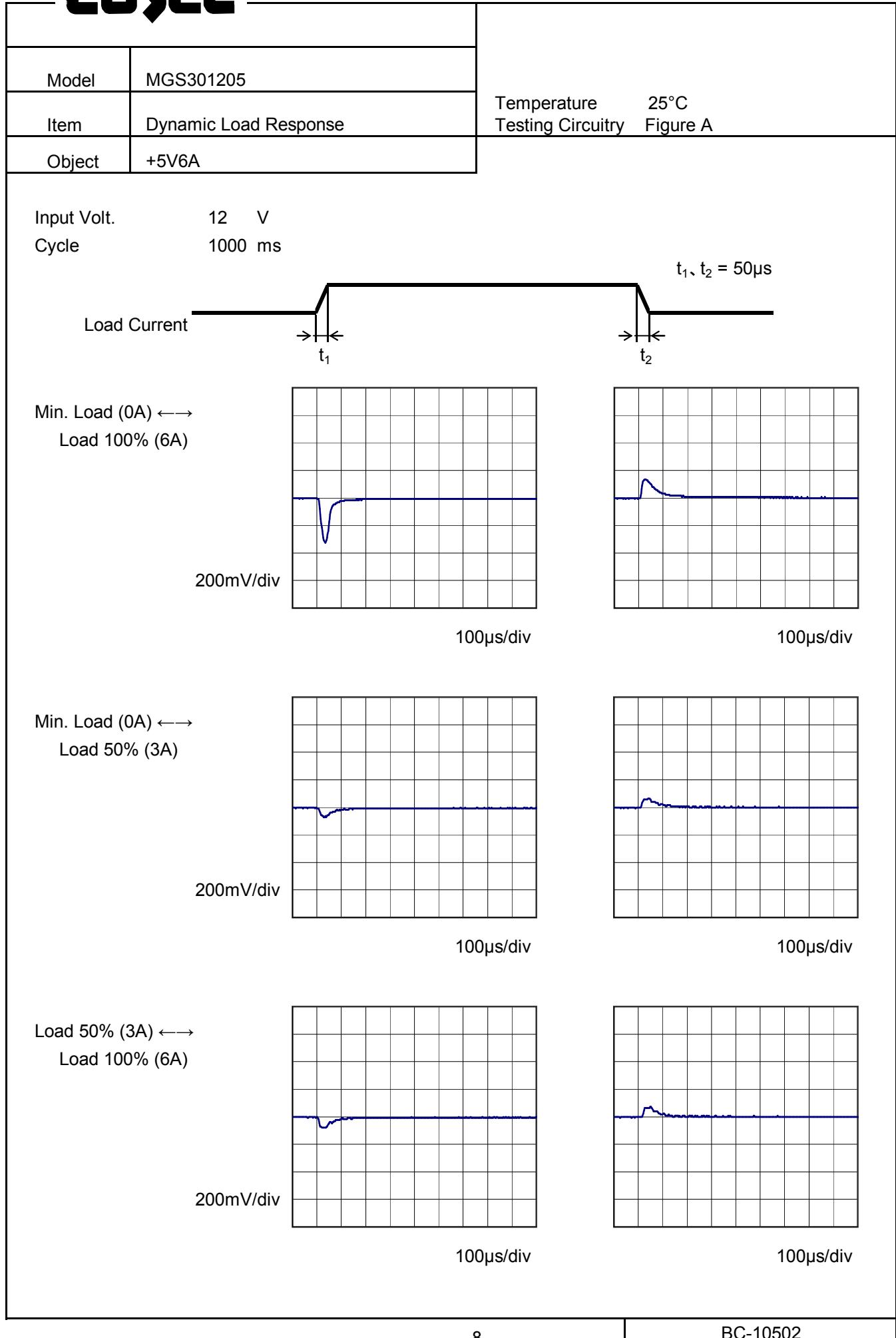


2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8.5	5.061	5.059
9.0	5.061	5.059
10.0	5.061	5.059
12.0	5.061	5.059
15.0	5.060	5.059
18.0	5.060	5.059
20.0	5.060	5.059
--	-	-
--	-	-

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

Model	MGS301205	Temperature Testing Circuitry 25°C Figure A																																																			
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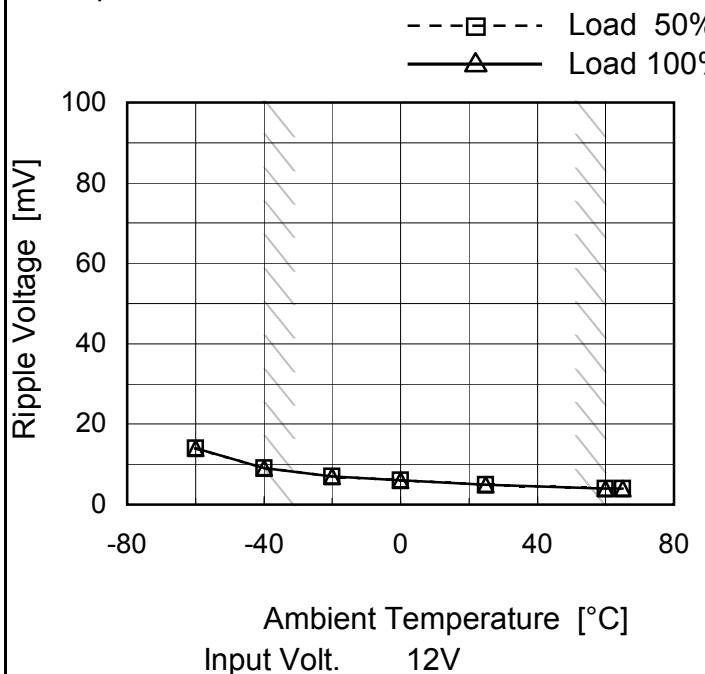
Model	MGS301205	Temperature Testing Circuitry 25°C Figure B																																						
Item	Ripple Voltage (by Load Current)																																							
Object	+5V6A																																							
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<p>Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>																																								
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Object	+5V6A	2. Values																																									
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			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple-Noise [mV]</th> </tr> <tr> <th>Input Volt. 9 [V]</th> <th>Input Volt. 18 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>10</td><td>10</td></tr> <tr><td>1.2</td><td>10</td><td>10</td></tr> <tr><td>2.4</td><td>10</td><td>10</td></tr> <tr><td>3.6</td><td>10</td><td>10</td></tr> <tr><td>4.8</td><td>10</td><td>10</td></tr> <tr><td>6.0</td><td>10</td><td>10</td></tr> <tr><td>6.6</td><td>10</td><td>10</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-Noise [mV]		Input Volt. 9 [V]	Input Volt. 18 [V]	0.0	10	10	1.2	10	10	2.4	10	10	3.6	10	10	4.8	10	10	6.0	10	10	6.6	10	10	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																										
	Input Volt. 9 [V]	Input Volt. 18 [V]																																									
0.0	10	10																																									
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<p>Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>																																											
<p>Fig.Complex Ripple Noise Wave Form</p>																																											

COSEL

Model	MGS301205
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V6A

1. Graph



Measured by 100 MHz Oscilloscope.

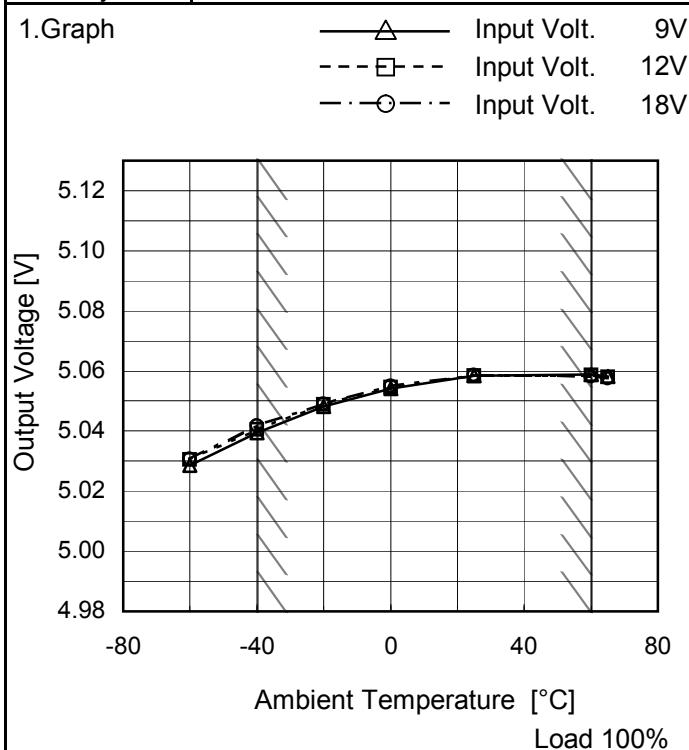
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure B

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	14	14
-40	9	9
-20	7	7
0	6	6
25	5	5
60	4	4
65	4	4
--	-	-
--	-	-
--	-	-
--	-	-

Model	MGS301205
Item	Ambient Temperature Drift
Object	+5V6A



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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
-60	5.029	5.030	5.031
-40	5.039	5.041	5.042
-20	5.048	5.049	5.049
0	5.054	5.055	5.055
25	5.059	5.059	5.059
60	5.059	5.059	5.058
65	5.058	5.058	5.058
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model	MGS301205	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V6A	

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 - 60°C

Input Voltage : 9 - 18V

Load Current : 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

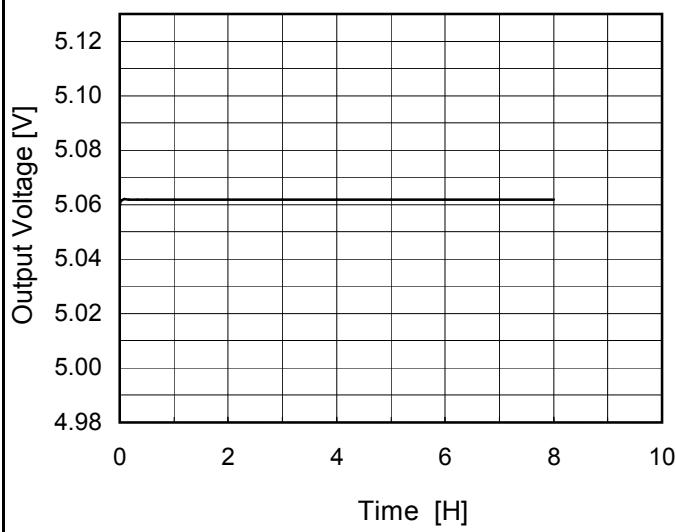
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	60	9	0	5.062	±12	±0.2
Minimum Voltage	-40	9	6	5.039		

COSEL

Model	MGS301205
Item	Time Lapse Drift
Object	+5V6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Input Volt. 12V
Load 100%

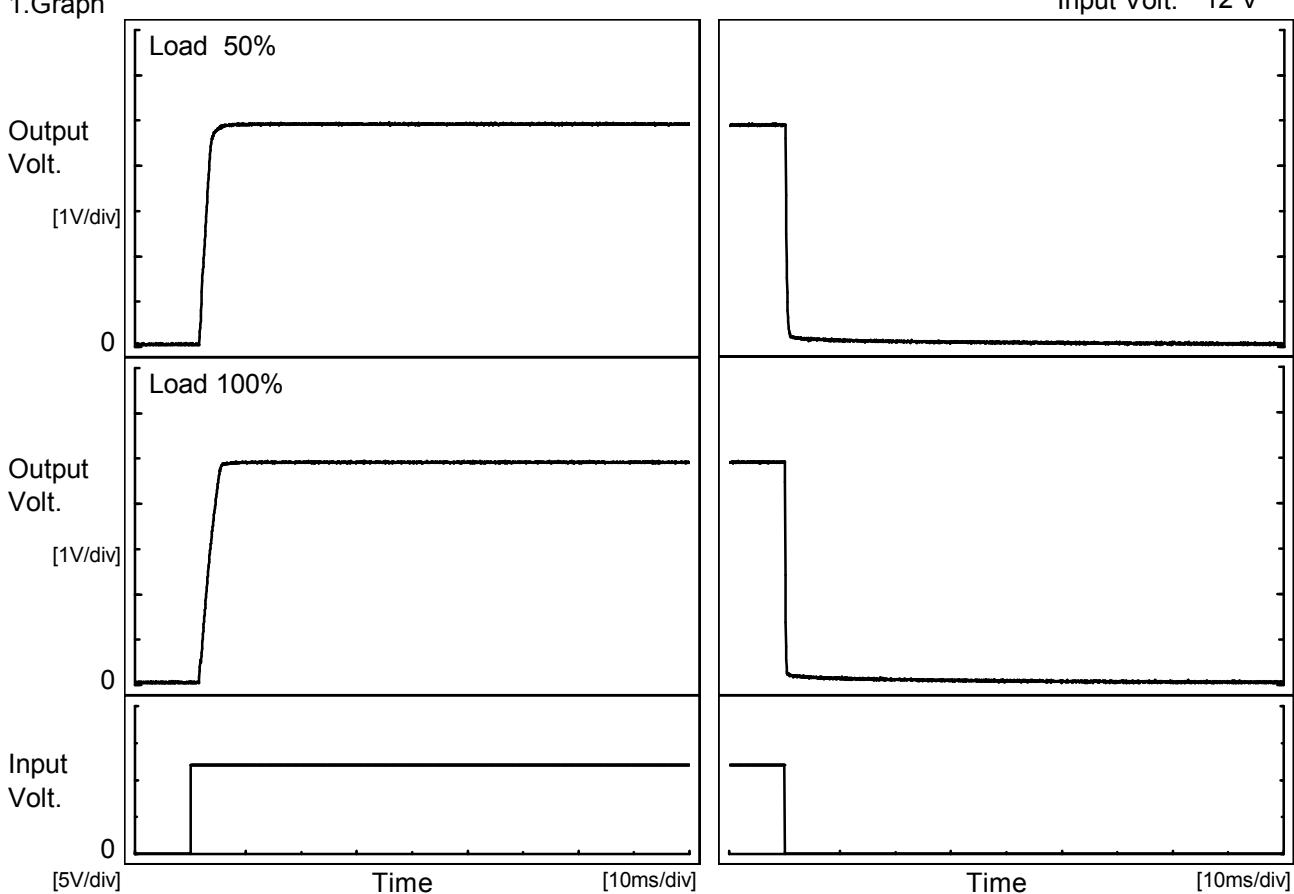
2. Values

Time since start [H]	Output Voltage [V]
0.0	5.059
0.5	5.062
1.0	5.062
2.0	5.062
3.0	5.062
4.0	5.062
5.0	5.062
6.0	5.062
7.0	5.062
8.0	5.062

COSSEL

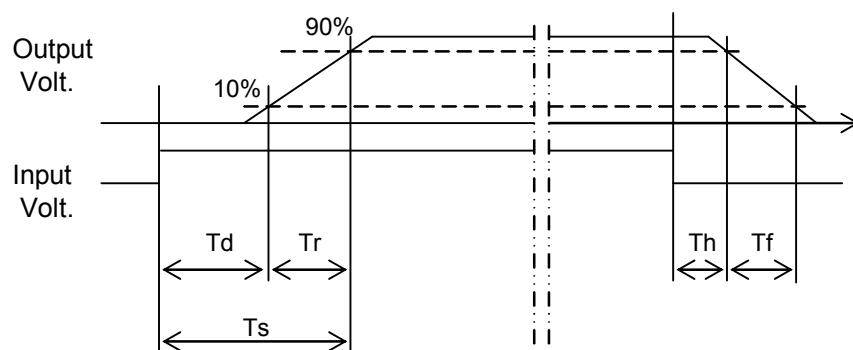
Model	MGS301205	Temperature Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+5V6A	

1. Graph



2. Values

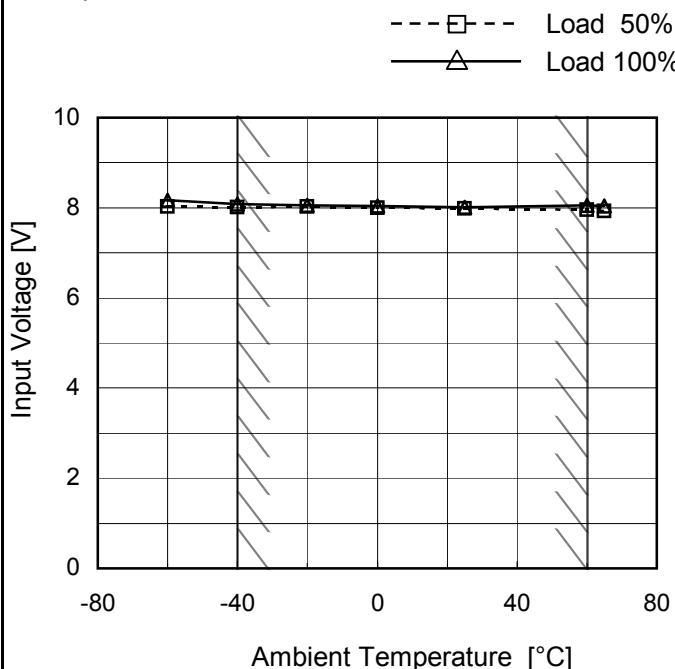
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.9	2.0	3.9	0.1	0.5
100 %		1.8	3.3	5.1	0.1	0.3



Model	MGS301205
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V6A

Testing Circuitry Figure A

1. Graph

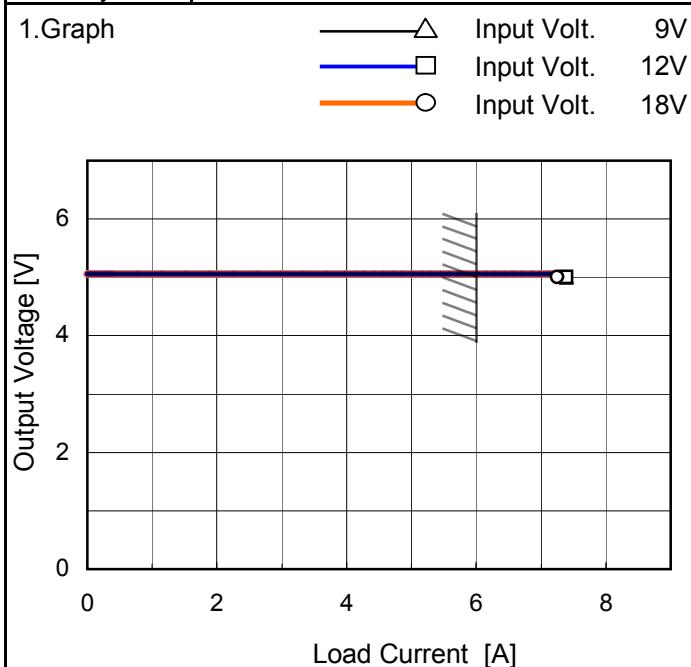


Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	8.1	8.2
-40	8.1	8.1
-20	8.1	8.1
0	8.0	8.1
25	8.0	8.1
60	8.0	8.1
65	8.0	8.1
--	-	-
--	-	-
--	-	-
--	-	-

Model	MGS301205
Item	Overshoot Protection
Object	+5V6A



Intermittent operation occurs when overshoot protection is activated.

Temperature 25°C
Testing Circuitry Figure A

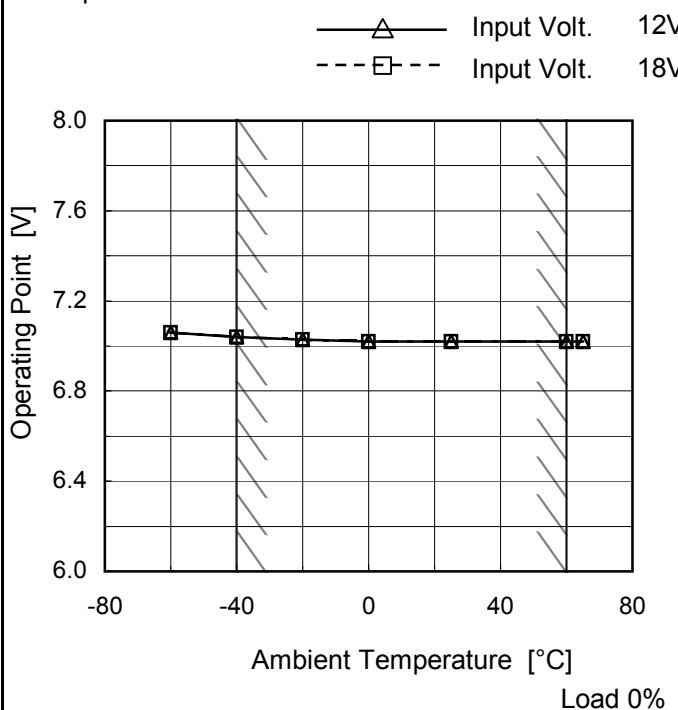
2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
5.00	7.39	7.39	7.26
4.75	-	-	-
4.50	-	-	-
4.00	-	-	-
3.50	-	-	-
3.00	-	-	-
2.50	-	-	-
2.00	-	-	-
1.50	-	-	-
1.00	-	-	-
0.50	-	-	-
0.00	-	-	-

Model	MGS301205
Item	Oversupply Protection
Object	+5V6A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 12[V]	Input Volt. 18[V]
-60	7.06	7.06
-40	7.04	7.04
-20	7.03	7.03
0	7.02	7.02
25	7.02	7.02
60	7.02	7.02
65	7.02	7.02
--	-	-
--	-	-
--	-	-
--	-	-

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

COSEL

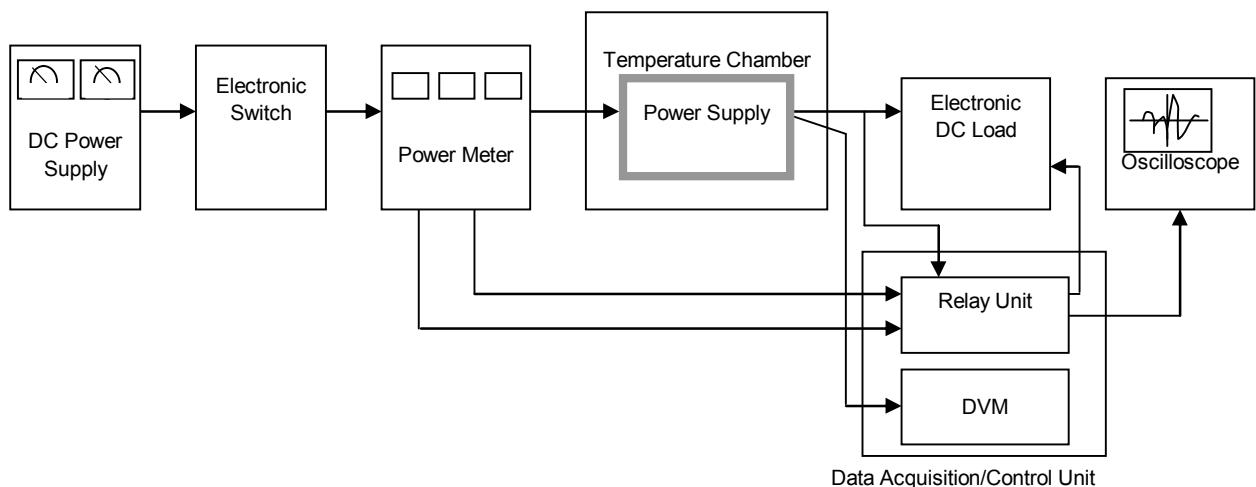


Figure A

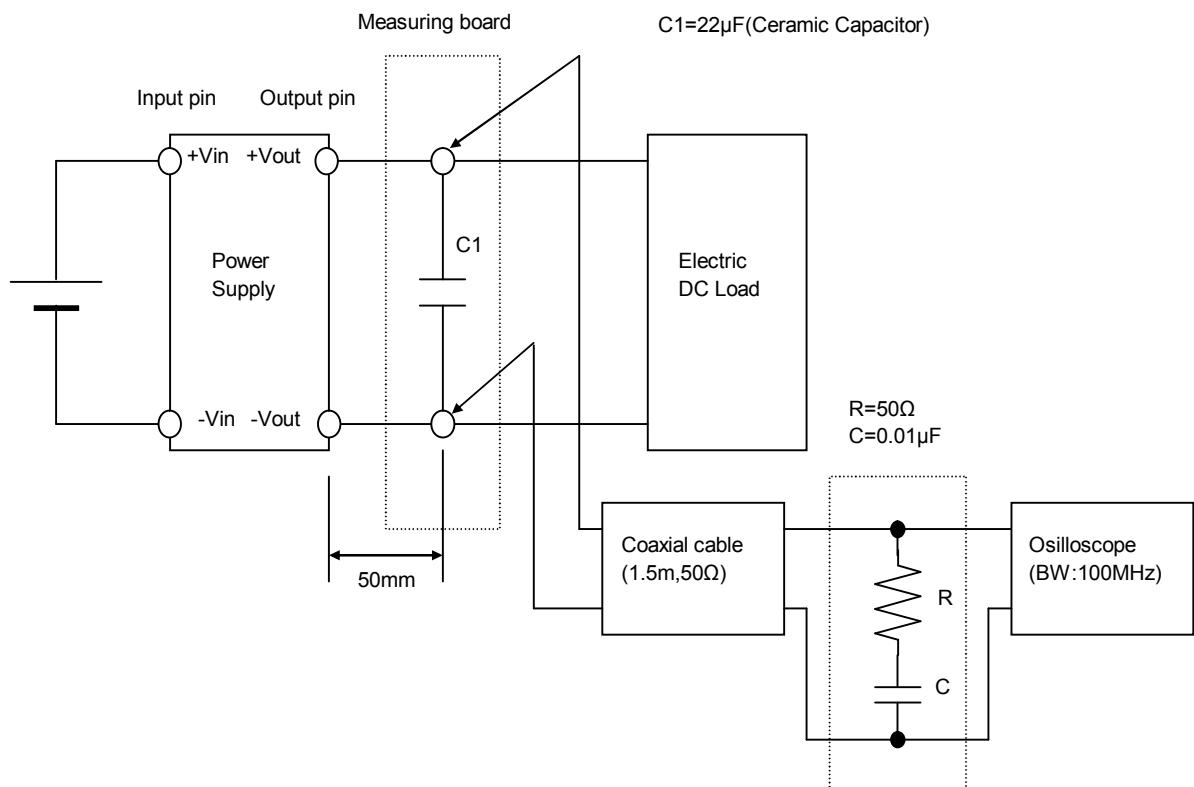


Figure B (Ripple and Ripple noise Characteristic)