

TEST DATA OF STMGFW152405

Regulated DC Power Supply
January 22, 2013

Approved by : Takahiro Yoneda
Takahiro Yoneda Design Manager

Prepared by : Satoshi Kinoshita
Satoshi Kinoshita Design Engineer

COSEL CO.,LTD.

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COSEL

Model

STMGFW152405

Item

Input Current (by Input Voltage)

Object

1.Graph

—△—

Load 100%

---□---

Load 50%

---○---

Load 0%

Input Current [A]

5.0

4.0

3.0

2.0

1.0

0.0

0

10

20

30

40

Input Voltage [V]

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	0.001	0.000
4.0	0.002	0.002	0.002
6.0	0.003	0.003	0.003
7.0	0.003	0.003	0.003
8.0	0.003	0.003	0.003
8.1	0.003	0.003	0.003
8.3	0.044	1.117	0.855
8.5	0.043	1.090	2.486
9.0	0.041	1.026	2.110
12.0	0.032	0.763	1.559
18.0	0.022	0.506	1.026
24.0	0.016	0.390	0.768
36.0	0.012	0.262	0.511
40.0	0.012	0.237	0.506
--	-	-	-
--	-	-	-
--	-	-	-

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Model		STMGFW152405																																	
Item		Efficiency (by Input Voltage)																																	
Object																																			
1.Graph		2.Values																																	
<div><div><div><div><div></div><div></div></div><div></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>Load 100%</div></div> <div><div><div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div></div><div><div>5</div><div>15</div><div>25</div><div>35</div><div>45</div></div></div><div><div>Efficiency [%]</div><div>Input Voltage [V]</div></div></div> <div><div>Note: Slanted line shows the range of the rated input voltage.</div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>8.5</td><td>81.6</td><td>80.0</td></tr><tr><td>9.0</td><td>81.7</td><td>80.5</td></tr><tr><td>12.0</td><td>83.0</td><td>82.4</td></tr><tr><td>15.0</td><td>83.0</td><td>83.1</td></tr><tr><td>18.0</td><td>82.9</td><td>83.3</td></tr><tr><td>24.0</td><td>81.3</td><td>83.2</td></tr><tr><td>30.0</td><td>80.3</td><td>83.4</td></tr><tr><td>36.0</td><td>80.1</td><td>83.3</td></tr><tr><td>40.0</td><td>79.7</td><td>82.5</td></tr></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	8.5	81.6	80.0	9.0	81.7	80.5	12.0	83.0	82.4	15.0	83.0	83.1	18.0	82.9	83.3	24.0	81.3	83.2	30.0	80.3	83.4	36.0	80.1	83.3	40.0	79.7	82.5
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Model

STMGEFW152405

Item

Efficiency (by Load Current)

Object

1.Graph

—△—

Input Volt.

9V

---□---

Input Volt.

12V

---*---

Input Volt.

18V

---○---

Input Volt.

24V

---◇---

Input Volt.

36V

Efficiency [%]

90

80

70

60

50

0

20

40

60

80

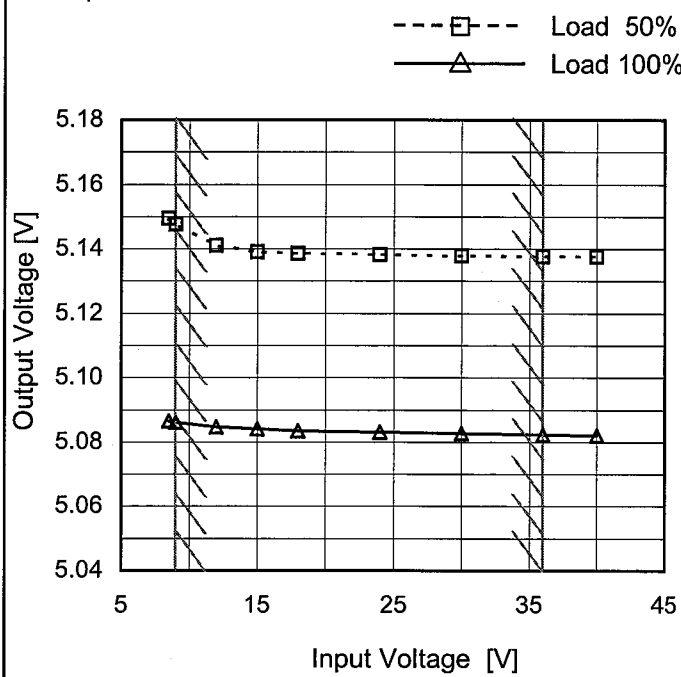
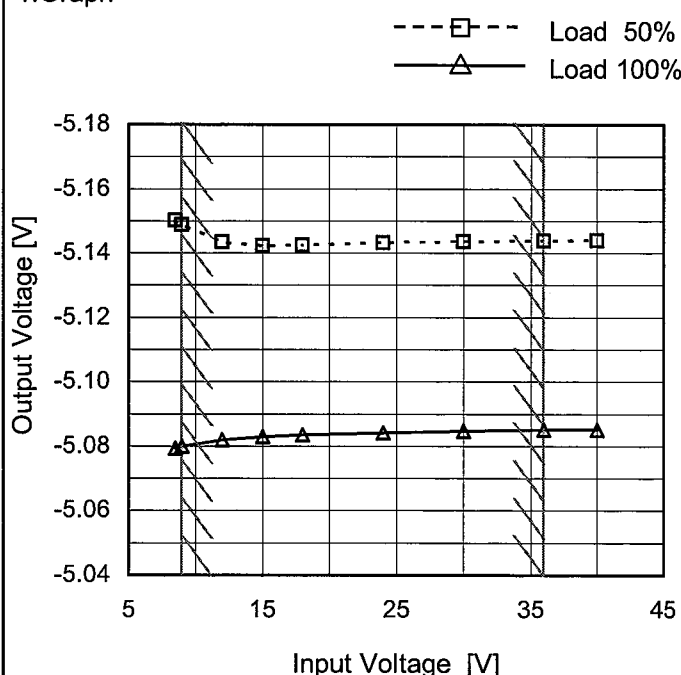
100

120

Load Ration [%]

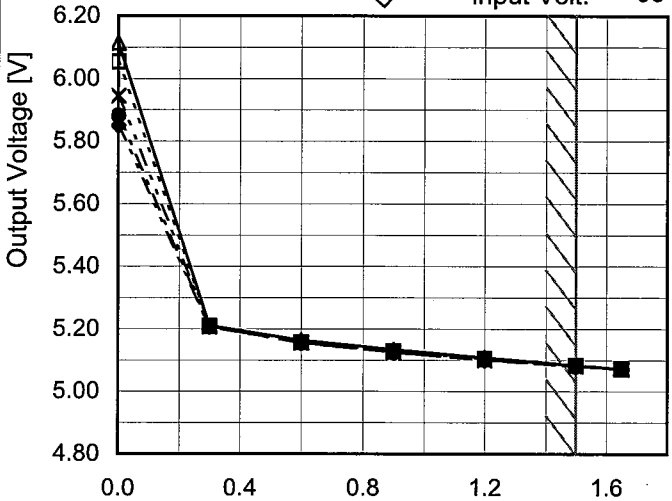
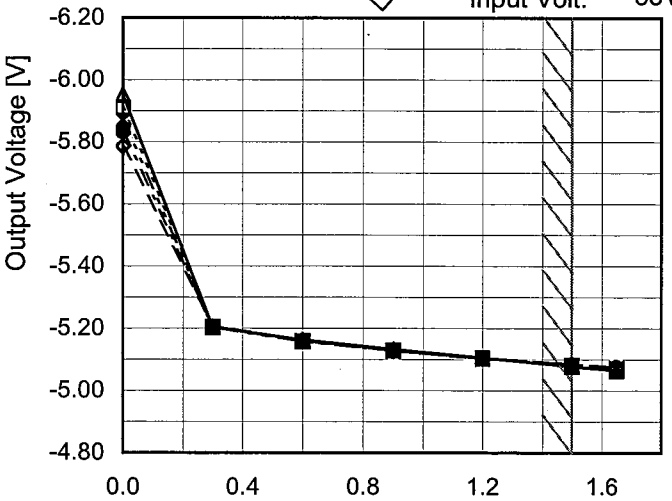
2.Values

Load Ration [%]	Efficiency [%]				
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0	-	-	-	-	-
20	77.4	78.7	76.4	76.4	69.2
40	81.8	81.4	80.9	81.2	77.7
60	81.9	82.5	82.4	83.1	79.9
80	81.5	82.7	83.1	83.5	81.6
100	80.5	82.4	83.2	83.2	83.3
110	79.9	82.1	83.2	83.2	82.7
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-

Model	STMGFW152405	Temperature	25°C																																
Item	Line Regulation	Testing Circuitry	Figure A																																
Object	+5V1.5A																																		
1.Graph		2.Values																																	
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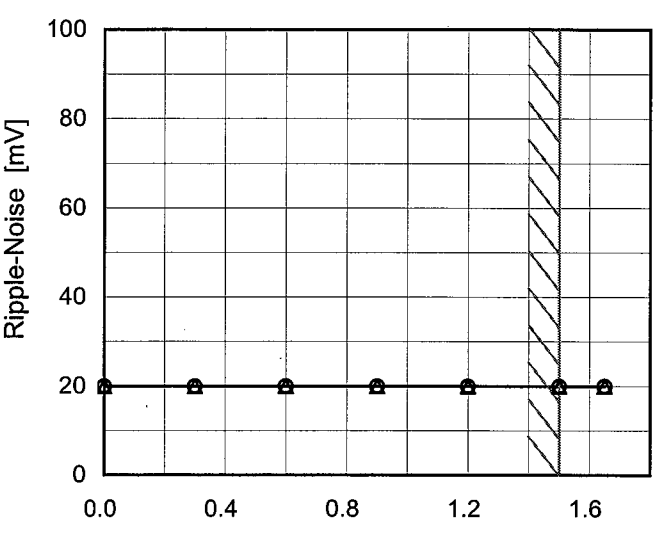
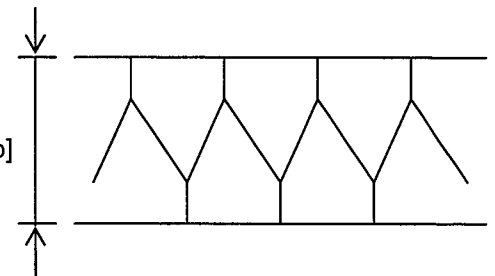
COSEL

Model		STMGEFW152405		Temperature Testing Circuitry	25°C Figure B
Item		Ripple Voltage (by Load Current)			
Object		+5V1.5A			
1.Graph				2.Values	
<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt.</div><div>9V</div></div><div><div>Input Volt.</div><div>36V</div></div></div> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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Model		STMGFW152405		Temperature 25°C																																							
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Measured by 100 MHz Oscilloscope.

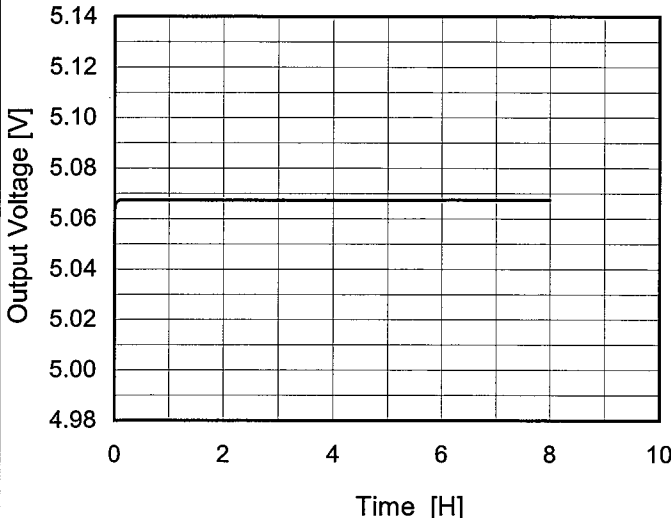
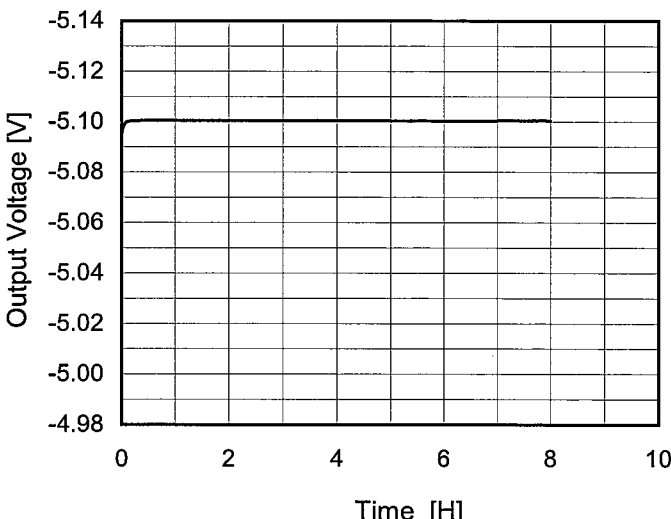
Note: Slanted line shows the range of the rated ambient temperature.

Model		STMGEFW152405																																																																														
Item		Ambient Temperature Drift																																																																														
Object		+5V1.5A																																																																														
1.Graph		<div><div><div>—△—</div>Input Volt. 9V</div><div><div>---□---</div>Input Volt. 12V</div><div><div>-·-·*-·-·-</div>Input Volt. 18V</div><div><div>-·-○-·-·-</div>Input Volt. 24V</div><div><div>---◇---</div>Input Volt. 36V</div></div> <div>Output Voltage [V]</div> <div>Ambient Temperature [°C]</div> <div>Load 100%</div>																																																																														
2.Values		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="5">Output Voltage [V]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>-40</td><td>5.059</td><td>5.059</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>-20</td><td>5.070</td><td>5.069</td><td>5.069</td><td>5.069</td><td>5.068</td></tr><tr><td>0</td><td>5.078</td><td>5.077</td><td>5.076</td><td>5.076</td><td>5.075</td></tr><tr><td>10</td><td>5.081</td><td>5.080</td><td>5.079</td><td>5.079</td><td>5.078</td></tr><tr><td>25</td><td>5.084</td><td>5.083</td><td>5.082</td><td>5.082</td><td>5.081</td></tr><tr><td>30</td><td>5.085</td><td>5.084</td><td>5.083</td><td>5.083</td><td>5.082</td></tr><tr><td>40</td><td>5.087</td><td>5.085</td><td>5.084</td><td>5.084</td><td>5.083</td></tr><tr><td>50</td><td>5.088</td><td>5.086</td><td>5.085</td><td>5.085</td><td>5.084</td></tr><tr><td>60</td><td>5.089</td><td>5.087</td><td>5.086</td><td>5.086</td><td>5.085</td></tr><tr><td>65</td><td>5.089</td><td>5.087</td><td>5.086</td><td>5.086</td><td>5.085</td></tr><tr><td>--</td><td>-</td><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]	Input Volt. 24[V]	Input Volt. 36[V]	-40	5.059	5.059	5.059	5.059	5.059	-20	5.070	5.069	5.069	5.069	5.068	0	5.078	5.077	5.076	5.076	5.075	10	5.081	5.080	5.079	5.079	5.078	25	5.084	5.083	5.082	5.082	5.081	30	5.085	5.084	5.083	5.083	5.082	40	5.087	5.085	5.084	5.084	5.083	50	5.088	5.086	5.085	5.085	5.084	60	5.089	5.087	5.086	5.086	5.085	65	5.089	5.087	5.086	5.086	5.085	--	-	-	-	-	-
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Note: Slanted line shows the range of the rated ambient temperature.																																																																																

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BC - 10726

COSEL

Model	STMGEFW152405																								
Item	Time Lapse Drift																								
Object	+5V1.5A																								
1.Graph		2.Values																							
<div><p>Input Volt. 24V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.063</td></tr><tr><td>0.5</td><td>5.067</td></tr><tr><td>1.0</td><td>5.067</td></tr><tr><td>2.0</td><td>5.067</td></tr><tr><td>3.0</td><td>5.067</td></tr><tr><td>4.0</td><td>5.067</td></tr><tr><td>5.0</td><td>5.067</td></tr><tr><td>6.0</td><td>5.068</td></tr><tr><td>7.0</td><td>5.068</td></tr><tr><td>8.0</td><td>5.068</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.063	0.5	5.067	1.0	5.067	2.0	5.067	3.0	5.067	4.0	5.067	5.0	5.067	6.0	5.068	7.0	5.068	8.0	5.068
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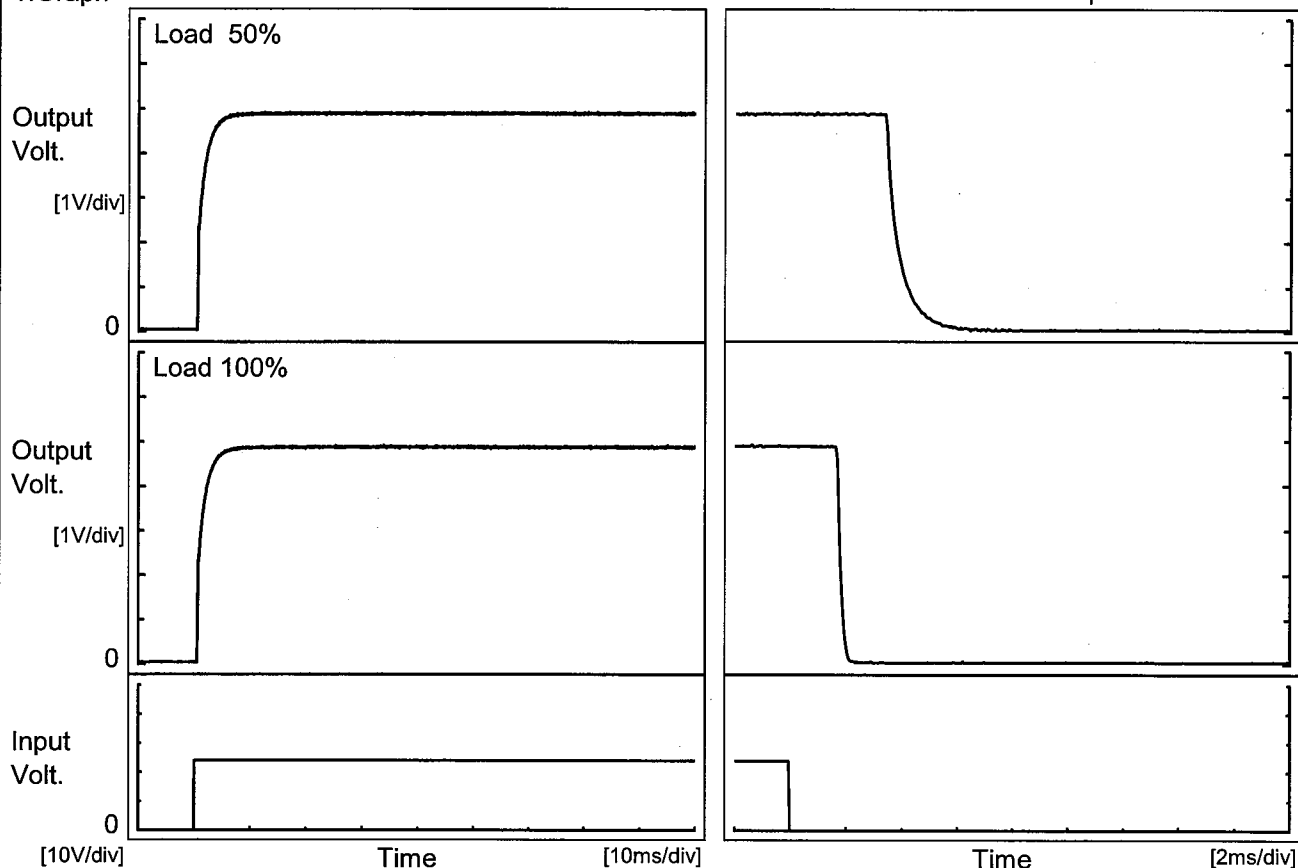
BC - 10726

COSEL

Model	STMGFW152405	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V1.5A		

1. Graph

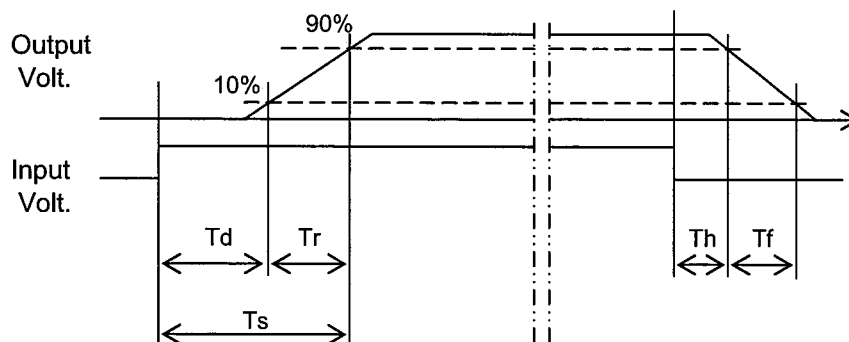
Input Volt. 24 V



2. Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.6	3.1	3.7	3.5	1.1
100 %	0.6	3.1	3.7	1.7	0.3

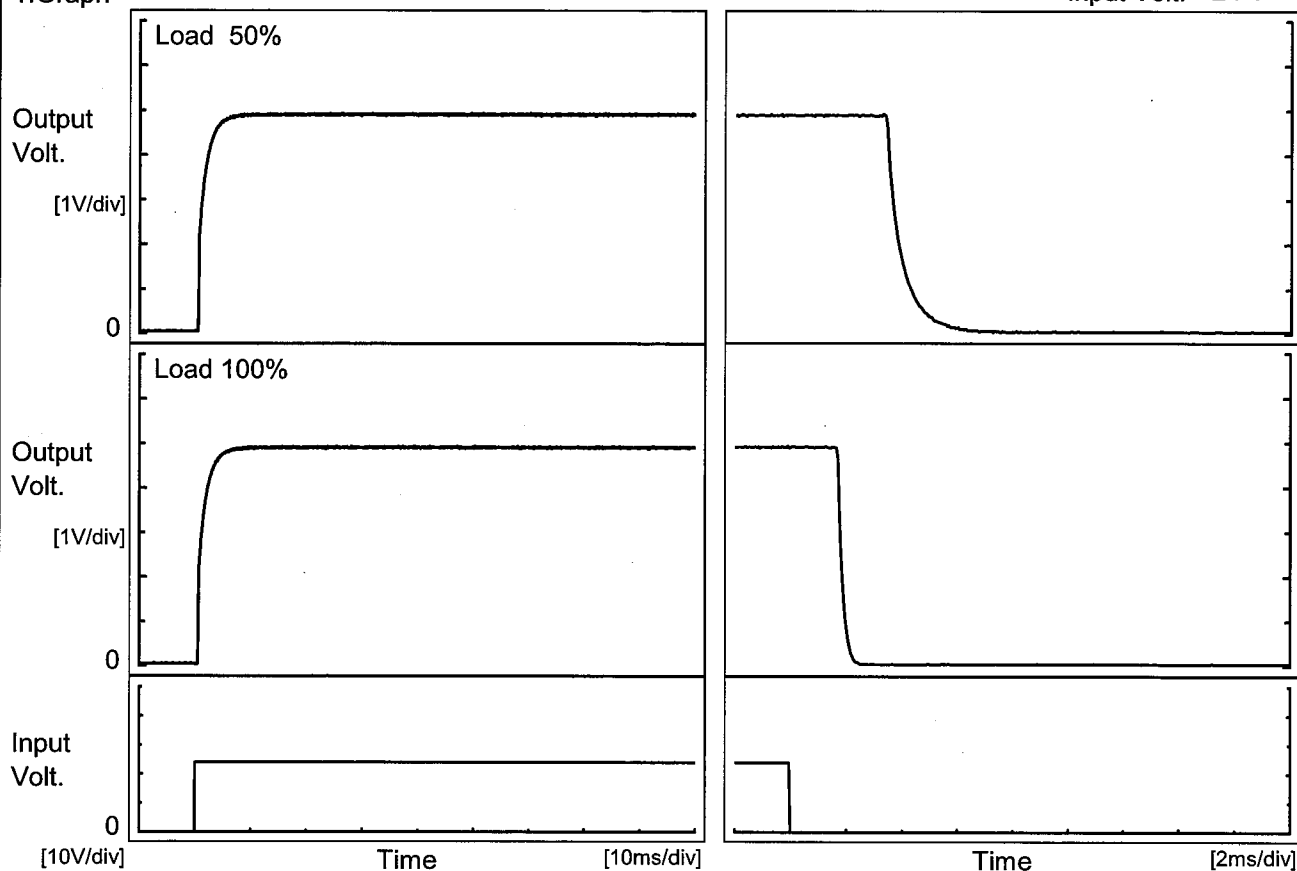


COSEL

Model	STMGEFW152405	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-5V1.5A		

1. Graph

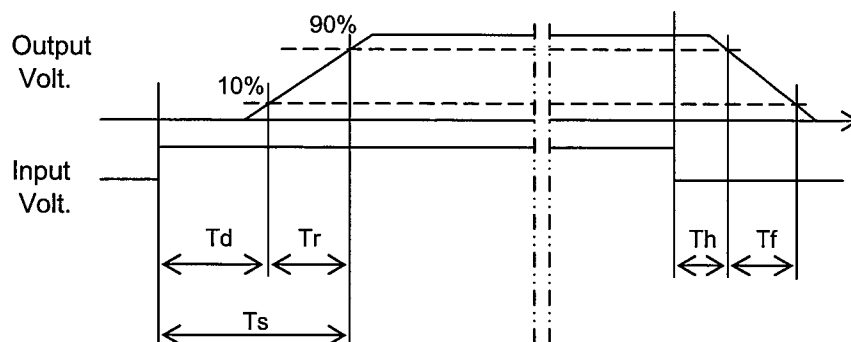
Input Volt. 24 V



2. Values

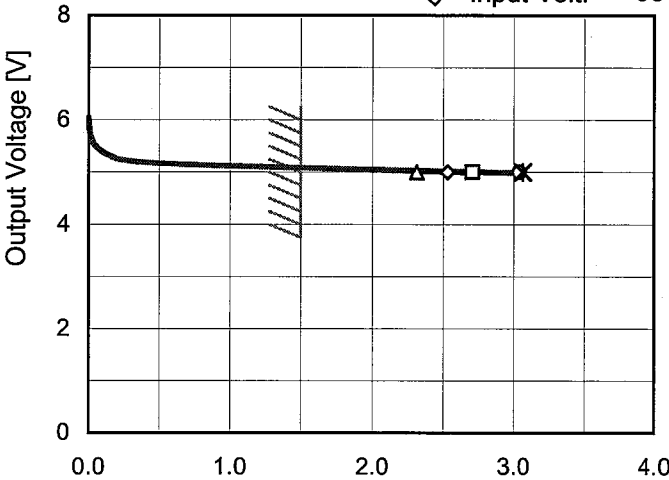
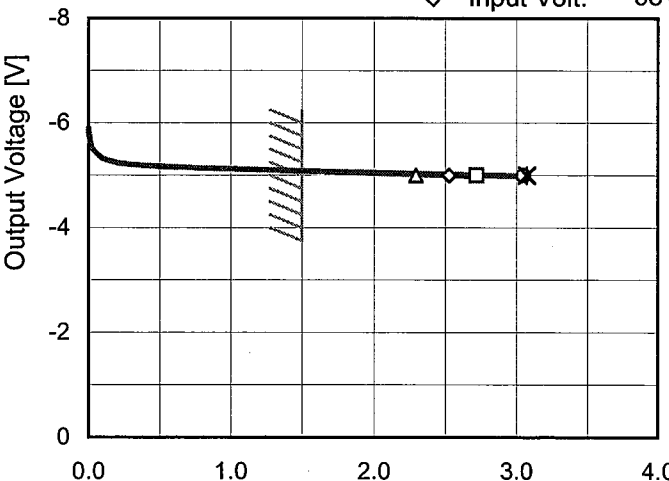
[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.6	3.1	3.7	3.5	1.2
100 %	0.6	3.1	3.7	1.7	0.3



Model	STMGEFW152405	Testing Circuitry Figure A																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																								
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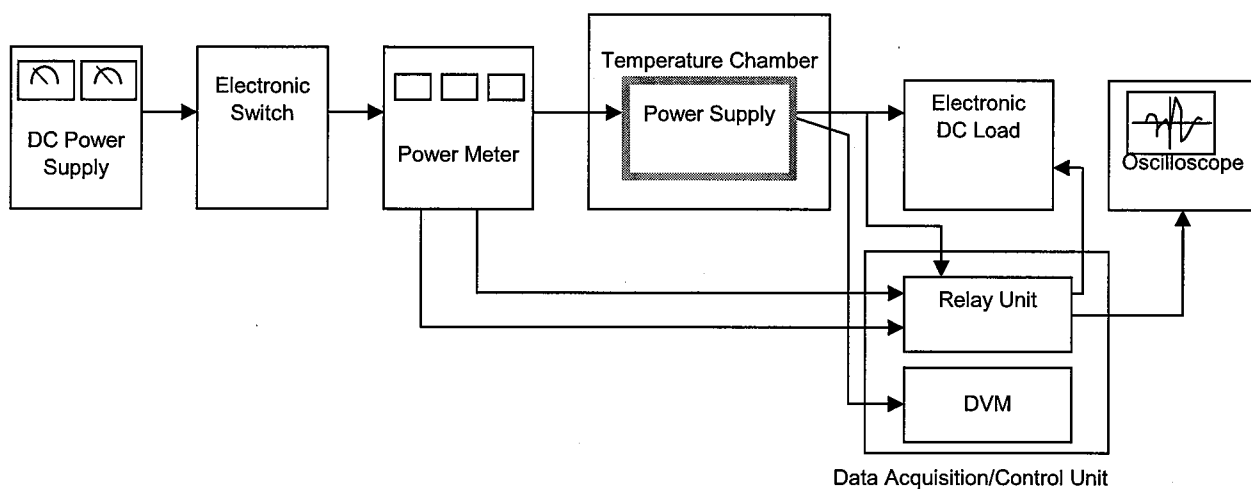


Figure A

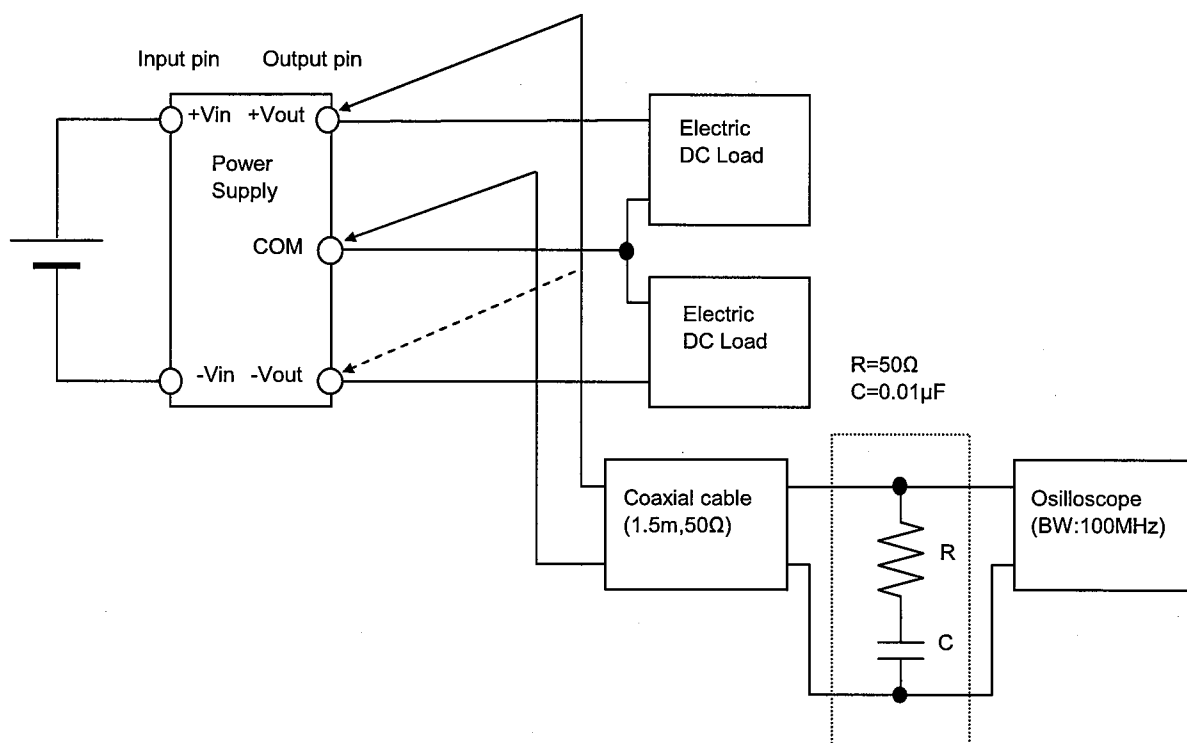


Figure B (Ripple and Ripple noise Characteristic)