

TEST DATA OF STMGFW302415

Regulated DC Power Supply
January 31, 2013

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Takahiro Yoneda Design Manager

Prepared by : Satoshi Kinoshita
Satoshi Kinoshita Design Engineer

COSEL CO.,LTD.

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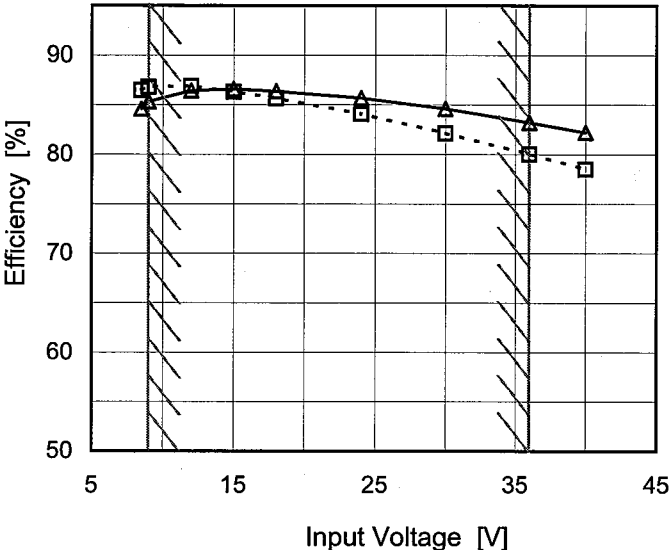
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<div><div><div><div></div><div>Load 100%</div></div><div><div></div><div>Load 50%</div></div><div><div></div><div>Load 0%</div></div></div><div><p>Note: Slanted line shows the range of the rated input voltage.</p></div></div> <div><table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Load 0%</th><th>Load 50%</th><th>Load 100%</th></tr><tr><td>0.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>4.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>6.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>7.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>8.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>8.2</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>8.5</td><td>0.049</td><td>2.032</td><td>4.178</td></tr><tr><td>8.6</td><td>0.049</td><td>2.004</td><td>4.184</td></tr><tr><td>9.0</td><td>0.049</td><td>1.904</td><td>3.958</td></tr><tr><td>12.0</td><td>0.047</td><td>1.433</td><td>2.910</td></tr><tr><td>18.0</td><td>0.045</td><td>0.969</td><td>1.946</td></tr><tr><td>24.0</td><td>0.030</td><td>0.739</td><td>1.472</td></tr><tr><td>36.0</td><td>0.029</td><td>0.518</td><td>1.010</td></tr><tr><td>36.4</td><td>0.029</td><td>0.513</td><td>1.000</td></tr><tr><td>40.0</td><td>0.029</td><td>0.474</td><td>0.922</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></div> <div><div>BC - 10734</div></div>		Input Voltage [V]	Input Current [A]			Load 0%	Load 50%	Load 100%	0.0	0.000	0.000	0.000	4.0	0.000	0.000	0.000	6.0	0.000	0.000	0.000	7.0	0.000	0.000	0.000	8.0	0.000	0.000	0.000	8.2	0.000	0.000	0.000	8.5	0.049	2.032	4.178	8.6	0.049	2.004	4.184	9.0	0.049	1.904	3.958	12.0	0.047	1.433	2.910	18.0	0.045	0.969	1.946	24.0	0.030	0.739	1.472	36.0	0.029	0.518	1.010	36.4	0.029	0.513	1.000	40.0	0.029	0.474	0.922	--	-	-	-	--	-	-	-	--	-	-	-
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Model		STMGFW302415		Temperature 25°C																																							
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Item		Ripple-Noise	
Object		-15V1A	
1.Graph		2.Values	
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Item		Ripple Voltage (by Ambient Temp.)																																							
Object		+15V1A																																							
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Measured by 100 MHz Oscilloscope.																																									
Note: Slanted line shows the range of the rated ambient temperature.																																									

Testing Circuitry Figure A



2.Values

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

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		Testing Circuitry Figure A
Model	STMGFW302415	
Item	Output Voltage Accuracy	

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 : -20 - 60°C

Input Voltage : 9 - 36V

Load Current (AVR 1) : 0 - 1A (AVR 2) : 0 - 1A

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

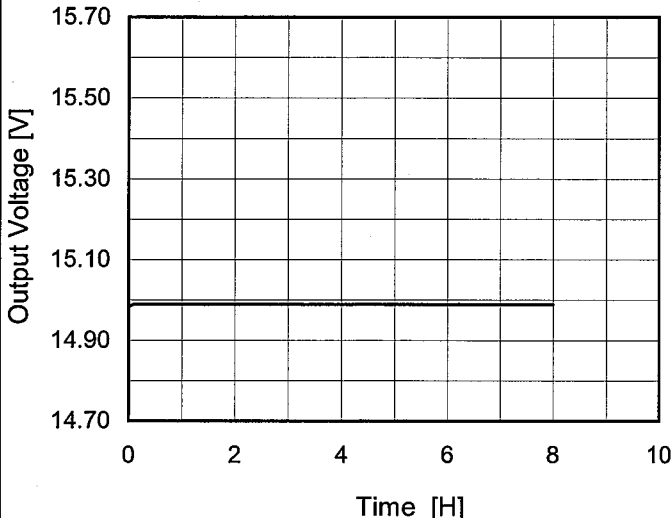
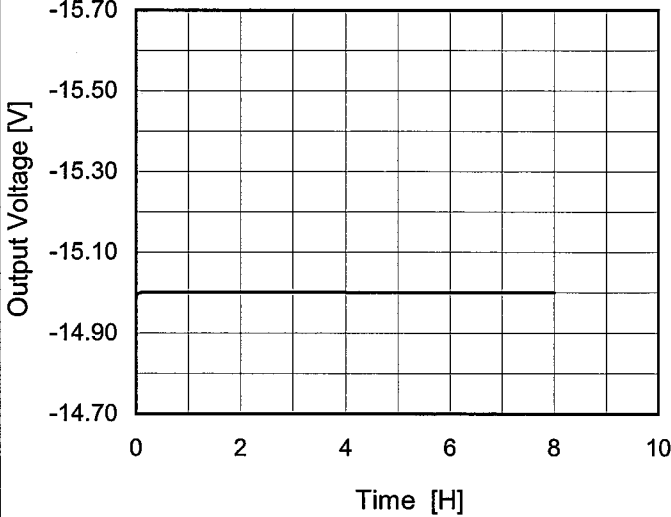
* Output Voltage Accuracy (Ration) =
$$\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

Object	+15V1A		Output		Output Voltage Accuracy	
Item	Temperature [°C]	Input Voltage[V]	Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	60	24	0	15.362	±198	±1.3
Minimum Voltage	-20	9	1	14.966		

Object	-15V1A		Output		Output Voltage Accuracy	
Item	Temperature [°C]	Input Voltage[V]	Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	60	9	0	-15.310	±171	±1.1
Minimum Voltage	-20	9	1	-14.969		

COSEL

Model	STMGEFW302415																								
Item	Time Lapse Drift		Temperature 25°C Testing Circuitry Figure A																						
Object	+15V1A																								
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>14.980</td></tr><tr><td>0.5</td><td>14.990</td></tr><tr><td>1.0</td><td>14.989</td></tr><tr><td>2.0</td><td>14.989</td></tr><tr><td>3.0</td><td>14.989</td></tr><tr><td>4.0</td><td>14.989</td></tr><tr><td>5.0</td><td>14.989</td></tr><tr><td>6.0</td><td>14.989</td></tr><tr><td>7.0</td><td>14.989</td></tr><tr><td>8.0</td><td>14.989</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	14.980	0.5	14.990	1.0	14.989	2.0	14.989	3.0	14.989	4.0	14.989	5.0	14.989	6.0	14.989	7.0	14.989	8.0	14.989
Time since start [H]	Output Voltage [V]																								
0.0	14.980																								
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<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>-14.990</td></tr><tr><td>0.5</td><td>-15.001</td></tr><tr><td>1.0</td><td>-15.001</td></tr><tr><td>2.0</td><td>-15.001</td></tr><tr><td>3.0</td><td>-15.001</td></tr><tr><td>4.0</td><td>-15.001</td></tr><tr><td>5.0</td><td>-15.001</td></tr><tr><td>6.0</td><td>-15.001</td></tr><tr><td>7.0</td><td>-15.001</td></tr><tr><td>8.0</td><td>-15.001</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-14.990	0.5	-15.001	1.0	-15.001	2.0	-15.001	3.0	-15.001	4.0	-15.001	5.0	-15.001	6.0	-15.001	7.0	-15.001	8.0	-15.001
Time since start [H]	Output Voltage [V]																								
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5.0	-15.001																								
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8.0	-15.001																								

- 15 -

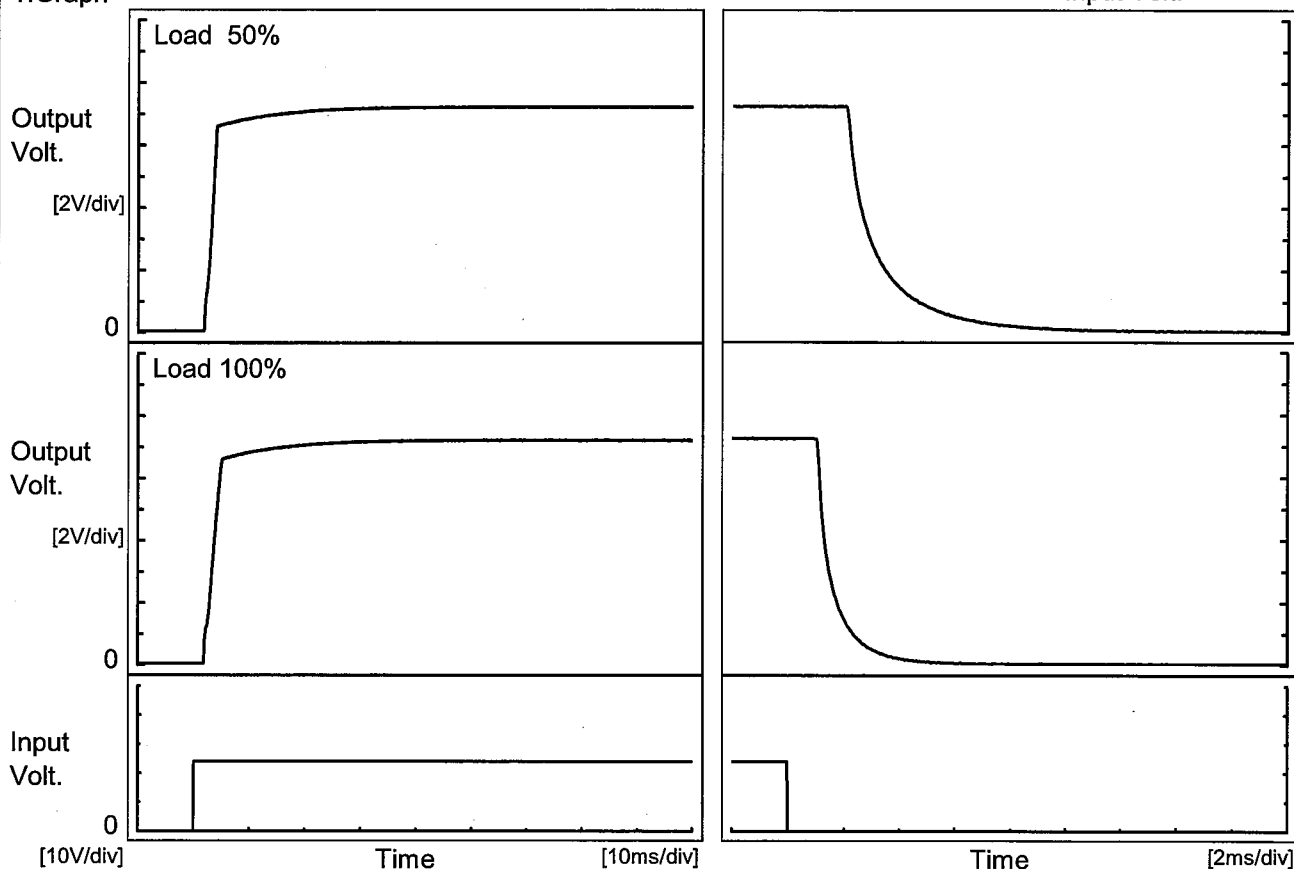
BC - 10734

COSEL

Model	STMGEFW302415	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V1A		

1. Graph

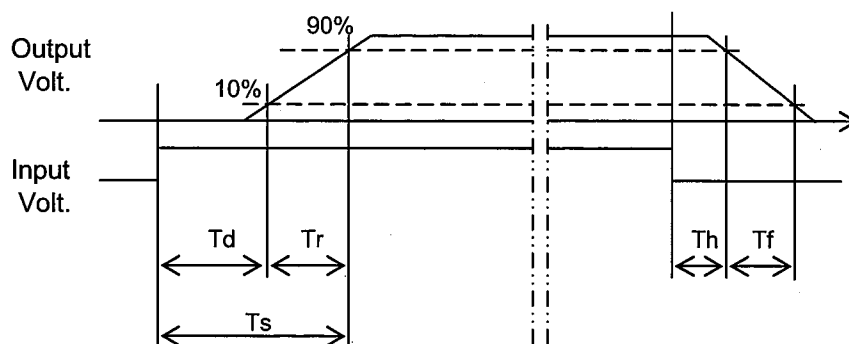
Input Volt. 24 V



2. Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	2.1	6.2	8.3	2.1	3.0
100 %	2.0	6.9	8.9	1.1	1.5

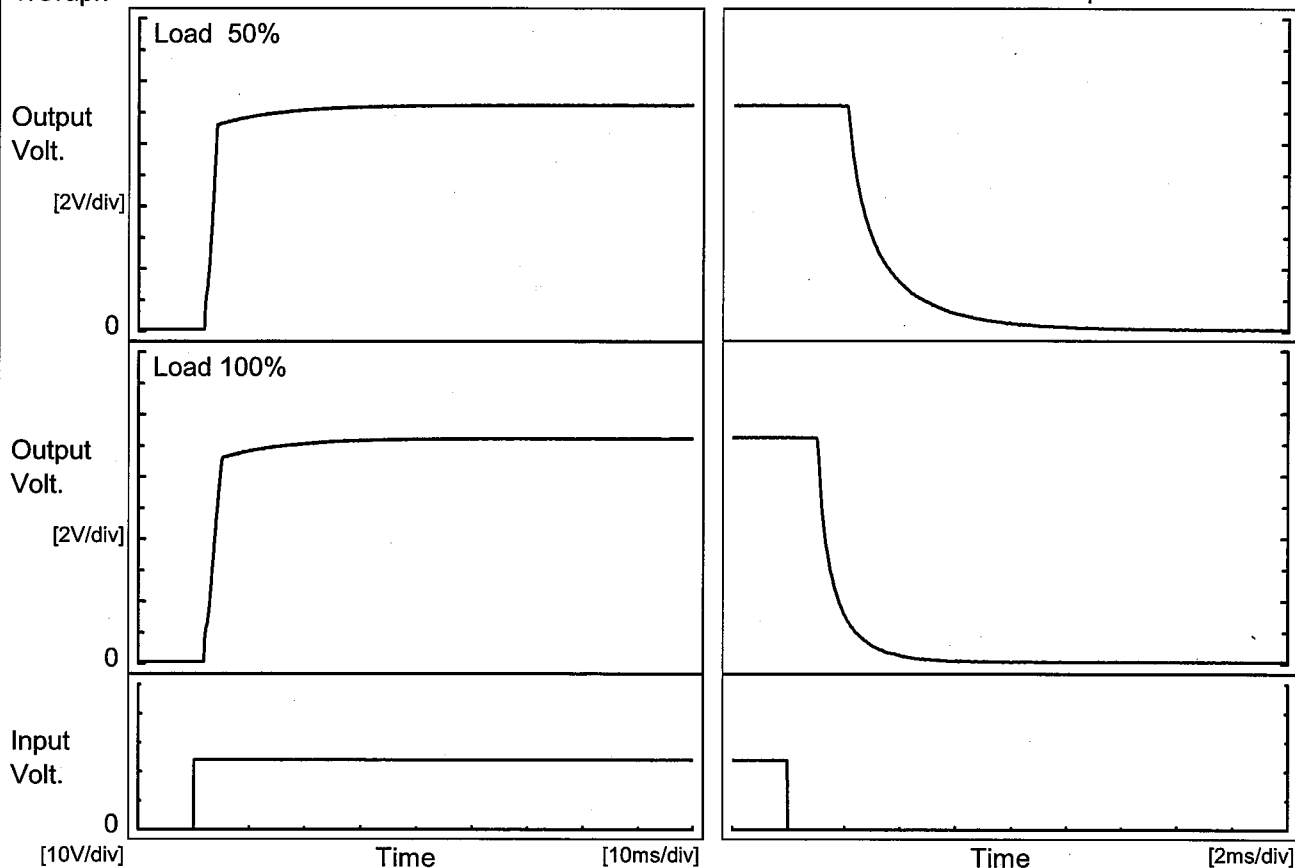


COSEL

Model	STMGFW302415	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V1A		

1. Graph

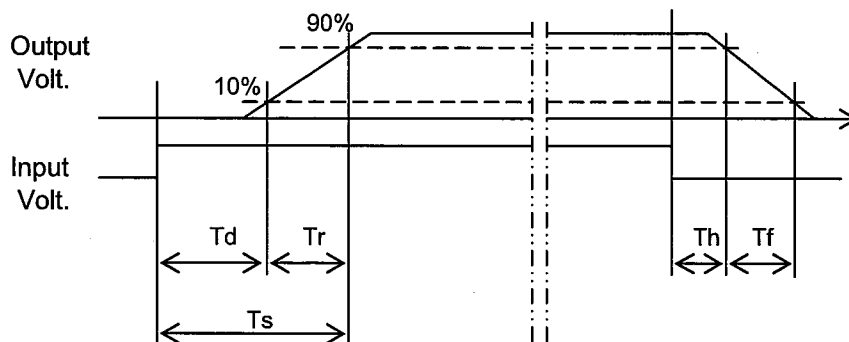
Input Volt. 24 V



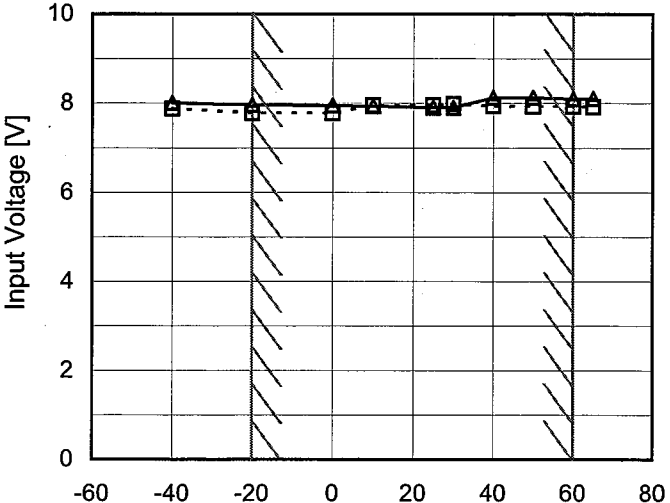
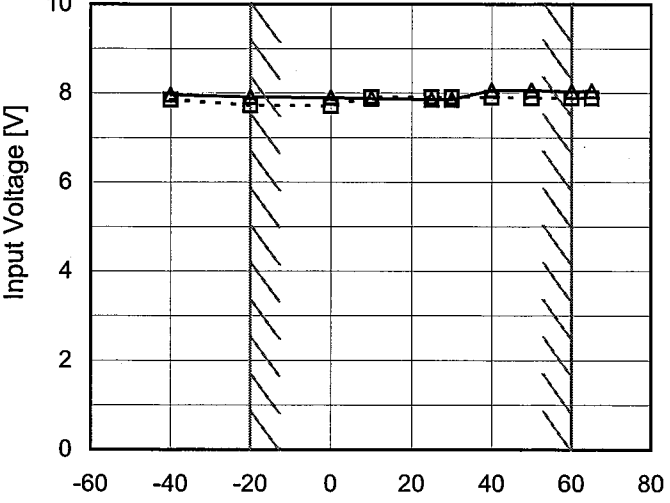
2. Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	2.1	6.1	8.2	2.1	3.2
100 %	2.0	6.8	8.8	1.1	1.6



COSEL

Model	STMGEFW302415	Testing Circuitry Figure A																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																								
Object	+15V1A																																								
1.Graph		2.Values																																							
<div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div><div>---</div><div>△</div><div>---</div></div> <div>Load 100%</div>  <div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div><div>---</div><div>△</div><div>---</div></div> <div>Load 100%</div> <table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-40</td><td>7.9</td><td>8.1</td></tr><tr><td>-20</td><td>7.8</td><td>8.0</td></tr><tr><td>0</td><td>7.8</td><td>8.0</td></tr><tr><td>10</td><td>8.0</td><td>8.0</td></tr><tr><td>25</td><td>8.0</td><td>8.0</td></tr><tr><td>30</td><td>8.0</td><td>8.0</td></tr><tr><td>40</td><td>8.0</td><td>8.2</td></tr><tr><td>50</td><td>8.0</td><td>8.2</td></tr><tr><td>60</td><td>8.0</td><td>8.1</td></tr><tr><td>65</td><td>8.0</td><td>8.2</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-40	7.9	8.1	-20	7.8	8.0	0	7.8	8.0	10	8.0	8.0	25	8.0	8.0	30	8.0	8.0	40	8.0	8.2	50	8.0	8.2	60	8.0	8.1	65	8.0	8.2	--	-	-		
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Note: Slanted line shows the range of the rated ambient temperature.																																									



Model		STMGEFW302415																																																																																				
Item		Overcurrent Protection																																																																																				
Object		+15V1A																																																																																				
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 Volt.</div><div>24V</div></div><div><div>◇</div><div>Input Volt.</div><div>36V</div></div></div> <div><div>Output Voltage [V]</div><div>Load Current [A]</div></div>																																																																																				
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Output Voltage [V]	Load Current [A]																																																																																					
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Output Voltage [V]	Load Current [A]																																																																																					
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-1.5	-	-	-	-	-																																																																																	
0.0	-	-	-	-	-																																																																																	
Note: Slanted line shows the range of the rated load current. Intermittent operation occurs when overcurrent protection is activated.																																																																																						

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BC - 10734

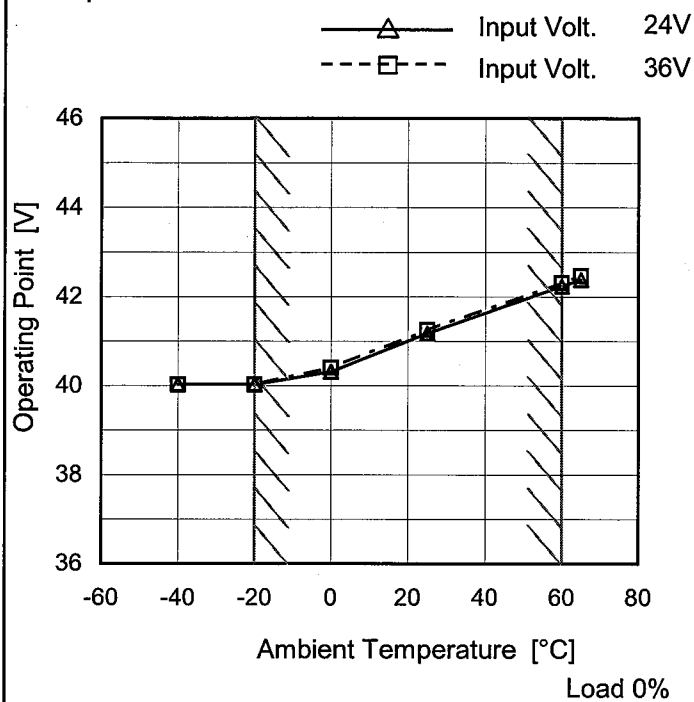
Model STMGEFW302415

Item Overvoltage Protection

Object +30V1A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 24[V]	Input Volt. 36[V]
-40	40.03	40.03
-20	40.03	40.03
0	40.32	40.40
25	41.18	41.25
60	42.24	42.31
65	42.38	42.46
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

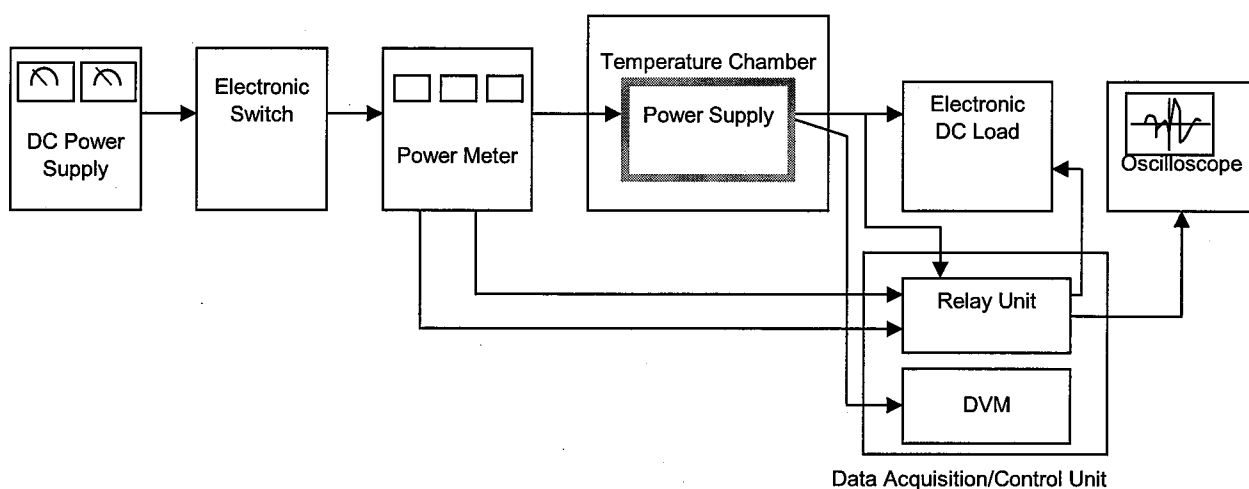


Figure A

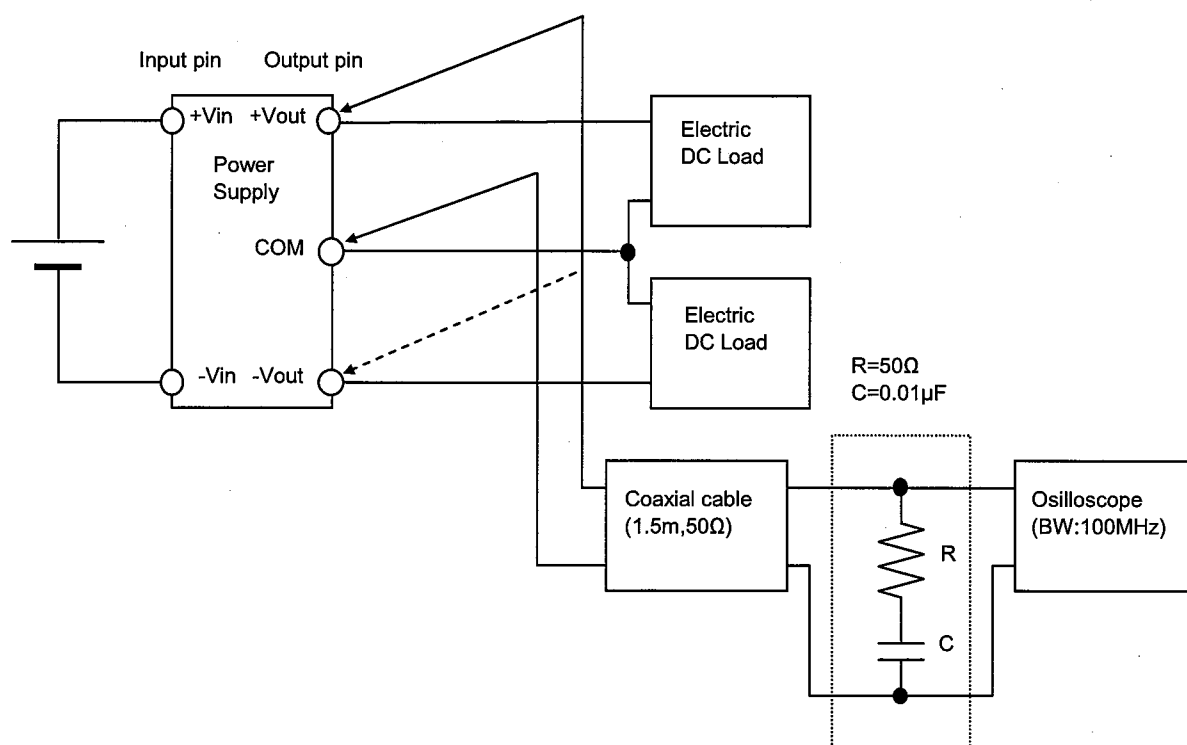


Figure B (Ripple and Ripple noise Characteristic)