

TEST DATA OF MGFS402405

Regulated DC Power Supply
December 5, 2018

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COSEL CO.,LTD.

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Model		MGFS402405		Temperature 25°C																																																																																
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		※During this area, overcurrent protection activates and power supply operates in hiccup mode.																																																																																		

Model

MGFS402405

Item

Input Current (by Load Current)

Object

1.Graph

—△—

Input Volt.

9V

---□---

Input Volt.

12V

-·-·*-·-

Input Volt.

18V

-·-○-·-

Input Volt.

24V

--◇--

Input Volt.

36V

Input Current [A]

8.0

6.4

4.8

3.2

1.6

0.0

0

2

4

6

8

10

Load Current [A]

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]	Input Volt. 24[V]	Input Volt. 36[V]
0.0	0.067	0.055	0.043	0.038	0.045
1.6	1.011	0.757	0.512	0.389	0.268
3.2	1.972	1.487	0.991	0.749	0.509
4.0	2.469	1.844	1.223	0.932	0.627
4.8	2.978	2.228	1.474	1.110	0.748
5.6	3.499	2.600	1.723	1.293	0.868
6.4	- ※1	2.979	1.966	1.473	0.987
8.0	- ※1	- ※2	2.471	1.845	1.235
8.8	- ※1	- ※2	2.737	2.038	1.357
--	-	-	-	-	-
--	-	-	-	-	-

※1 Maximum output current at minimum input Voltage is 70% of rated load current.

※2 Maximum output current at 12V input Voltage is 80% of rated load current.

Refer to instruction manuals for details of input derating.

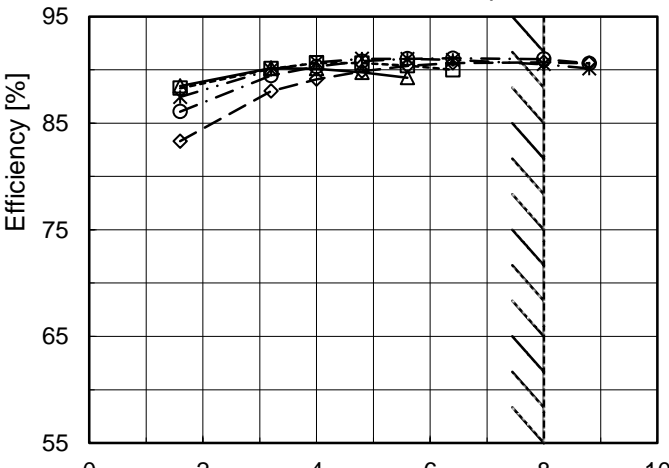
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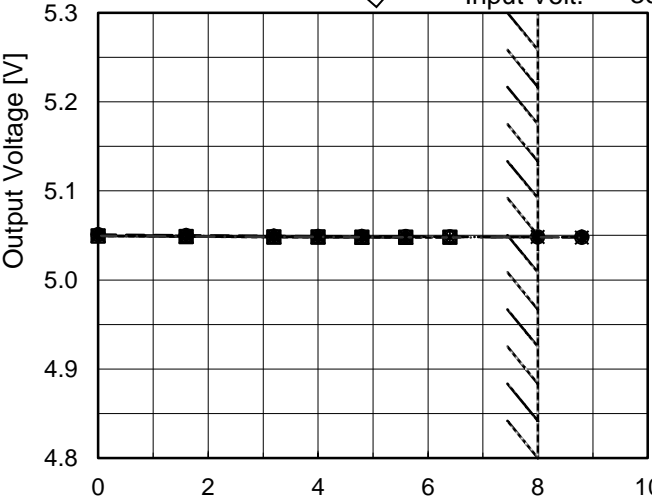
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1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div>---□---</div><div>Input Volt.</div><div>12V</div></div><div><div>-·-·*-·-·-</div><div>Input Volt.</div><div>18V</div></div><div><div>-·-○-·-·-</div><div>Input Volt.</div><div>24V</div></div><div><div>---◇---</div><div>Input Volt.</div><div>36V</div></div></div> <div></div>		2.Values																																																																														
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1.Graph				2.Values	
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Model		MGFS402405																																																																														
Item		Efficiency (by Load Current)																																																																														
Object																																																																																
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>  <p>Note: Slanted line shows the range of the rated load current.</p>																																																																														
2.Values		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Efficiency [%]</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>0.0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.6</td><td>88.5</td><td>88.3</td><td>87.4</td><td>86.1</td><td>83.3</td></tr><tr><td>3.2</td><td>90.2</td><td>90.1</td><td>90.0</td><td>89.5</td><td>88.0</td></tr><tr><td>4.0</td><td>90.1</td><td>90.6</td><td>90.7</td><td>90.3</td><td>89.1</td></tr><tr><td>4.8</td><td>89.8</td><td>90.6</td><td>91.0</td><td>90.8</td><td>89.9</td></tr><tr><td>5.6</td><td>89.3</td><td>90.4</td><td>91.0</td><td>91.0</td><td>90.4</td></tr><tr><td>6.4</td><td>- ※1</td><td>90.0</td><td>90.9</td><td>91.1</td><td>90.6</td></tr><tr><td>8.0</td><td>- ※1</td><td>- ※2</td><td>90.5</td><td>91.0</td><td>90.7</td></tr><tr><td>8.8</td><td>- ※1</td><td>- ※2</td><td>90.1</td><td>90.6</td><td>90.6</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Efficiency [%]					Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	-	-	-	-	-	1.6	88.5	88.3	87.4	86.1	83.3	3.2	90.2	90.1	90.0	89.5	88.0	4.0	90.1	90.6	90.7	90.3	89.1	4.8	89.8	90.6	91.0	90.8	89.9	5.6	89.3	90.4	91.0	91.0	90.4	6.4	- ※1	90.0	90.9	91.1	90.6	8.0	- ※1	- ※2	90.5	91.0	90.7	8.8	- ※1	- ※2	90.1	90.6	90.6	--	-	-	-	-	-	--	-	-	-	-	-
Load Current [A]	Efficiency [%]																																																																															
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		<div>※1 Maximum output current at minimum input Voltage is 70% of rated load current.</div> <div>※2 Maximum output current at 12V input Voltage is 80% of rated load current.</div> <div>Refer to instruction manuals for details of input derating.</div>																																																																														

Model		MGFS402405																																	
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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>Load 50%</div><div>Load 100%</div></div></div><div><div><div><div>5.3</div><div>5.2</div><div>5.1</div><div>5.0</div><div>4.9</div><div>4.8</div></div><div><div>0</div><div>10</div><div>20</div><div>30</div><div>40</div><div>50</div></div></div><div><div>Output Voltage [V]</div><div>Input Voltage [V]</div></div></div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>8.5</td><td>5.047</td><td>- ※1</td></tr><tr><td>9.0</td><td>5.048</td><td>- ※1</td></tr><tr><td>12.0</td><td>5.048</td><td>- ※2</td></tr><tr><td>15.0</td><td>5.048</td><td>5.048</td></tr><tr><td>18.0</td><td>5.048</td><td>5.048</td></tr><tr><td>24.0</td><td>5.049</td><td>5.048</td></tr><tr><td>30.0</td><td>5.049</td><td>5.048</td></tr><tr><td>36.0</td><td>5.049</td><td>5.048</td></tr><tr><td>40.0</td><td>5.049</td><td>5.048</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	8.5	5.047	- ※1	9.0	5.048	- ※1	12.0	5.048	- ※2	15.0	5.048	5.048	18.0	5.048	5.048	24.0	5.049	5.048	30.0	5.049	5.048	36.0	5.049	5.048	40.0	5.049	5.048
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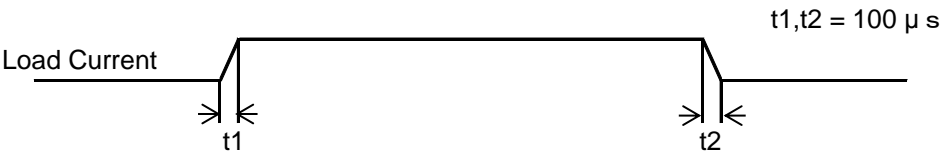
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Model		MGFS402405		Temperature 25°C																																																																														
Item		Load Regulation		Testing Circuitry Figure A																																																																														
Object		+5V8A																																																																																
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>		2.Values																																																																														
				<table><tr><th rowspan="2">Load Current [A]</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>0.0</td><td>5.050</td><td>5.049</td><td>5.050</td><td>5.051</td><td>5.051</td></tr><tr><td>1.6</td><td>5.049</td><td>5.049</td><td>5.049</td><td>5.050</td><td>5.050</td></tr><tr><td>3.2</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.049</td><td>5.049</td></tr><tr><td>4.0</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.049</td><td>5.049</td></tr><tr><td>4.8</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.049</td><td>5.049</td></tr><tr><td>5.6</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.049</td></tr><tr><td>6.4</td><td>- ※1</td><td>5.048</td><td>5.048</td><td>5.048</td><td>5.049</td></tr><tr><td>8.0</td><td>- ※1</td><td>- ※2</td><td>5.048</td><td>5.048</td><td>5.048</td></tr><tr><td>8.8</td><td>- ※1</td><td>- ※2</td><td>5.048</td><td>5.048</td><td>5.048</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Output Voltage [V]					Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	5.050	5.049	5.050	5.051	5.051	1.6	5.049	5.049	5.049	5.050	5.050	3.2	5.048	5.048	5.048	5.049	5.049	4.0	5.048	5.048	5.048	5.049	5.049	4.8	5.048	5.048	5.048	5.049	5.049	5.6	5.048	5.048	5.048	5.048	5.049	6.4	- ※1	5.048	5.048	5.048	5.049	8.0	- ※1	- ※2	5.048	5.048	5.048	8.8	- ※1	- ※2	5.048	5.048	5.048	--	-	-	-	-	-	--	-	-	-	-	-
Load Current [A]	Output Voltage [V]																																																																																	
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]																																																																													
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1.6	5.049	5.049	5.049	5.050	5.050																																																																													
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Note: Slanted line shows the range of the rated load current.				<div>※1 Maximum output current at minimum input Voltage is 70% of rated load current.</div> <div>※2 Maximum output current at 12V input Voltage is 80% of rated load current.</div> <div>Refer to instruction manuals for details of input derating.</div>																																																																														

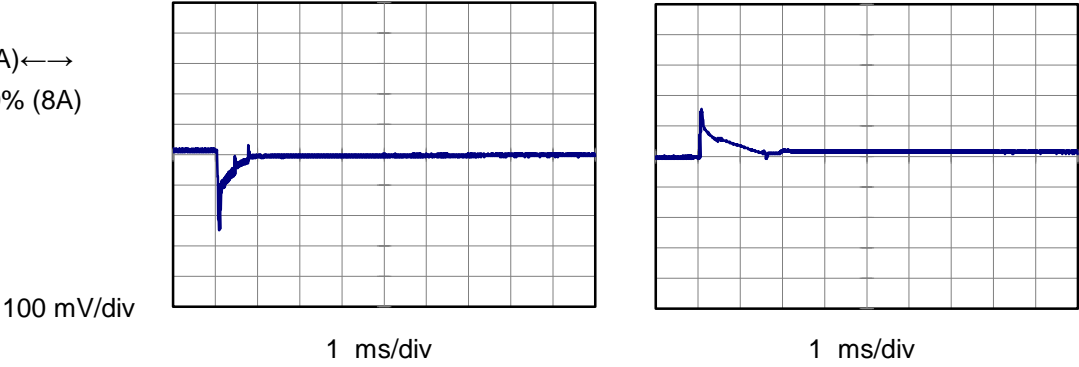


Model		MGFS402405	
Item		Dynamic Load Response	Temperature 25°C Testing Circuitry Figure A
Object		+5V8A	

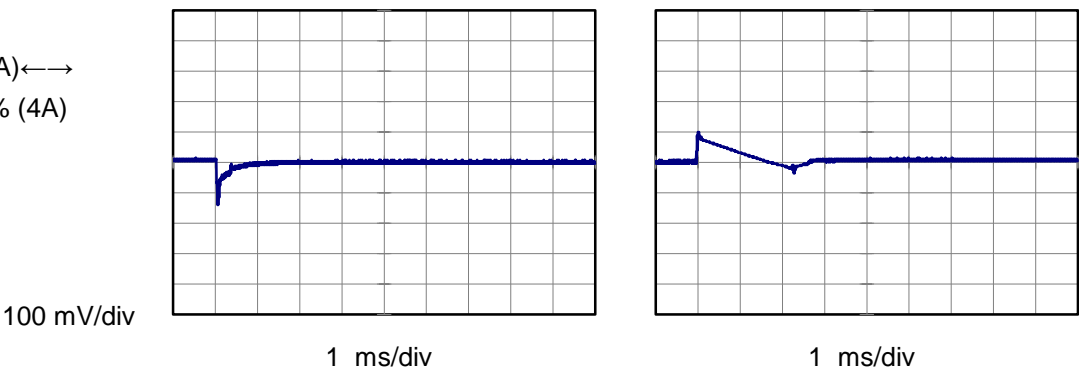
Input Volt. 24 V
Cycle 100 ms



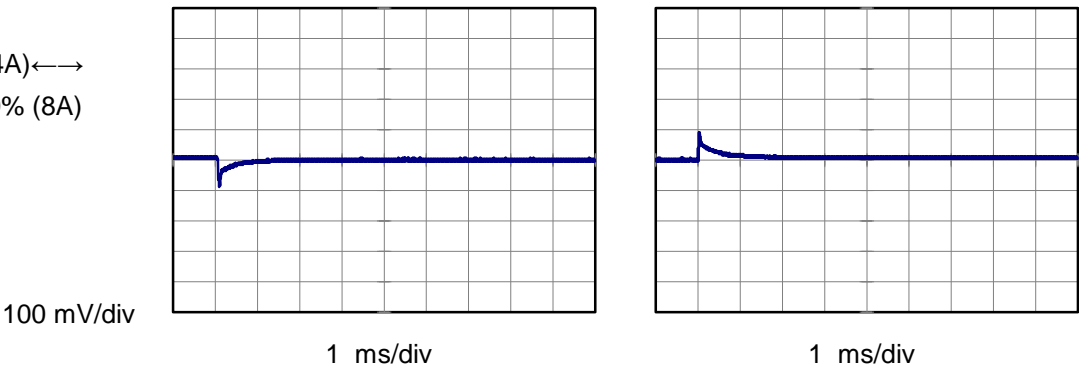
Min.Load (0A)←→
Load 100% (8A)



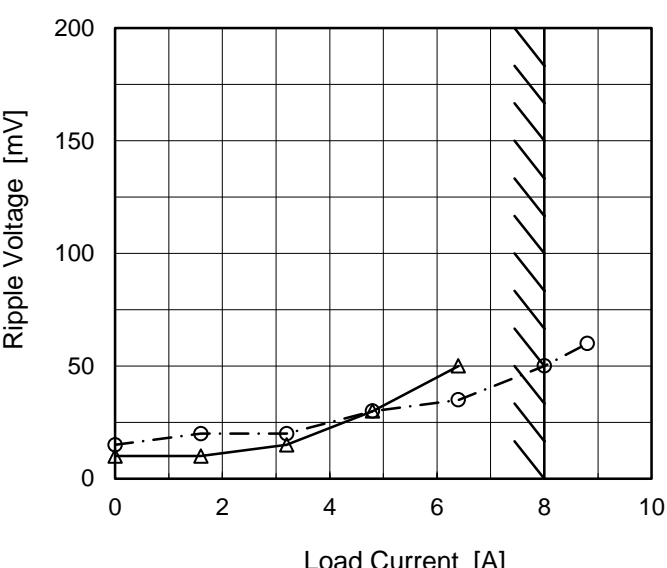
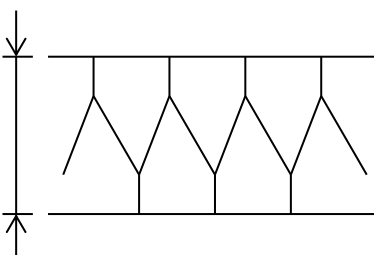
Min.Load (0A)←→
Load 50% (4A)




Load 50% (4A)←→
Load 100% (8A)

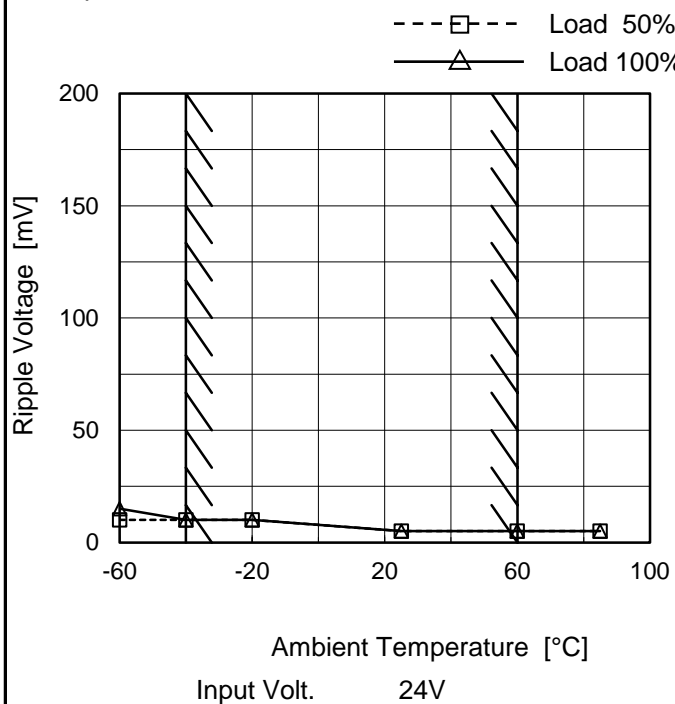


Model		MGFS402405		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure B																																							
Object		+5V8A																																									
1.Graph				2.Values																																							
<div><div><div>—△— Input Volt. 9V</div><div>- -○- - Input Volt. 36V</div></div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div> <div><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></div><p>Fig.Complex Ripple Wave Form</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. 36 [V]</th></tr><tr><td>0.00</td><td>5</td><td>10</td></tr><tr><td>1.6</td><td>5</td><td>5</td></tr><tr><td>3.2</td><td>5</td><td>5</td></tr><tr><td>4.8</td><td>15</td><td>5</td></tr><tr><td>6.4</td><td>35</td><td>10</td></tr><tr><td>8.0</td><td>- ※</td><td>10</td></tr><tr><td>8.8</td><td>- ※</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></table> <p>※ Maximum output current at minimum input Voltage is 70% of rated load current. Refer to instruction manuals for details of input derating.</p>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 9 [V]	Input Volt. 36 [V]	0.00	5	10	1.6	5	5	3.2	5	5	4.8	15	5	6.4	35	10	8.0	- ※	10	8.8	- ※	10	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																										
	Input Volt. 9 [V]	Input Volt. 36 [V]																																									
0.00	5	10																																									
1.6	5	5																																									
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8.0	- ※	10																																									
8.8	- ※	10																																									
--	-	-																																									
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Model		MGFS402405		Temperature 25°C																																							
Item		Ripple-Noise		Testing Circuitry Figure B																																							
Object		+5V8A																																									
1.Graph				2.Values																																							
<div><div><div>△</div><div>Input Volt.</div><div>9V</div></div><div><div>○</div><div>Input Volt.</div><div>36V</div></div></div>  <p>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.</p> <div><p>Ripple Noise[mVp-p]</p></div> <p>Fig.Complex Ripple Noise Wave Form</p>				<table><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. 36 [V]</th></tr><tr><td>0.00</td><td>10</td><td>15</td></tr><tr><td>1.6</td><td>10</td><td>20</td></tr><tr><td>3.2</td><td>15</td><td>20</td></tr><tr><td>4.8</td><td>30</td><td>30</td></tr><tr><td>6.4</td><td>50</td><td>35</td></tr><tr><td>8.0</td><td>- ※</td><td>50</td></tr><tr><td>8.8</td><td>- ※</td><td>60</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> <p>※ Maximum output current at minimum input Voltage is 70% of rated load current. Refer to instruction manuals for details of input derating.</p>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 9 [V]	Input Volt. 36 [V]	0.00	10	15	1.6	10	20	3.2	15	20	4.8	30	30	6.4	50	35	8.0	- ※	50	8.8	- ※	60	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																										
	Input Volt. 9 [V]	Input Volt. 36 [V]																																									
0.00	10	15																																									
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--	-	-																																									

	
Model	MGFS402405
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V8A

1.Graph



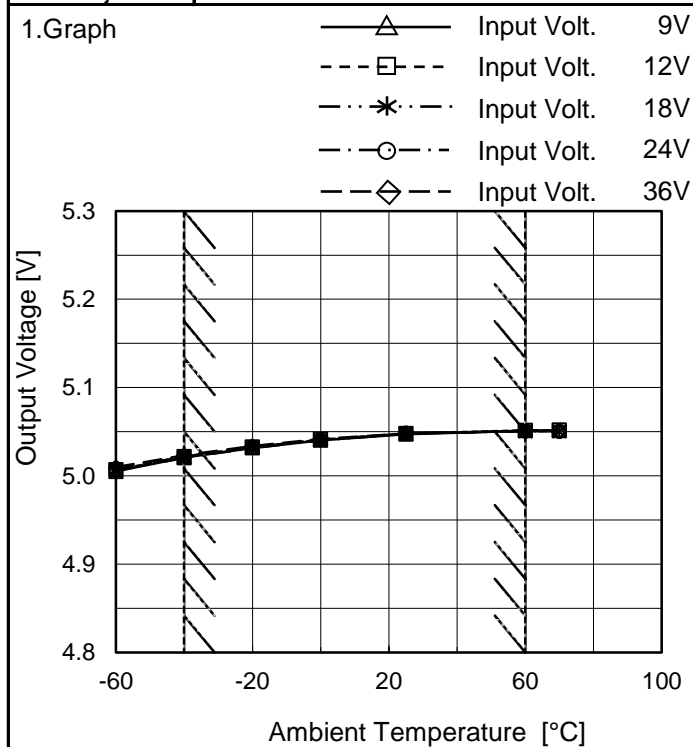
Measured by 100 MHz Oscilloscope.

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

2.Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	10	15
-40	10	10
-20	10	10
25	5	5
60	5	5
85	5	5
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--

Model	MGFS402405
Item	Ambient Temperature Drift
Object	+5V8A



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]	Input Volt. 24[V]	Input Volt. 36[V]
-60	5.005	5.007	5.006	5.008	5.010
-40	5.021	5.022	5.020	5.022	5.023
-20	5.032	5.032	5.031	5.033	5.034
0	5.040	5.041	5.040	5.041	5.042
25	5.047	5.048	5.048	5.048	5.048
60	5.051	5.051	5.050	5.051	5.051
70	5.051	5.052	5.050	5.050	5.050
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-

Note: In case of input Volt.9V, Load 70%.
 12V, Load 80%.
 Other case Load 100%.



Model		MGFS402405	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+5V8A	

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 - 36V

Load Current : 0 - 8A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	60	9	0	5.054	±17	±0.3
Minimum Voltage	-40	18	8	5.020		

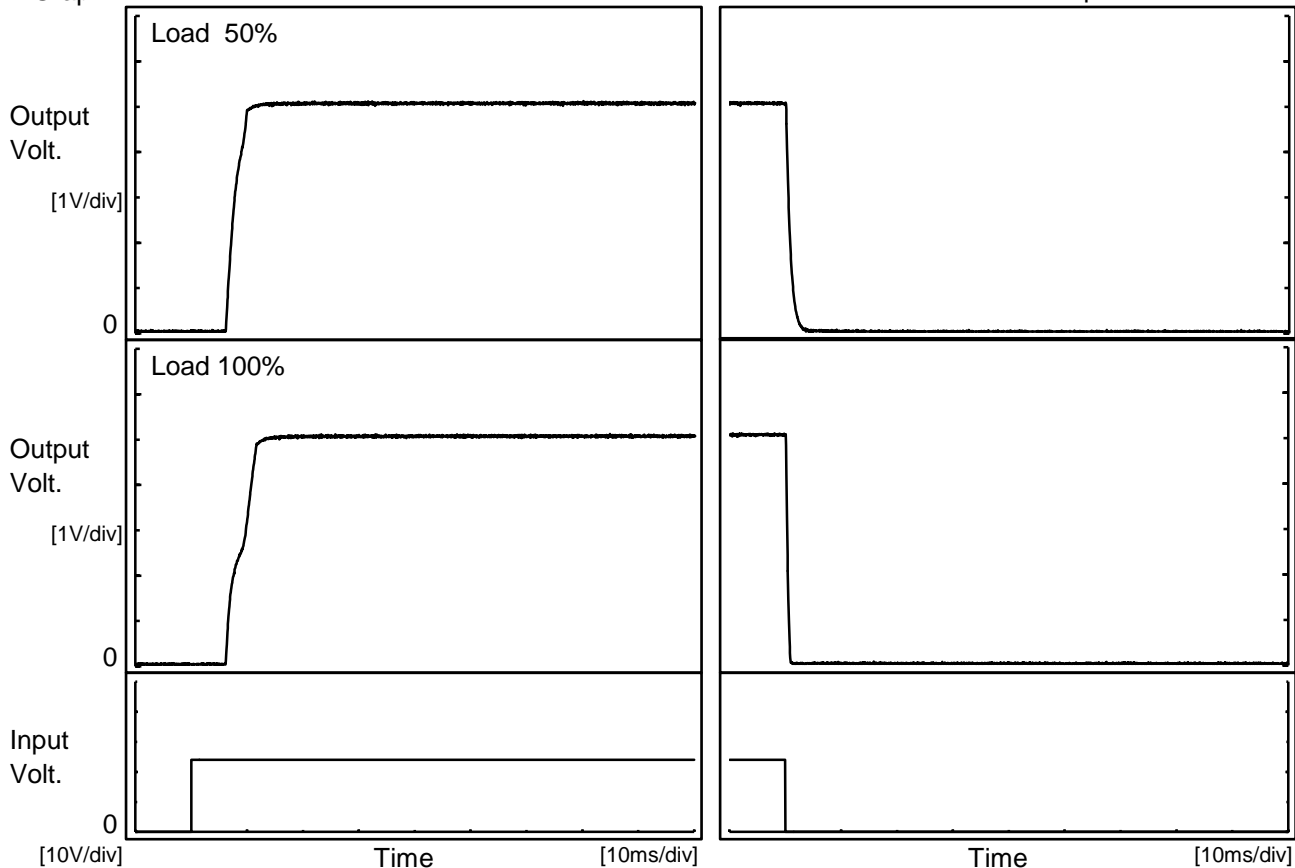


Model	MGFS402405																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+5V8A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><div><div>Output Voltage [V]</div><div><div>5.3</div><div>5.2</div><div>5.1</div><div>5.0</div><div>4.9</div><div>4.8</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div>Time [H]</div></div><div><div>Input Volt.</div><div>24V</div><div>Load</div><div>100%</div></div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.048</td></tr><tr><td>0.5</td><td>5.051</td></tr><tr><td>1.0</td><td>5.051</td></tr><tr><td>2.0</td><td>5.051</td></tr><tr><td>3.0</td><td>5.051</td></tr><tr><td>4.0</td><td>5.051</td></tr><tr><td>5.0</td><td>5.051</td></tr><tr><td>6.0</td><td>5.051</td></tr><tr><td>7.0</td><td>5.051</td></tr><tr><td>8.0</td><td>5.051</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.048	0.5	5.051	1.0	5.051	2.0	5.051	3.0	5.051	4.0	5.051	5.0	5.051	6.0	5.051	7.0	5.051	8.0	5.051
Time since start [H]	Output Voltage [V]																								
0.0	5.048																								
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5.0	5.051																								
6.0	5.051																								
7.0	5.051																								
8.0	5.051																								



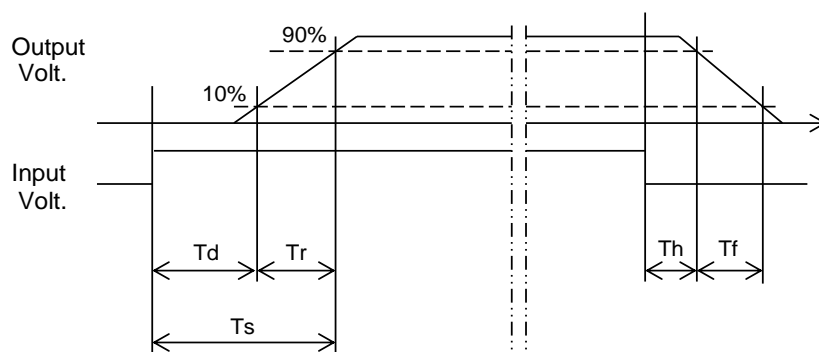
Model	MGFS402405	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V8A		


1.Graph



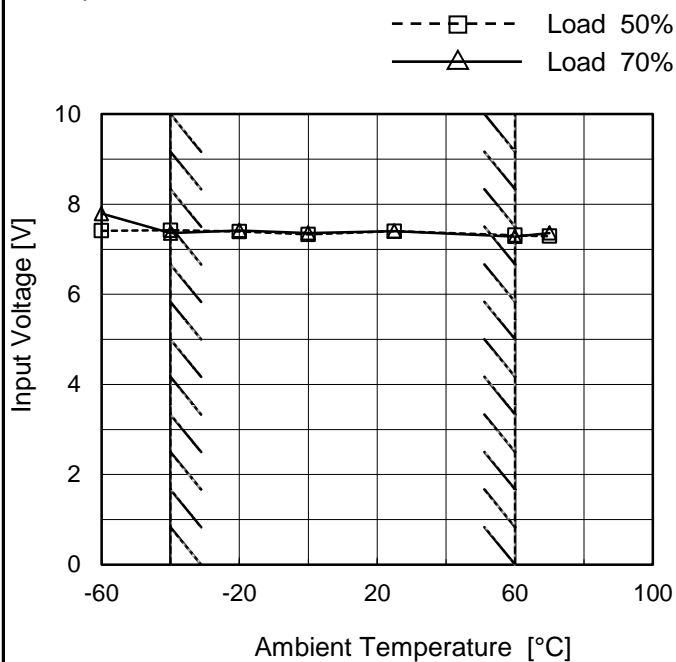
2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	6.4	3.3	9.7	0.2	1.6
100 %	6.4	4.9	11.3	0.2	0.6



	
Model	MGFS402405
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V8A

1.Graph

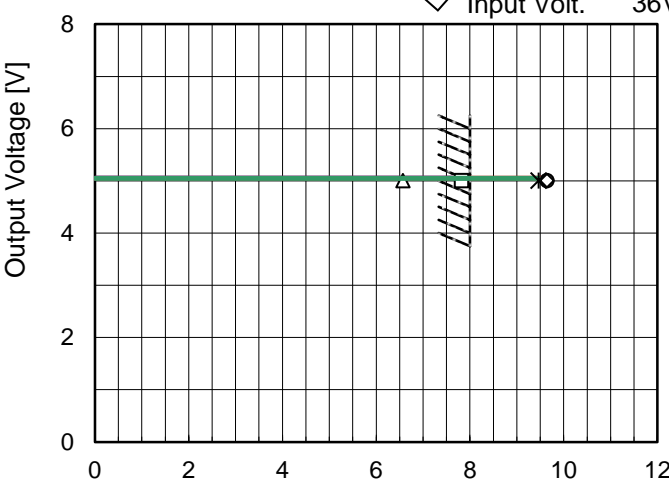


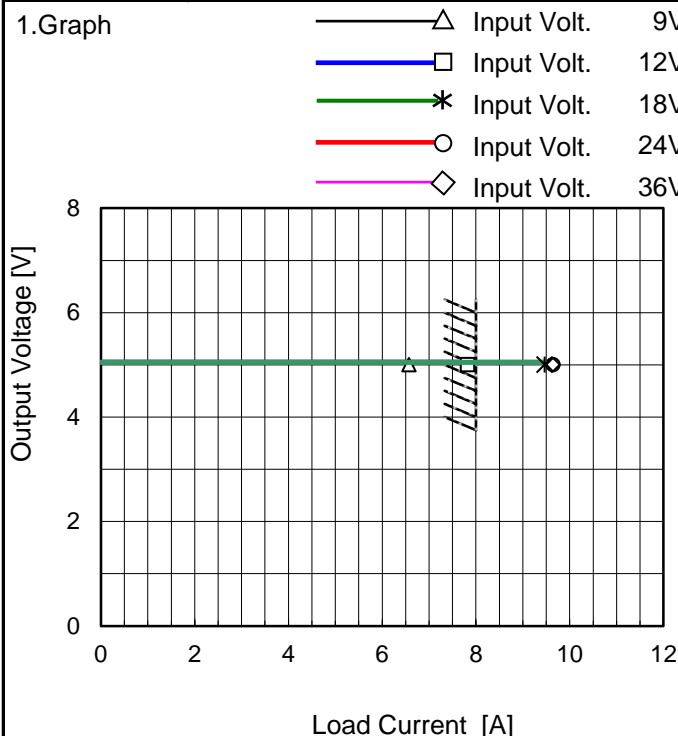
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 70%
-60	7.5	7.8
-40	7.5	7.4
-20	7.4	7.5
0	7.4	7.4
25	7.4	7.4
60	7.4	7.3
70	7.3	7.4
--	-	-
--	-	-
--	-	-
--	-	-

Model		MGFS402405		Temperature 25°C																																																																																				
Item		Overcurrent Protection		Testing Circuitry Figure A																																																																																				
Object		+5V8A																																																																																						
1.Graph		<div><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>																																																																																						
		Note: Slanted line shows the range of the rated load current.																																																																																						
		Intermittent operation activates when overcurrent protection is activated.																																																																																						
2.Values		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="5">Load Current [A]</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>5.00</td><td>6.575</td><td>7.821</td><td>9.465</td><td>9.644</td><td>9.645</td></tr><tr><td>4.75</td><td>- ※1</td><td>- ※2</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.50</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3.50</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>2.50</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>2.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.50</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]					Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	5.00	6.575	7.821	9.465	9.644	9.645	4.75	- ※1	- ※2	-	-	-	4.50	-	-	-	-	-	4.00	-	-	-	-	-	3.50	-	-	-	-	-	3.00	-	-	-	-	-	2.50	-	-	-	-	-	2.00	-	-	-	-	-	1.50	-	-	-	-	-	1.00	-	-	-	-	-	0.50	-	-	-	-	-	0.00	-	-	-	-	-		
Output Voltage [V]	Load Current [A]																																																																																							
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		Refer to instruction manuals for details of input derating.																																																																																						



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

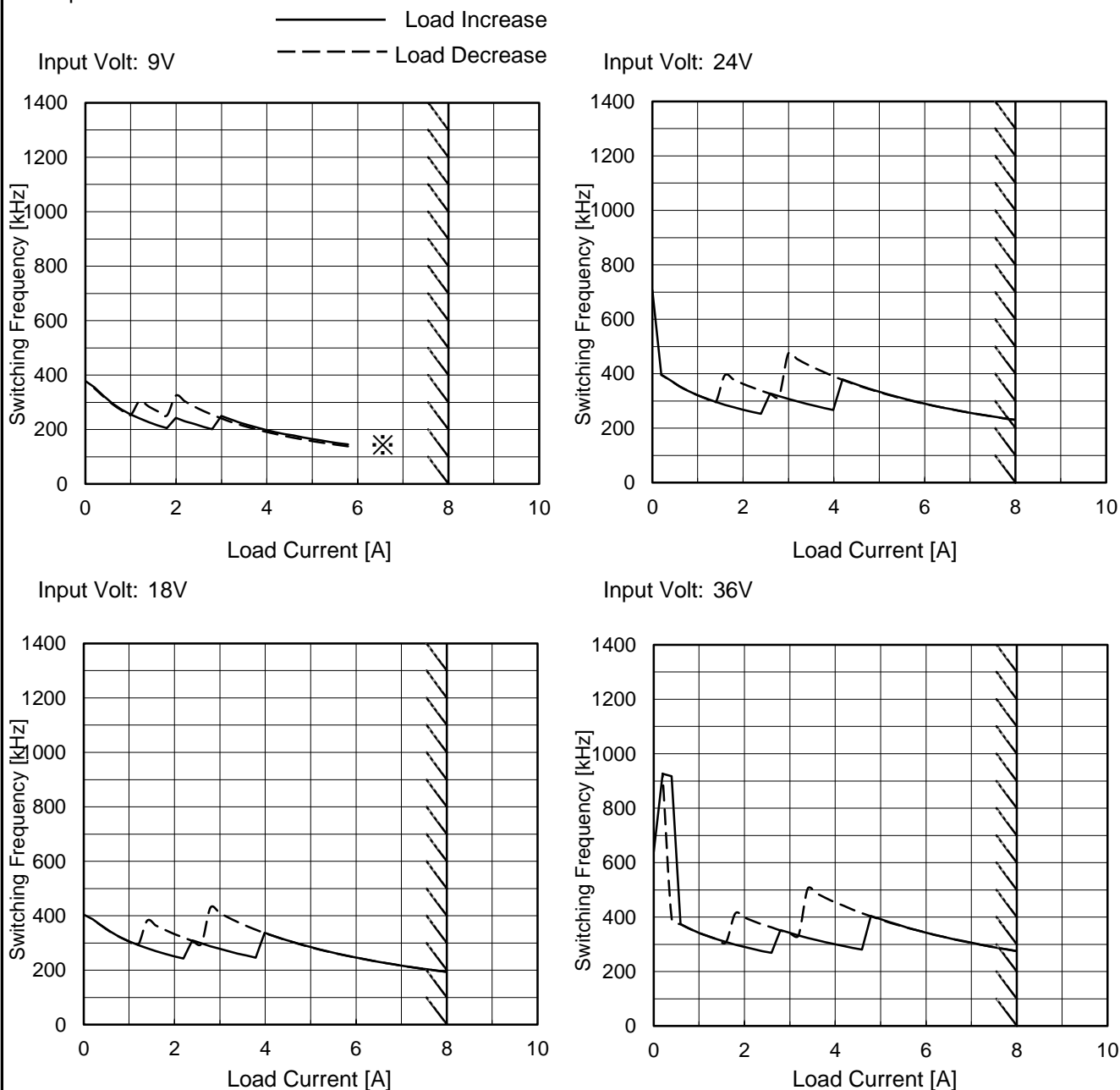
Intermittent operation activates when overcurrent protection is activated.

Model	MGFS402405		
Item	Overvoltage Protection	Temperature	25°C
Object	+5V8A	Testing Circuitry	Figure A
<p>1.Graph</p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□* </p> <p> △□*</p>			

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Model	MGFS402405	Temperature	25°C
Item	Switching frequency (by Load Current)	Testing Circuitry	Figure A
Object	+5V8A		

1. Graph



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

-switching frequency of MG40 changes depending on load current and input voltage.
When load current is low, switching frequency becomes high and step down to low frequency at certain point.
There is hysteresis, so characteristic is different between load increase (sweep from 0% to 100%) and load decrease (sweep from 100% to 0%).

-When load current is low, MG40 operates intermittently, so switching frequency can not be stable.

※ Maximum output current at minimum input Voltage is 70% of rated load current.

Refer to instruction manuals for details of input derating.

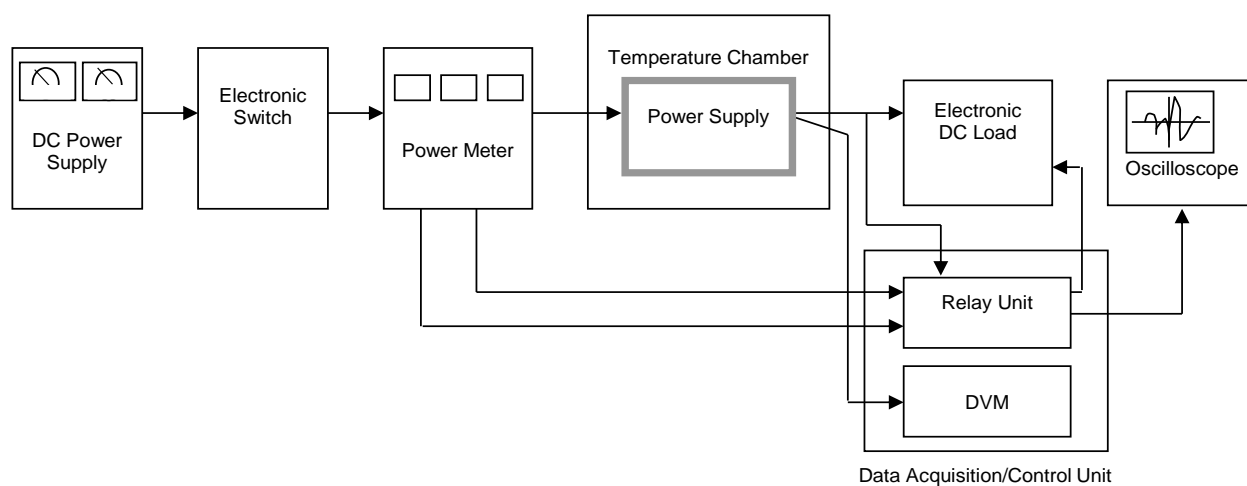


Figure A

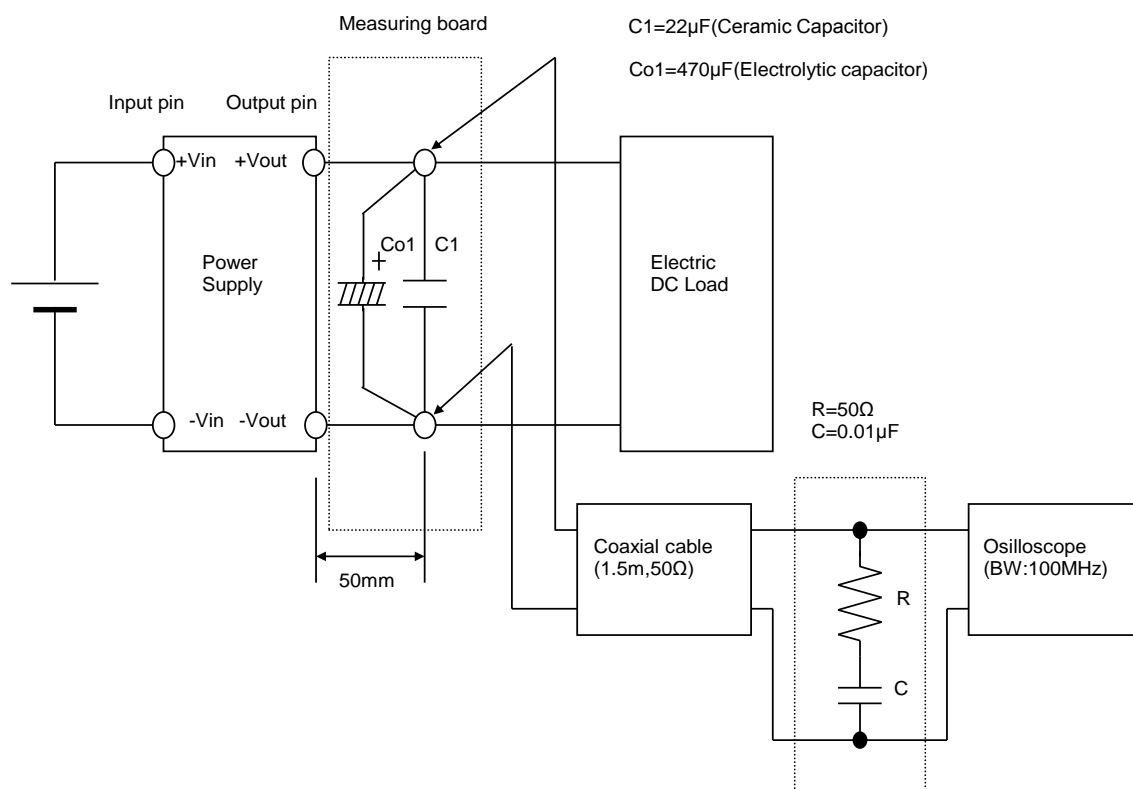


Figure B (Ripple and Ripple noise Characteristic)