



TEST DATA OF MGS32405

Regulated DC Power Supply
March 30, 2016

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Shohei Mukaide Design Engineer

COSEL CO.,LTD.



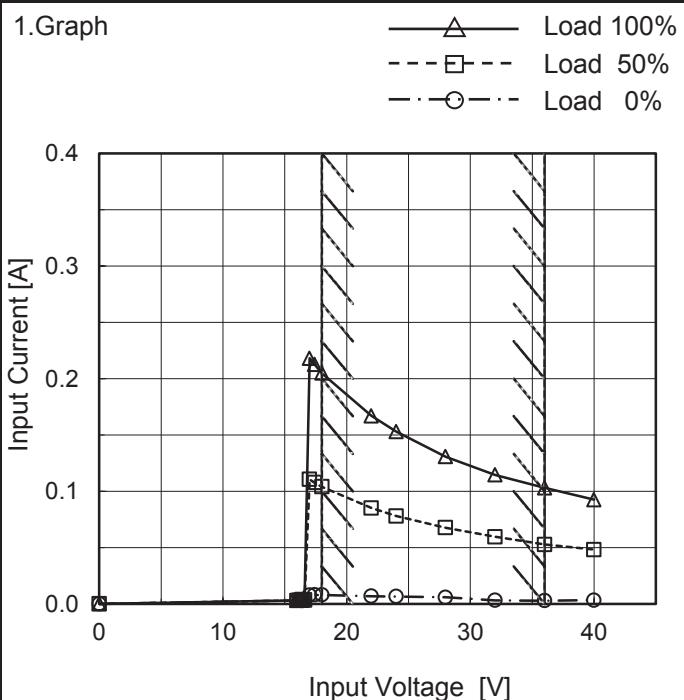
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Model	MGS32405
Item	Input Current (by Input Voltage)
Object	_____



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

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
16.0	0.003	0.003	0.003
16.2	0.003	0.003	0.003
16.4	0.003	0.004	0.003
16.6	0.004	0.003	0.004
17.0	0.008	0.111	0.218
17.4	0.008	0.108	0.213
18.0	0.008	0.104	0.205
22.0	0.007	0.085	0.167
24.0	0.007	0.078	0.153
28.0	0.006	0.068	0.131
32.0	0.003	0.060	0.115
36.0	0.003	0.053	0.103
40.0	0.003	0.048	0.093
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Model	MGS32405																																																					
Item	Input Current (by Load Current)	Temperature	25°C																																																			
Object		Testing Circuitry	Figure A																																																			
1.Graph	<p>—△— Input Volt. 18V - -□--- Input Volt. 24V - -○--- Input Volt. 36V</p>	2.Values																																																				
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Model	MGS32405		
Item	Input Power (by Load Current)	Temperature Testing Circuitry	25°C Figure A
Object	_____		
1.Graph	—△— Input Volt. 18V - -□--- Input Volt. 24V - ·○--- Input Volt. 36V		
<p>The graph plots Input Power [W] on the y-axis (0 to 5) against Load Current [A] on the x-axis (0.0 to 0.8). Three curves are shown for input voltages of 18V, 24V, and 36V. The 18V curve starts at (0,0) and ends at approximately (0.65, 4.1). The 24V curve starts at (0,0) and ends at approximately (0.6, 3.7). The 36V curve starts at (0,0) and ends at approximately (0.55, 3.3). A slanted line is drawn through the origin, passing through the points (0.5, 0.8) and (0.6, 1.3), representing the rated load current range.</p>			
2.Values			
Load Current [A]	Input Power [W]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	0.15	0.18	0.18
0.12	0.85	0.87	0.92
0.24	1.54	1.55	1.60
0.36	2.25	2.25	2.32
0.48	2.98	2.97	2.98
0.60	3.69	3.67	3.75
0.66	4.08	4.05	4.06
--	-	-	-
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Note: Slanted line shows the range of the rated load current.

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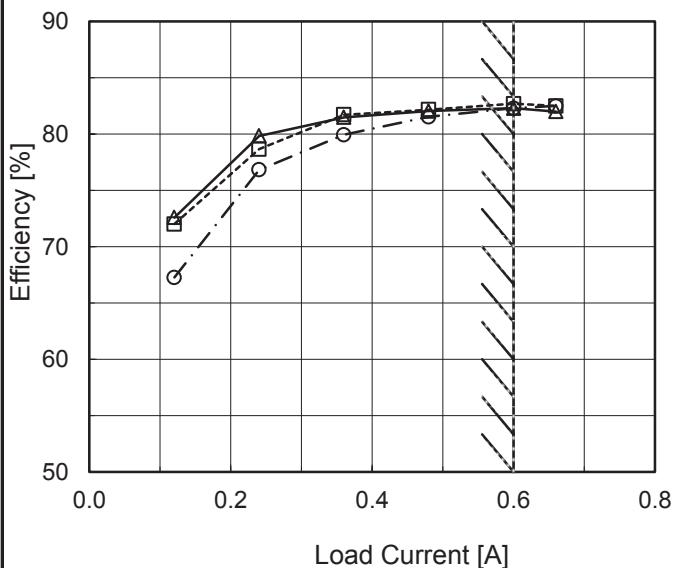
Model	MGS32405	Temperature	25°C																																
Item	Efficiency (by Input Voltage)	Testing Circuitry	Figure A																																
Object																																			
1.Graph	<p>The graph plots Efficiency [%] on the y-axis (50 to 90) against Input Voltage [V] on the x-axis (10 to 40). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a general downward trend as input voltage increases. Two vertical slanted lines are drawn across the graph, indicating the range of the rated input voltage.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>17</td><td>80.9</td><td>82.1</td></tr> <tr><td>18</td><td>81.1</td><td>82.3</td></tr> <tr><td>20</td><td>81.0</td><td>82.8</td></tr> <tr><td>24</td><td>80.6</td><td>82.7</td></tr> <tr><td>30</td><td>79.8</td><td>82.5</td></tr> <tr><td>36</td><td>78.8</td><td>82.3</td></tr> <tr><td>40</td><td>78.4</td><td>82.1</td></tr> </tbody> </table>			Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	17	80.9	82.1	18	81.1	82.3	20	81.0	82.8	24	80.6	82.7	30	79.8	82.5	36	78.8	82.3	40	78.4	82.1								
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Model	MGS32405
Item	Efficiency (by Load Current)
Object	_____

1.Graph

—△— Input Volt. 18V
 - - -□--- Input Volt. 24V
 - - ○ - - Input Volt. 36V



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

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Efficiency [%]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	-	-	-
0.12	72.6	72.0	67.3
0.24	79.8	78.7	76.8
0.36	81.5	81.7	79.9
0.48	82.0	82.2	81.5
0.60	82.3	82.7	82.3
0.66	82.0	82.5	82.5
--	-	-	-
--	-	-	-
--	-	-	-
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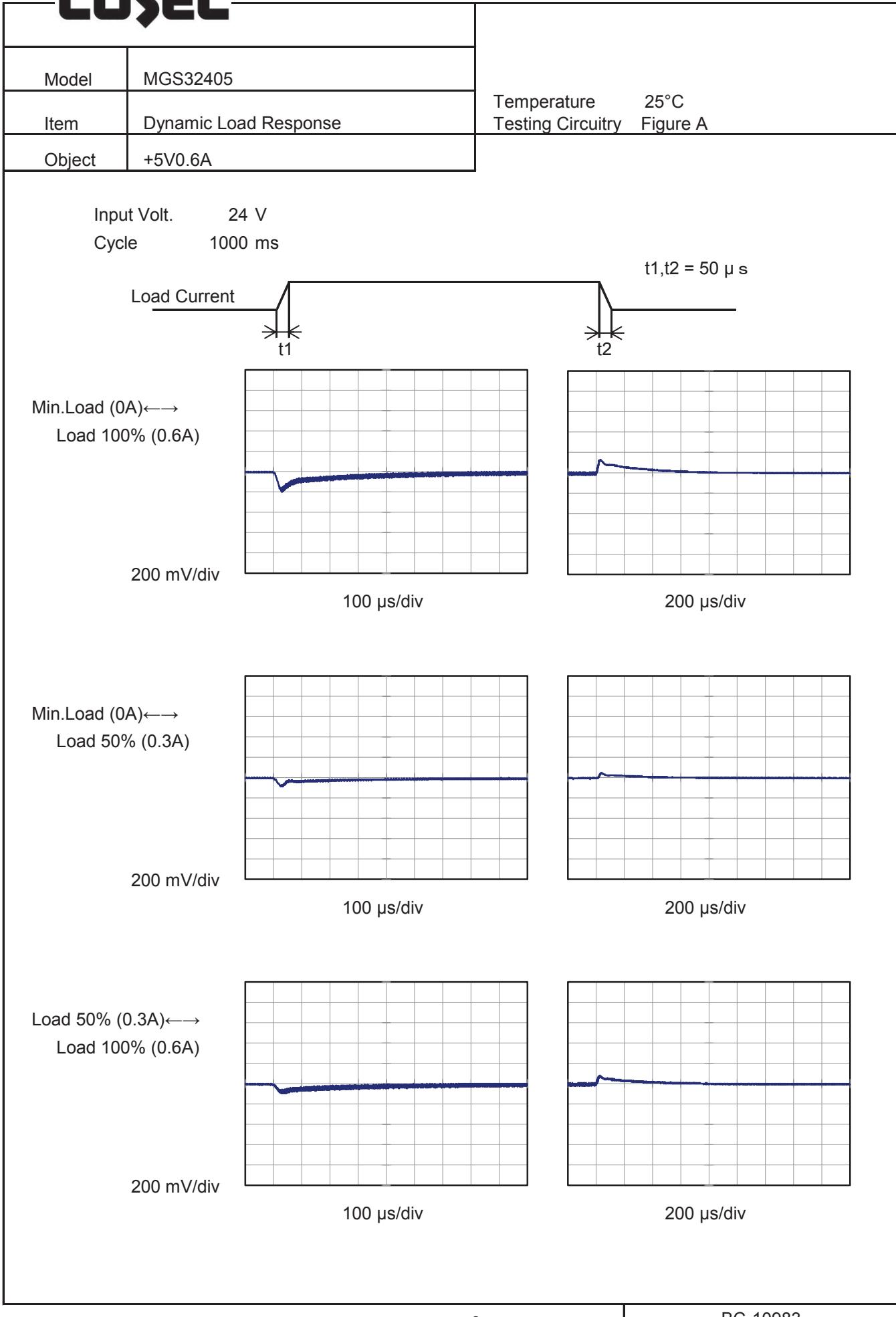
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Note: Slanted line shows the range of the rated input voltage.

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

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Model	MGS32405																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure B																																						
Object	+5V0.6A																																							
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<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 400 mV, and the X-axis ranges from 0 to 0.8 A. Two curves are plotted: one for Input Volt. 18V (solid line with triangle markers) and one for Input Volt. 36V (dashed line with circle markers). Both curves show an increase in ripple voltage as load current increases. A slanted line indicates the range of the rated load current.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Voltage [mV] (18V)</th> <th>Ripple Voltage [mV] (36V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>5</td><td>10</td></tr> <tr><td>0.12</td><td>10</td><td>10</td></tr> <tr><td>0.24</td><td>20</td><td>15</td></tr> <tr><td>0.36</td><td>35</td><td>30</td></tr> <tr><td>0.48</td><td>50</td><td>35</td></tr> <tr><td>0.60</td><td>80</td><td>45</td></tr> <tr><td>0.66</td><td>85</td><td>50</td></tr> </tbody> </table>			Load Current [A]	Ripple Voltage [mV] (18V)	Ripple Voltage [mV] (36V)	0.00	5	10	0.12	10	10	0.24	20	15	0.36	35	30	0.48	50	35	0.60	80	45	0.66	85	50														
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<p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																								

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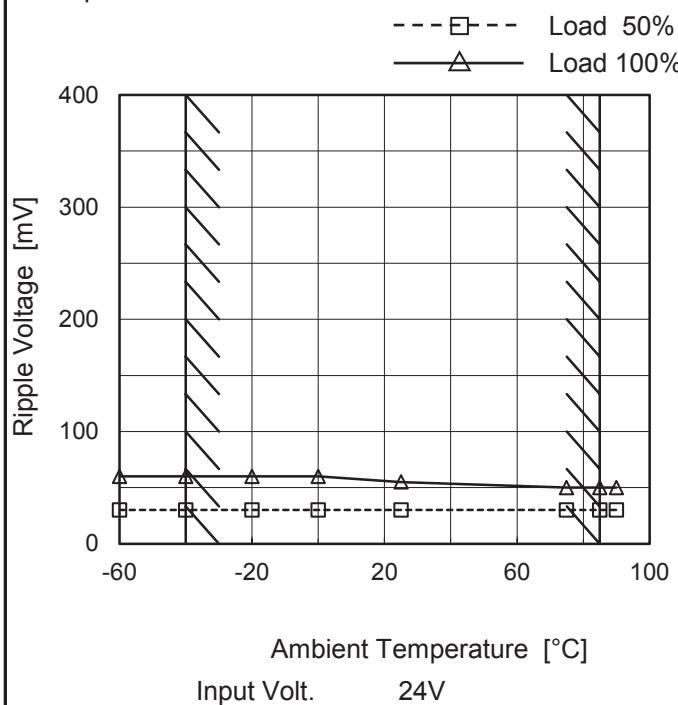
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0.60	85	50																																			
0.66	90	55																																			
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<p>Measured by 100 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>		<p>Ripple Noise[mVp-p]</p> <p>Fig.Complex Ripple Noise Wave Form</p>																																			

COSEL

Model	MGS32405
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V0.6A

Testing Circuitry Figure B

1.Graph



2.Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	30	60
-40	30	60
-20	30	60
0	30	60
25	30	55
75	30	50
85	30	50
90	30	50
--	-	-
--	-	-
--	-	-

Measured by 100 MHz Oscilloscope.

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

COSEL

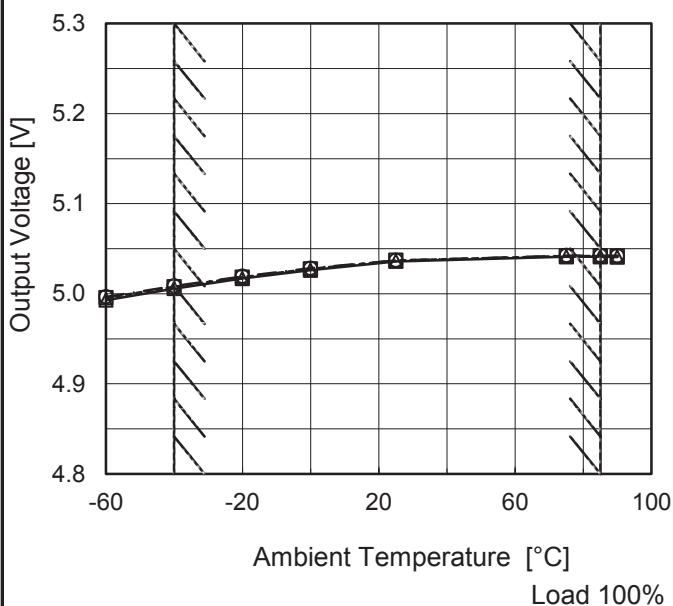
Model MGS32405

Item Ambient Temperature Drift

Object +5V0.6A

1.Graph

—△— Input Volt. 18V
 - - -□--- Input Volt. 24V
 - - ○ - - Input Volt. 36V



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. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
-60	4.993	4.995	4.997
-40	5.006	5.008	5.009
-20	5.017	5.018	5.019
0	5.026	5.028	5.028
25	5.036	5.037	5.037
75	5.041	5.042	5.042
85	5.041	5.042	5.042
90	5.041	5.042	5.042
--	-	-	-
--	-	-	-
--	-	-	-



Model	MGS32405	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V0.6A	

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 - 85°C

Input Voltage : 18 - 36V

Load Current : 0 - 0.6A

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

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

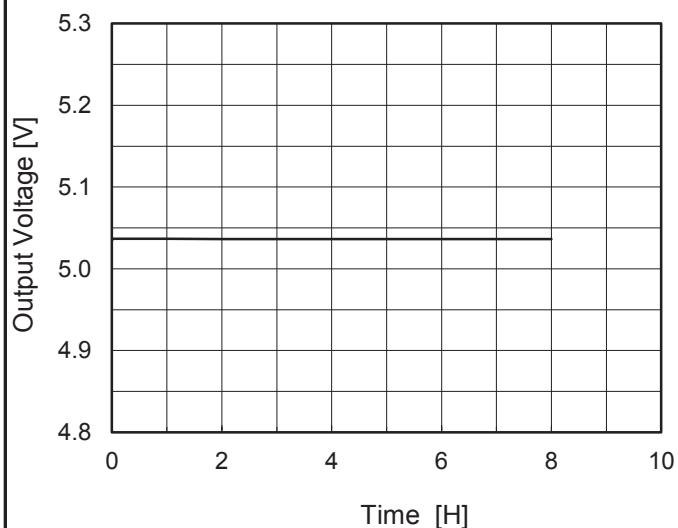
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	85	36	0	5.046	±20	±0.4
Minimum Voltage	-40	18	0.6	5.006		

COSEL

Model	MGS32405	Temperature	25°C
Item	Time Lapse Drift	Testing Circuitry	Figure A
Object	+5V0.6A		

1.Graph



Input Volt. 24V
Load 100%

2.Values

Time since start [H]	Output Voltage [V]
0.0	5.035
0.5	5.037
1.0	5.037
2.0	5.037
3.0	5.036
4.0	5.036
5.0	5.036
6.0	5.036
7.0	5.036
8.0	5.036

COSEL

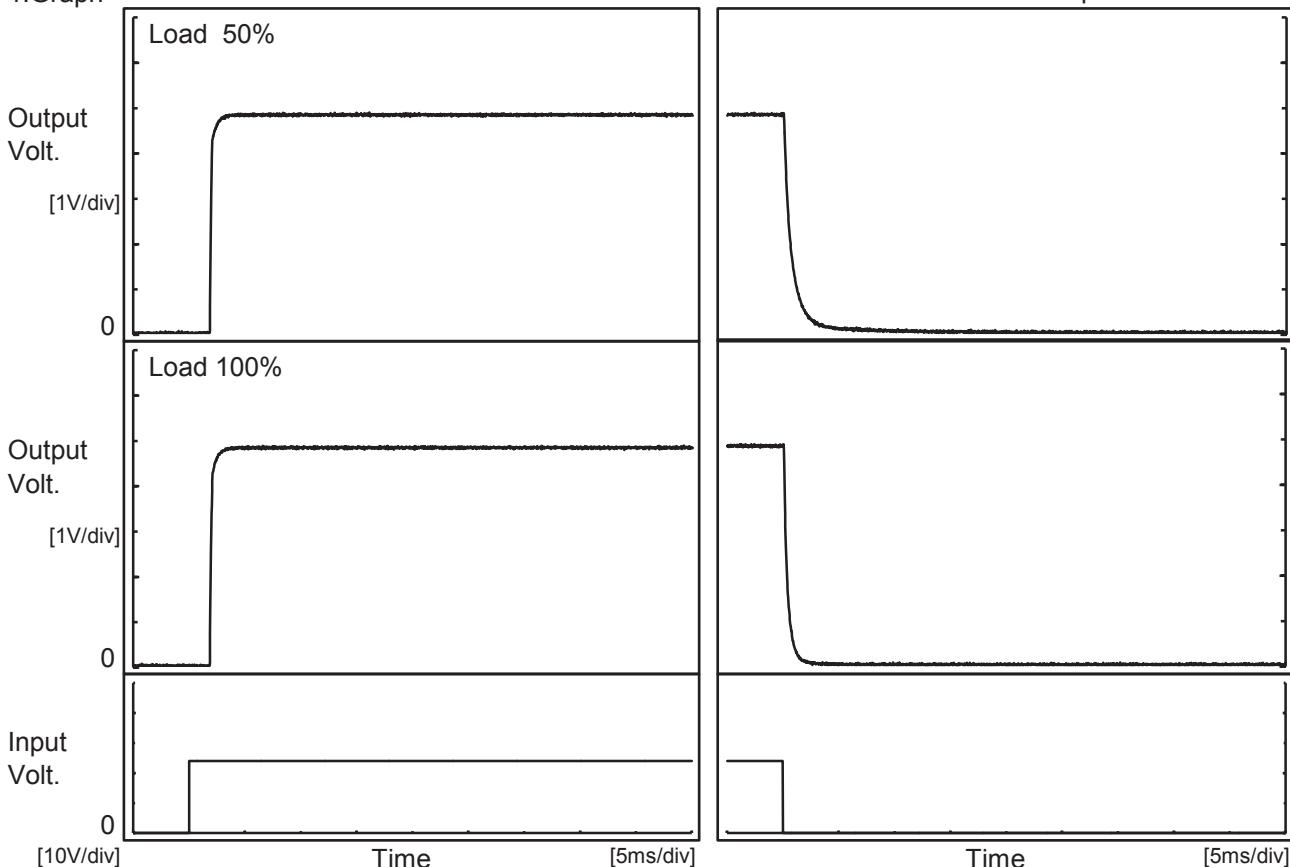
Model MGS32405

Temperature 25°C
Testing Circuitry Figure A

Object +5V0.6A

1. Graph

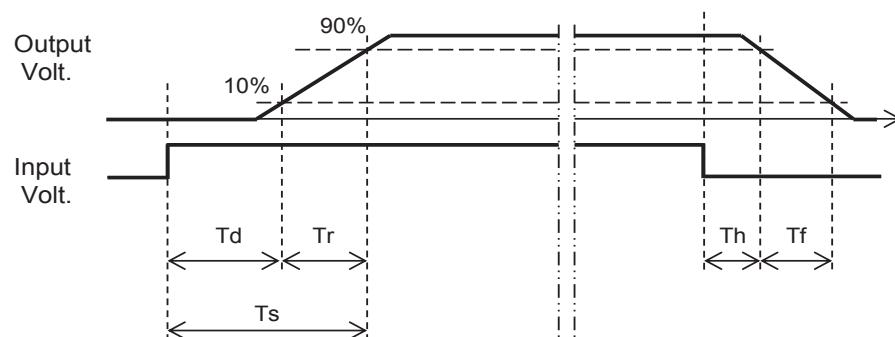
Input Volt. 24 V



2. Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1.9	0.5	2.4	0.1	1.8
100 %	1.9	0.5	2.4	0.1	0.8

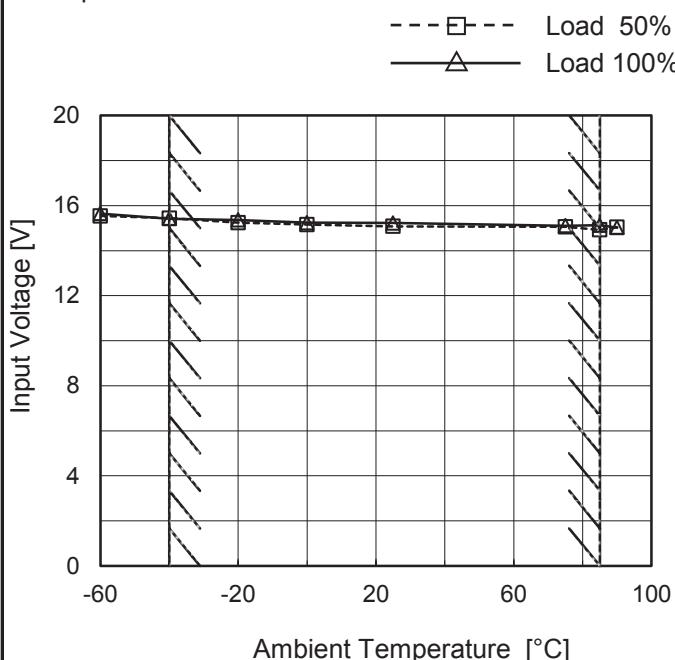


COSEL

Model	MGS32405
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V0.6A

Testing Circuitry Figure A

1. Graph



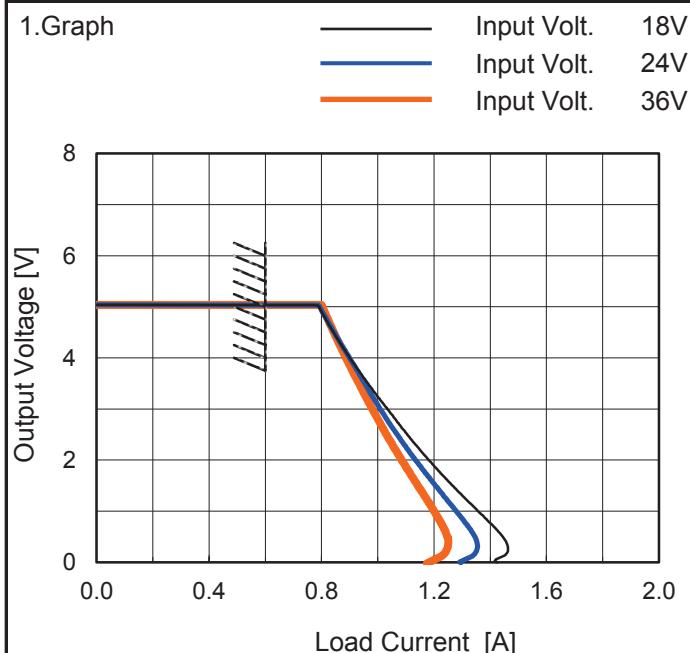
Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	15.6	15.7
-40	15.5	15.5
-20	15.3	15.4
0	15.2	15.3
25	15.1	15.3
75	15.1	15.2
85	15.0	15.2
90	15.1	15.1
--	-	-
--	-	-
--	-	-

COSEL

Model	MGS32405
Item	Overcurrent Protection
Object	+5V0.6A



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

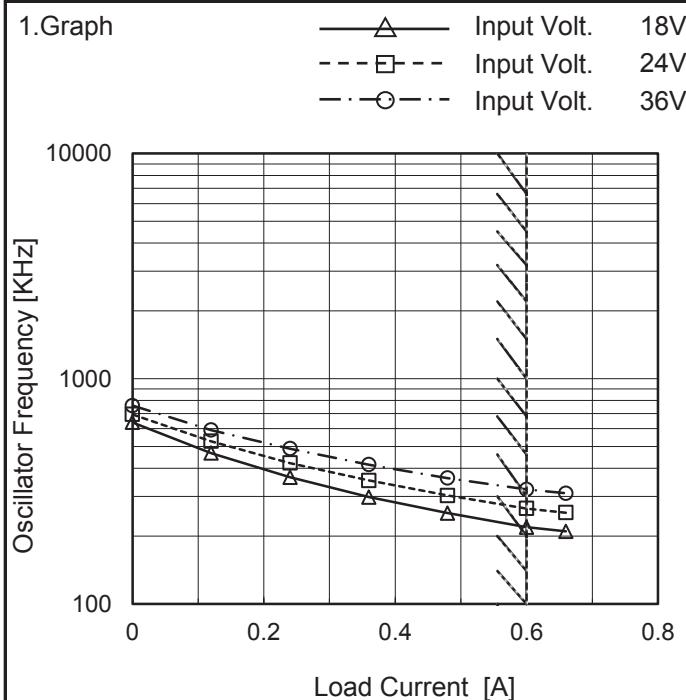
Temperature 25°C
Testing Circuitry Figure A

2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
5.00	0.62	0.62	0.62
4.75	0.82	0.82	0.82
4.50	0.84	0.84	0.84
4.00	0.90	0.90	0.89
3.50	0.96	0.95	0.93
3.00	1.03	1.01	0.98
2.50	1.10	1.07	1.03
2.00	1.18	1.13	1.09
1.50	1.26	1.20	1.14
1.00	1.36	1.28	1.20
0.50	1.44	1.35	1.25
0.00	1.43	1.30	1.17

COSEL

Model	MGS32405
Item	Switching frequency (by Load Current)
Object	+5V0.6A


 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Frequency [kHz]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	640	694	760
0.12	467	527	591
0.24	365	422	489
0.36	298	353	415
0.48	253	303	362
0.60	219	265	322
0.66	210	254	310
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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

-When load current is low, MG operates intermittently, so switching frequency would not become constant.

