



TEST DATA OF MGS34805

Regulated DC Power Supply
August 19, 2016

Approved by : Takayuki Fukuda _____
Takayuki Fukuda Design Manager

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COSEL CO.,LTD.



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(Final Page 19)

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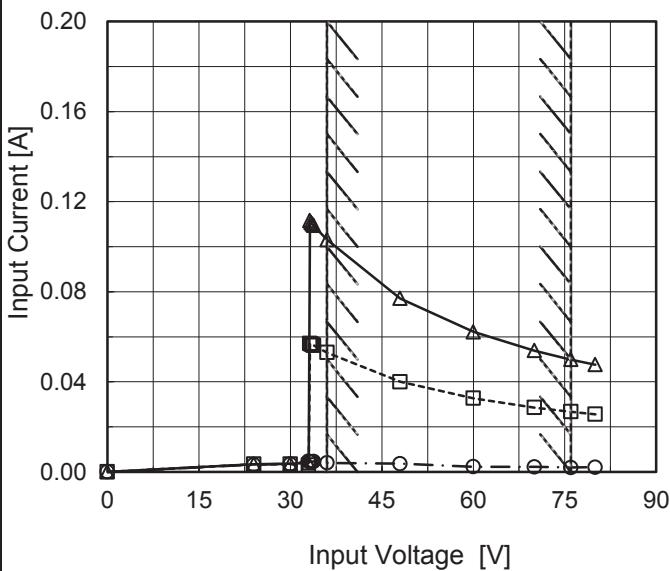
Model MGS34805

Item Input Current (by Input Voltage)

Object _____

1.Graph

—△— Load 100%
 - -□--- Load 50%
 - -○--- Load 0%



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

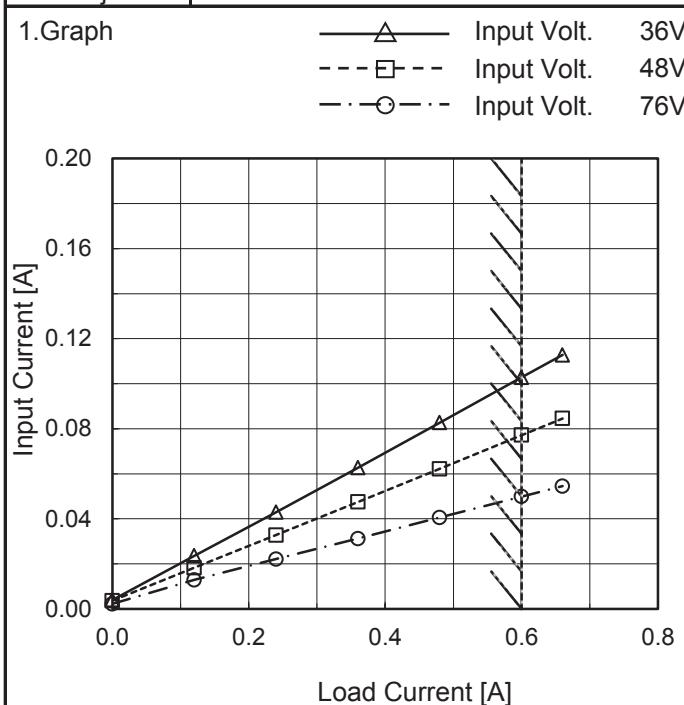
 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
24.0	0.003	0.003	0.003
30.0	0.004	0.003	0.004
33.0	0.005	0.003	0.004
33.2	0.005	0.057	0.112
33.4	0.005	0.057	0.111
33.6	0.005	0.057	0.110
33.8	0.005	0.056	0.109
36.0	0.004	0.053	0.103
48.0	0.004	0.040	0.077
60.0	0.002	0.033	0.062
70.0	0.002	0.029	0.054
76.0	0.002	0.027	0.050
80.0	0.002	0.026	0.048
--	-	-	-
--	-	-	-
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--	-	-	-

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Model	MGS34805
Item	Input Current (by Load Current)
Object	_____

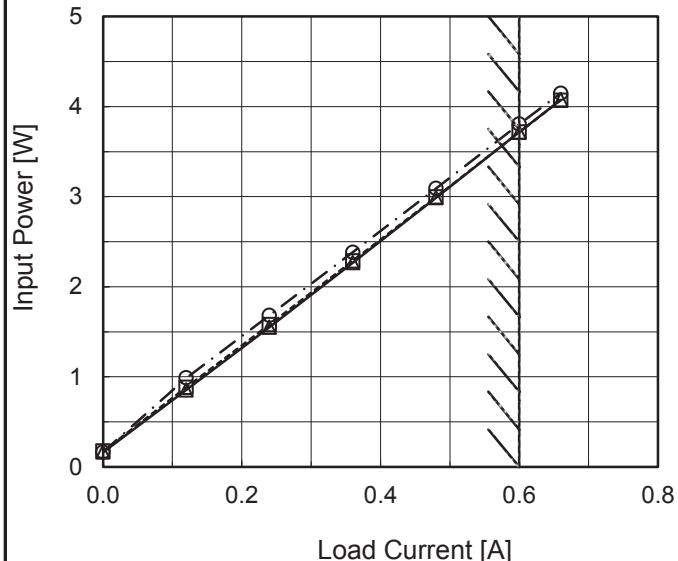

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	0.004	0.004	0.002
0.12	0.024	0.018	0.013
0.24	0.043	0.033	0.022
0.36	0.063	0.048	0.031
0.48	0.083	0.062	0.041
0.60	0.103	0.077	0.050
0.66	0.113	0.085	0.055
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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

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Model	MGS34805																																																					
Item	Input Power (by Load Current)	Temperature	25°C																																																			
Object		Testing Circuitry	Figure A																																																			
1.Graph	<p style="text-align: center;"> —△— Input Volt. 36V —□— Input Volt. 48V —○— Input Volt. 76V </p>  <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 different input voltages: 36V (solid line with triangle markers), 48V (dashed line with square markers), and 76V (dash-dot line with circle markers). All curves show a linear increase in power with load current. A slanted line is drawn across the graph, starting from approximately (0.1, 0.2) and ending at (0.65, 4.1), indicating the range of the rated load current.</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. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.16</td><td>0.17</td><td>0.17</td></tr> <tr><td>0.12</td><td>0.85</td><td>0.88</td><td>0.99</td></tr> <tr><td>0.24</td><td>1.55</td><td>1.58</td><td>1.68</td></tr> <tr><td>0.36</td><td>2.27</td><td>2.29</td><td>2.38</td></tr> <tr><td>0.48</td><td>2.99</td><td>3.00</td><td>3.09</td></tr> <tr><td>0.60</td><td>3.71</td><td>3.72</td><td>3.81</td></tr> <tr><td>0.66</td><td>4.07</td><td>4.07</td><td>4.15</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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.16	0.17	0.17	0.12	0.85	0.88	0.99	0.24	1.55	1.58	1.68	0.36	2.27	2.29	2.38	0.48	2.99	3.00	3.09	0.60	3.71	3.72	3.81	0.66	4.07	4.07	4.15	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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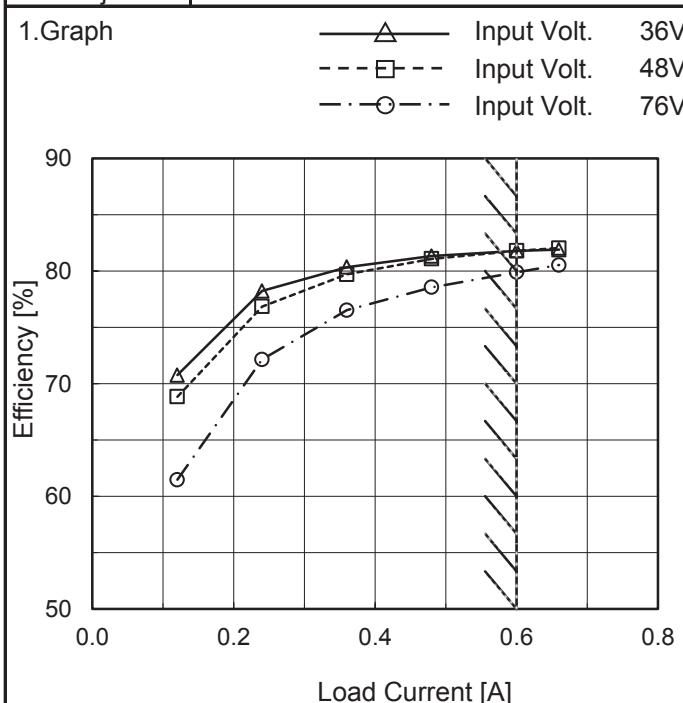
COSEL

Model	MGS34805	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 90) against Input Voltage [V] on the x-axis (30 to 90). 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. Vertical slanted lines indicate the rated input voltage range, which is approximately between 34V and 75V.</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>34</td> <td>79.9</td> <td>81.7</td> </tr> <tr> <td>36</td> <td>79.8</td> <td>81.8</td> </tr> <tr> <td>40</td> <td>79.7</td> <td>81.8</td> </tr> <tr> <td>48</td> <td>78.7</td> <td>81.8</td> </tr> <tr> <td>55</td> <td>77.9</td> <td>81.5</td> </tr> <tr> <td>60</td> <td>77.3</td> <td>81.0</td> </tr> <tr> <td>70</td> <td>75.6</td> <td>80.2</td> </tr> <tr> <td>76</td> <td>74.4</td> <td>79.9</td> </tr> <tr> <td>80</td> <td>73.9</td> <td>79.4</td> </tr> </tbody> </table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	34	79.9	81.7	36	79.8	81.8	40	79.7	81.8	48	78.7	81.8	55	77.9	81.5	60	77.3	81.0	70	75.6	80.2	76	74.4	79.9	80	73.9	79.4
Input Voltage [V]	Efficiency [%]																																		
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Note: Slanted line shows the range of the rated input voltage.

COSEL

Model	MGS34805
Item	Efficiency (by Load Current)
Object	_____


 Temperature 25°C
 Testing Circuitry Figure A

2.Values

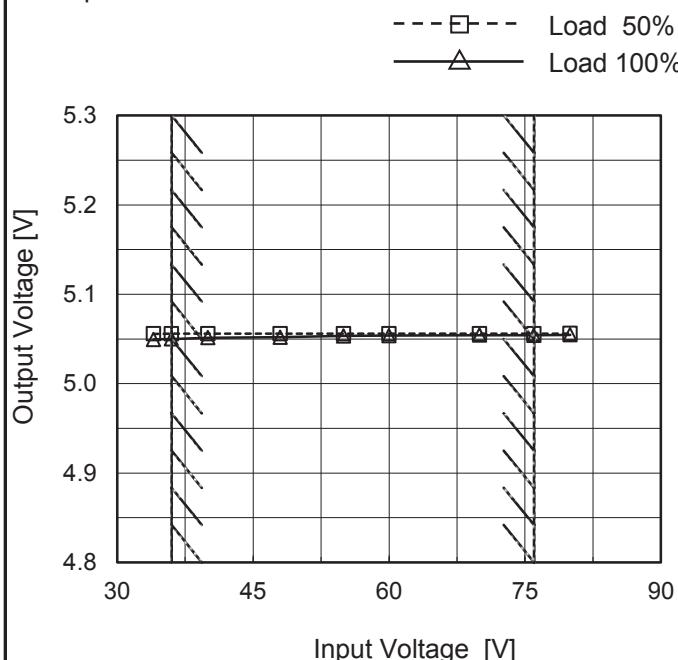
Load Current [A]	Efficiency [%]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	-	-	-
0.12	70.8	68.8	61.5
0.24	78.2	76.9	72.2
0.36	80.4	79.7	76.5
0.48	81.3	81.1	78.6
0.60	81.8	81.8	79.9
0.66	81.9	82.0	80.5
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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

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Model	MGS34805	Temperature	25°C
Item	Line Regulation	Testing Circuitry	Figure A
Object	+5V0.6A		

1.Graph



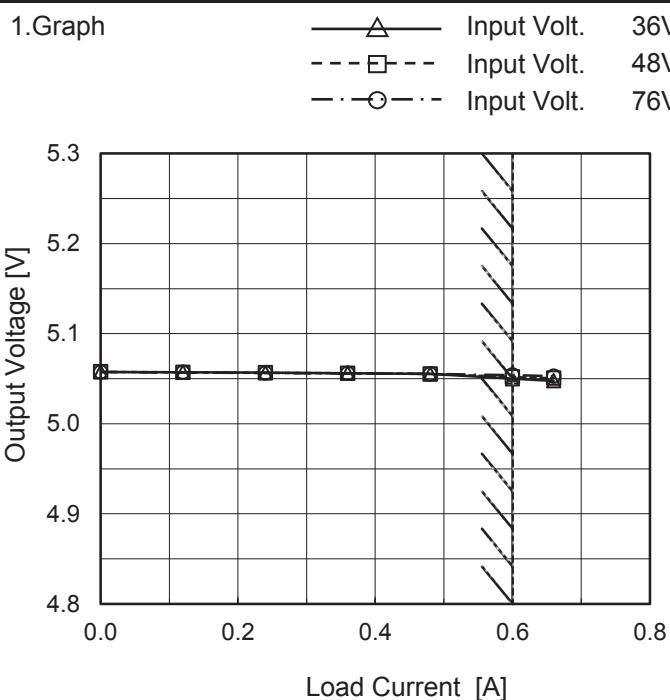
Note: Slanted line shows the range of the rated input voltage.

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
34	5.056	5.050
36	5.056	5.050
40	5.056	5.051
48	5.056	5.052
55	5.056	5.053
60	5.056	5.054
70	5.056	5.054
76	5.056	5.054
80	5.056	5.055

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Model	MGS34805
Item	Load Regulation
Object	+5V0.6A

 Temperature 25°C
 Testing Circuitry Figure A


2.Values

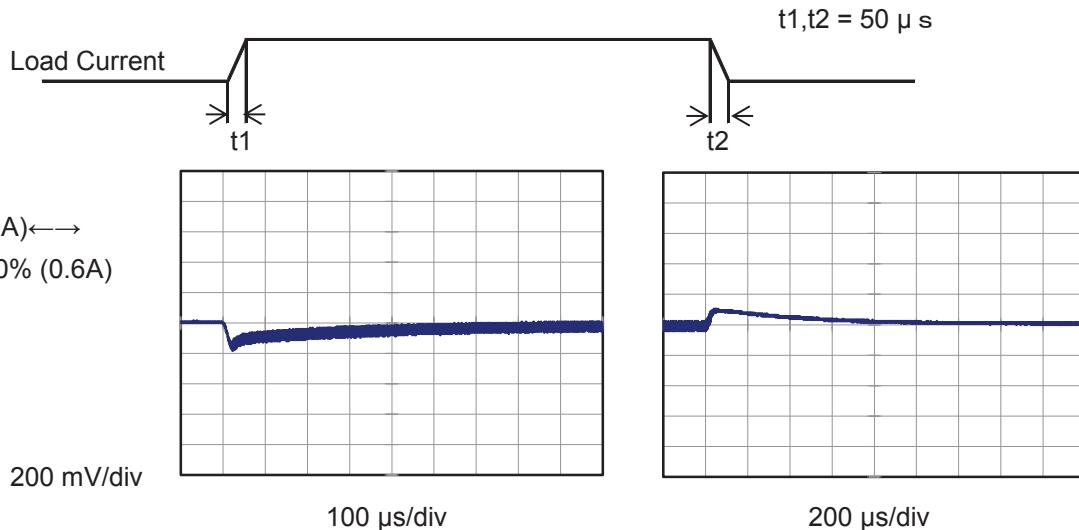
Load Current [A]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	5.058	5.058	5.058
0.12	5.057	5.057	5.057
0.24	5.057	5.057	5.056
0.36	5.056	5.056	5.056
0.48	5.055	5.055	5.055
0.60	5.050	5.052	5.054
0.66	5.048	5.051	5.053
--	-	-	-
--	-	-	-
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--	-	-	-

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

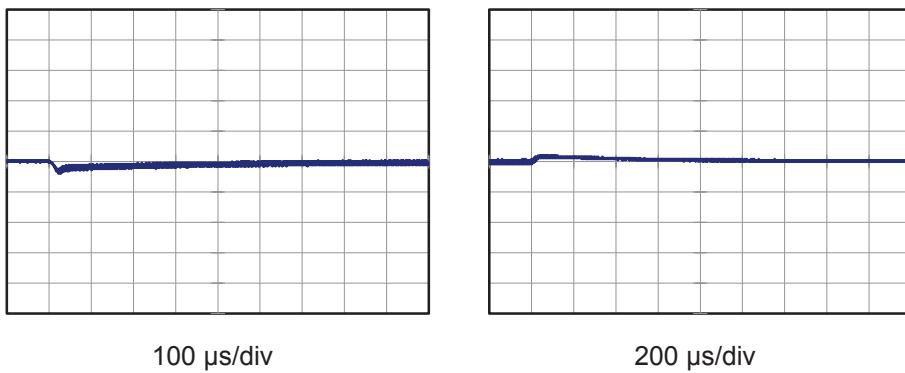
COSEL

Model	MGS34805	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+5V0.6A		

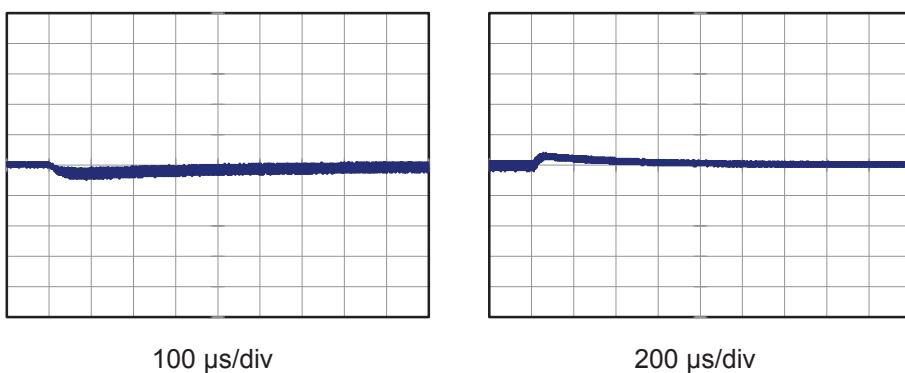
Input Volt. 48 V
Cycle 100 ms



Min.Load (0A) \longleftrightarrow
Load 50% (0.3A)



Load 50% (0.3A) \longleftrightarrow
Load 100% (0.6A)



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Model	MGS34805																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure B																																						
Object	+5V0.6A																																							
1.Graph																																								
<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 0.0 to 0.8 A. Two curves are plotted: one for Input Volt. 36V (triangular markers) and one for Input Volt. 76V (circular markers). Both curves show an increase in ripple voltage as load current increases. A slanted line indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Voltage [mV] (Input Volt. 36V)</th> <th>Ripple Voltage [mV] (Input Volt. 76V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>10</td><td>15</td></tr> <tr><td>0.12</td><td>15</td><td>10</td></tr> <tr><td>0.24</td><td>35</td><td>20</td></tr> <tr><td>0.36</td><td>40</td><td>30</td></tr> <tr><td>0.48</td><td>55</td><td>45</td></tr> <tr><td>0.60</td><td>70</td><td>50</td></tr> <tr><td>0.66</td><td>80</td><td>65</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 Voltage [mV] (Input Volt. 36V)	Ripple Voltage [mV] (Input Volt. 76V)	0.00	10	15	0.12	15	10	0.24	35	20	0.36	40	30	0.48	55	45	0.60	70	50	0.66	80	65	--	-	-	--	-	-	--	-	-	--	-	-			
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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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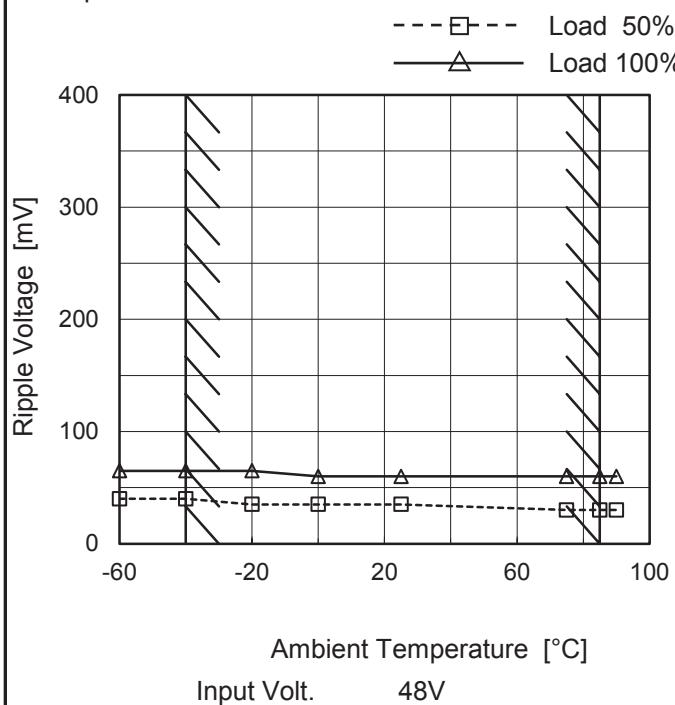
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<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 400 mV, and the X-axis ranges from 0.0 to 0.8 A. Two curves are plotted: one for Input Volt. 36V (solid line with triangle markers) and one for Input Volt. 76V (dashed line with circle markers). A slanted line indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Voltage [mV] (36V)</th> <th>Ripple Voltage [mV] (76V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>10</td><td>15</td></tr> <tr><td>0.12</td><td>20</td><td>15</td></tr> <tr><td>0.24</td><td>35</td><td>25</td></tr> <tr><td>0.36</td><td>50</td><td>35</td></tr> <tr><td>0.48</td><td>60</td><td>50</td></tr> <tr><td>0.60</td><td>80</td><td>55</td></tr> <tr><td>0.66</td><td>90</td><td>65</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 Voltage [mV] (36V)	Ripple Voltage [mV] (76V)	0.00	10	15	0.12	20	15	0.24	35	25	0.36	50	35	0.48	60	50	0.60	80	55	0.66	90	65	--	-	-	--	-	-	--	-	-	--	-	-		
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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>																																								

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Model	MGS34805
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	40	65
-40	40	65
-20	35	65
0	35	60
25	35	60
75	30	60
85	30	60
90	30	60
--	-	-
--	-	-
--	-	-

Measured by 100 MHz Oscilloscope.

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

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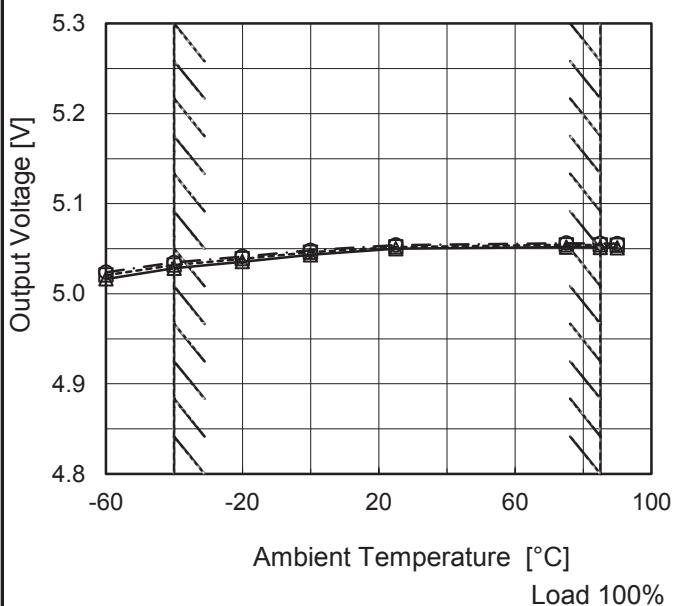
Model MGS34805

Item Ambient Temperature Drift

Object +5V0.6A

1.Graph

—△— Input Volt. 36V
 - - -□--- Input Volt. 48V
 - - -○--- Input Volt. 76V



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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
-60	5.016	5.021	5.024
-40	5.028	5.032	5.035
-20	5.036	5.039	5.041
0	5.043	5.046	5.048
25	5.050	5.052	5.054
75	5.052	5.054	5.056
85	5.051	5.054	5.056
90	5.051	5.054	5.056
--	-	-	-
--	-	-	-
--	-	-	-



Model	MGS34805	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 : 36 - 76V

Load Current : 0 - 0.6A

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

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

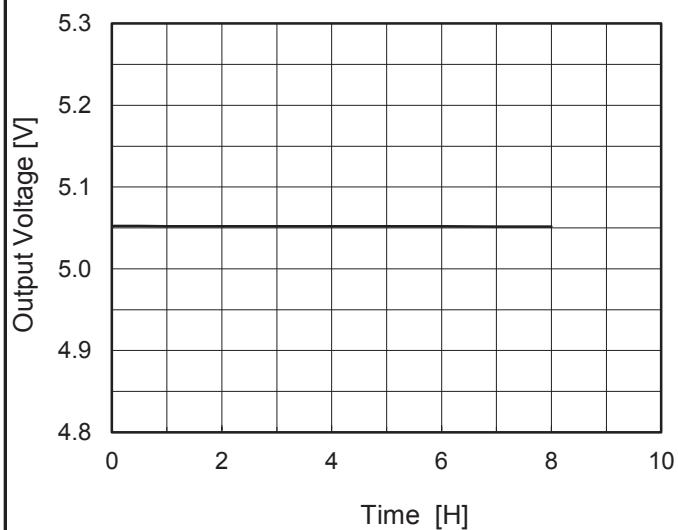
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	75	76	0	5.060	±16	±0.3
Minimum Voltage	-40	36	0.6	5.028		

COSEL

Model	MGS34805	Temperature	25°C
Item	Time Lapse Drift	Testing Circuitry	Figure A
Object	+5V0.6A		

1.Graph



Input Volt. 48V
Load 100%

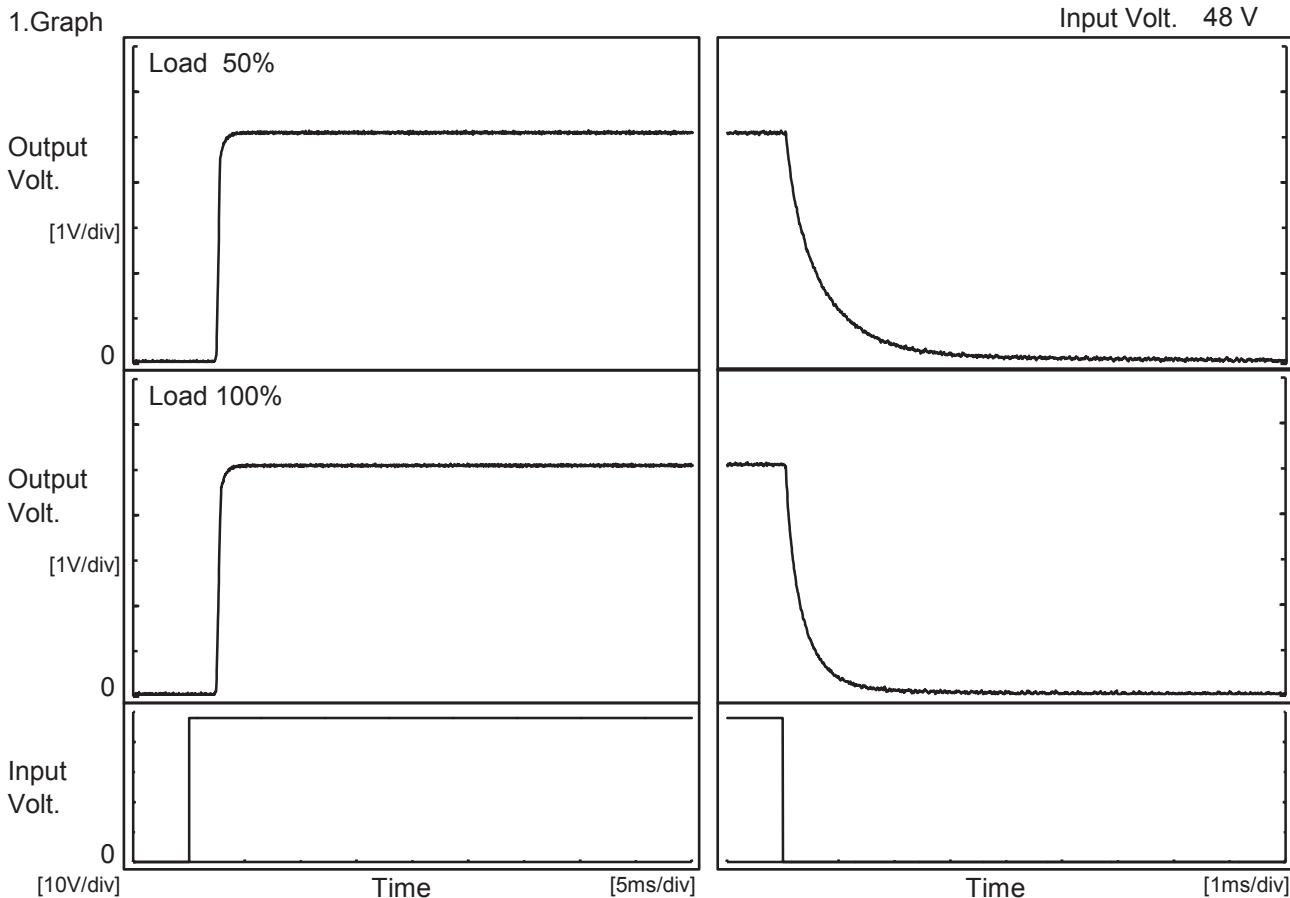
2.Values

Time since start [H]	Output Voltage [V]
0.0	5.051
0.5	5.052
1.0	5.052
2.0	5.052
3.0	5.052
4.0	5.052
5.0	5.052
6.0	5.052
7.0	5.052
8.0	5.052

COSEL

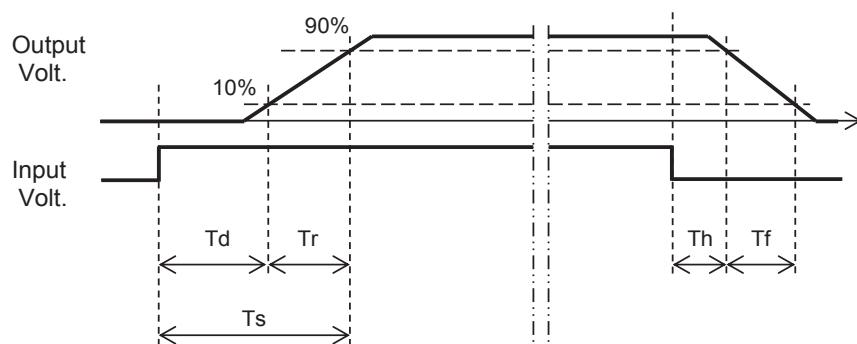
Model	MGS34805	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V0.6A		

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		2.5	0.3	2.8	0.1	1.6	
100 %		2.5	0.4	2.9	0.1	0.8	

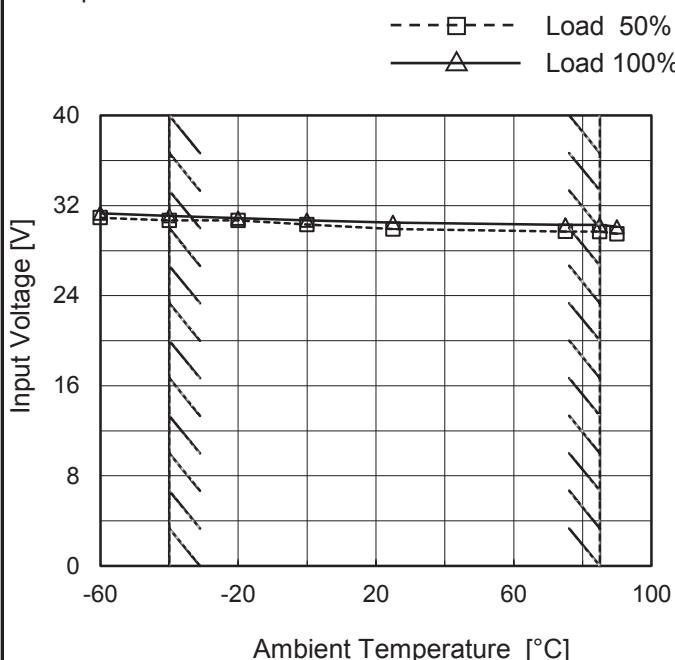


COSEL

Model	MGS34805
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	31.0	31.4
-40	30.7	31.1
-20	30.7	30.9
0	30.4	30.7
25	30.0	30.5
75	29.7	30.3
85	29.7	30.3
90	29.5	30.2
--	-	-
--	-	-
--	-	-

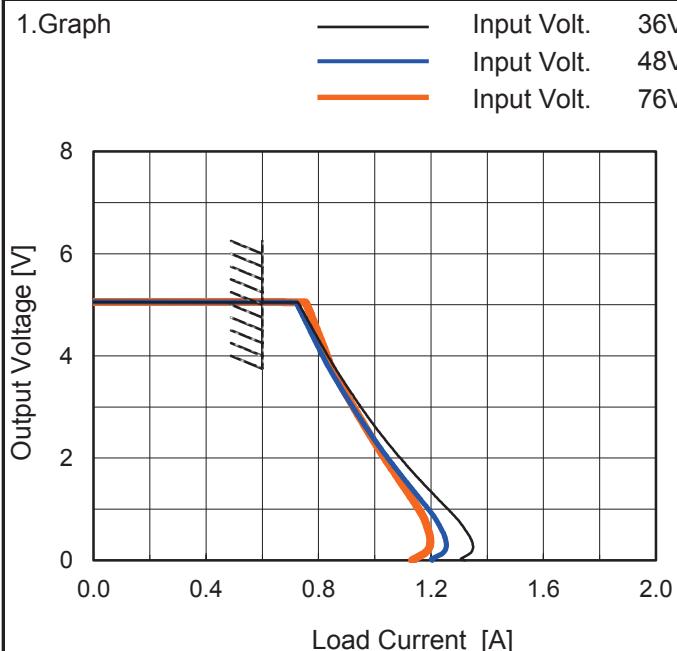
COSEL

Model MGS34805

Item Overcurrent Protection

Object +5V0.6A

1.Graph



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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
5.00	0.62	0.62	0.62
4.75	0.76	0.75	0.78
4.50	0.78	0.77	0.79
4.00	0.83	0.81	0.83
3.50	0.89	0.86	0.87
3.00	0.95	0.92	0.92
2.50	1.02	0.98	0.98
2.00	1.09	1.04	1.03
1.50	1.17	1.12	1.10
1.00	1.26	1.19	1.16
0.50	1.33	1.25	1.19
0.00	1.32	1.20	1.14

COSEL

Model	MGS34805	Temperature	25°C																																																			
Item	Switching Frequency (by Load Current)	Testing Circuitry	Figure A																																																			
Object	+5V0.6A																																																					
1.Graph		2.Values																																																				
		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Frequency [kHz]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>609</td><td>628</td><td>668</td></tr> <tr><td>0.12</td><td>463</td><td>510</td><td>562</td></tr> <tr><td>0.24</td><td>373</td><td>421</td><td>480</td></tr> <tr><td>0.36</td><td>311</td><td>357</td><td>415</td></tr> <tr><td>0.48</td><td>267</td><td>310</td><td>366</td></tr> <tr><td>0.60</td><td>234</td><td>274</td><td>328</td></tr> <tr><td>0.66</td><td>220</td><td>259</td><td>312</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]	Frequency [kHz]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	609	628	668	0.12	463	510	562	0.24	373	421	480	0.36	311	357	415	0.48	267	310	366	0.60	234	274	328	0.66	220	259	312	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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