



TEST DATA OF MGS34812

Regulated DC Power Supply
August 22, 2016

Approved by : Takayuki Fukuda _____
Takayuki Fukuda Design Manager

Prepared by : Shohei Mukaiide _____
Shohei Mukaiide Design Engineer

COSEL CO.,LTD.



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(Final Page 19)

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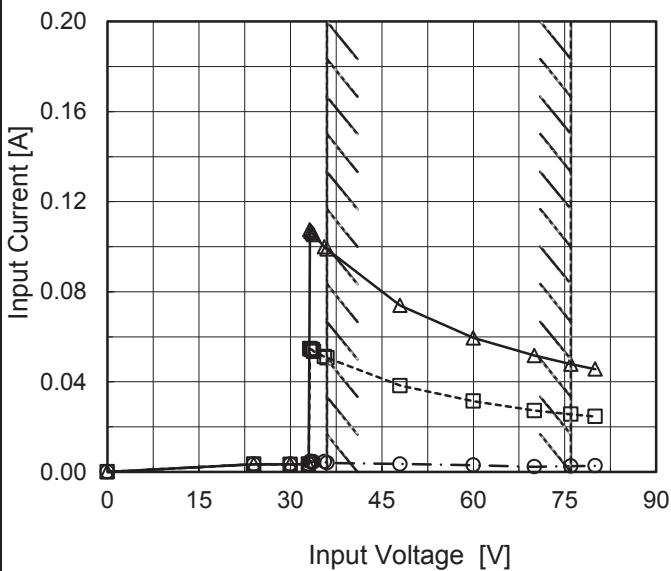
Model MGS34812

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	0.003	0.003	0.003
33.0	0.004	0.004	0.003
33.2	0.005	0.055	0.108
33.4	0.005	0.054	0.107
33.6	0.005	0.054	0.106
33.8	0.005	0.054	0.105
35.6	0.005	0.051	0.100
36.0	0.004	0.051	0.099
48.0	0.004	0.038	0.074
60.0	0.003	0.031	0.060
70.0	0.002	0.027	0.052
76.0	0.003	0.026	0.048
80.0	0.003	0.025	0.046
--	-	-	-
--	-	-	-
--	-	-	-

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Model	MGS34812	Temperature	25°C																																																			
Item	Input Current (by Load Current)	Testing Circuitry	Figure A																																																			
Object																																																						
1.Graph	<p>—△— Input Volt. 36V - - -□--- Input Volt. 48V - - ○--- Input Volt. 76V</p>																																																					
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</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>0.000</td><td>0.004</td><td>0.004</td><td>0.003</td></tr> <tr><td>0.050</td><td>0.023</td><td>0.018</td><td>0.013</td></tr> <tr><td>0.100</td><td>0.041</td><td>0.032</td><td>0.021</td></tr> <tr><td>0.150</td><td>0.060</td><td>0.045</td><td>0.030</td></tr> <tr><td>0.200</td><td>0.079</td><td>0.060</td><td>0.039</td></tr> <tr><td>0.250</td><td>0.099</td><td>0.074</td><td>0.048</td></tr> <tr><td>0.275</td><td>0.109</td><td>0.081</td><td>0.052</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 Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.000	0.004	0.004	0.003	0.050	0.023	0.018	0.013	0.100	0.041	0.032	0.021	0.150	0.060	0.045	0.030	0.200	0.079	0.060	0.039	0.250	0.099	0.074	0.048	0.275	0.109	0.081	0.052	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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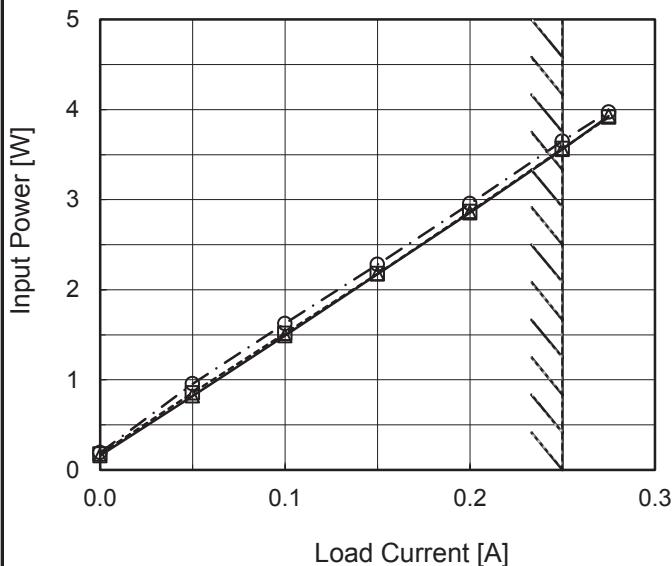
Model MGS34812

Item Input Power (by Load Current)

Object _____

1. Graph

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



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

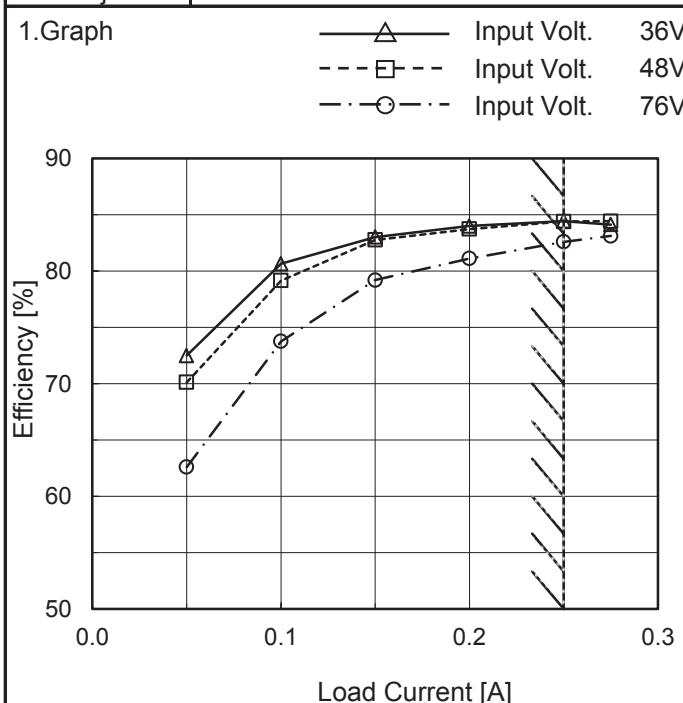
Load Current [A]	Input Power [W]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.000	0.16	0.18	0.19
0.050	0.82	0.86	0.96
0.100	1.49	1.52	1.63
0.150	2.17	2.18	2.28
0.200	2.85	2.87	2.96
0.250	3.56	3.57	3.65
0.275	3.93	3.91	3.97
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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Model	MGS34812	Temperature	25°C																																
Item	Efficiency (by Input Voltage)	Testing Circuitry	Figure A																																
Object																																			
1.Graph	<p>The graph plots Efficiency [%] from 50 to 90 against Input Voltage [V] from 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. A slanted line indicates the rated input voltage range.</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>34</td><td>82.3</td><td>84.1</td></tr> <tr><td>36</td><td>82.4</td><td>84.5</td></tr> <tr><td>40</td><td>82.2</td><td>84.6</td></tr> <tr><td>48</td><td>81.2</td><td>84.4</td></tr> <tr><td>55</td><td>80.6</td><td>84.1</td></tr> <tr><td>60</td><td>79.8</td><td>83.9</td></tr> <tr><td>70</td><td>78.0</td><td>83.2</td></tr> <tr><td>76</td><td>77.2</td><td>82.6</td></tr> <tr><td>80</td><td>76.3</td><td>82.0</td></tr> </tbody> </table>			Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	34	82.3	84.1	36	82.4	84.5	40	82.2	84.6	48	81.2	84.4	55	80.6	84.1	60	79.8	83.9	70	78.0	83.2	76	77.2	82.6	80	76.3	82.0		
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Model	MGS34812
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]
0.000	-	-	-
0.050	72.5	70.1	62.6
0.100	80.6	79.2	73.8
0.150	83.0	82.8	79.2
0.200	84.0	83.7	81.1
0.250	84.5	84.4	82.6
0.275	84.1	84.4	83.1
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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

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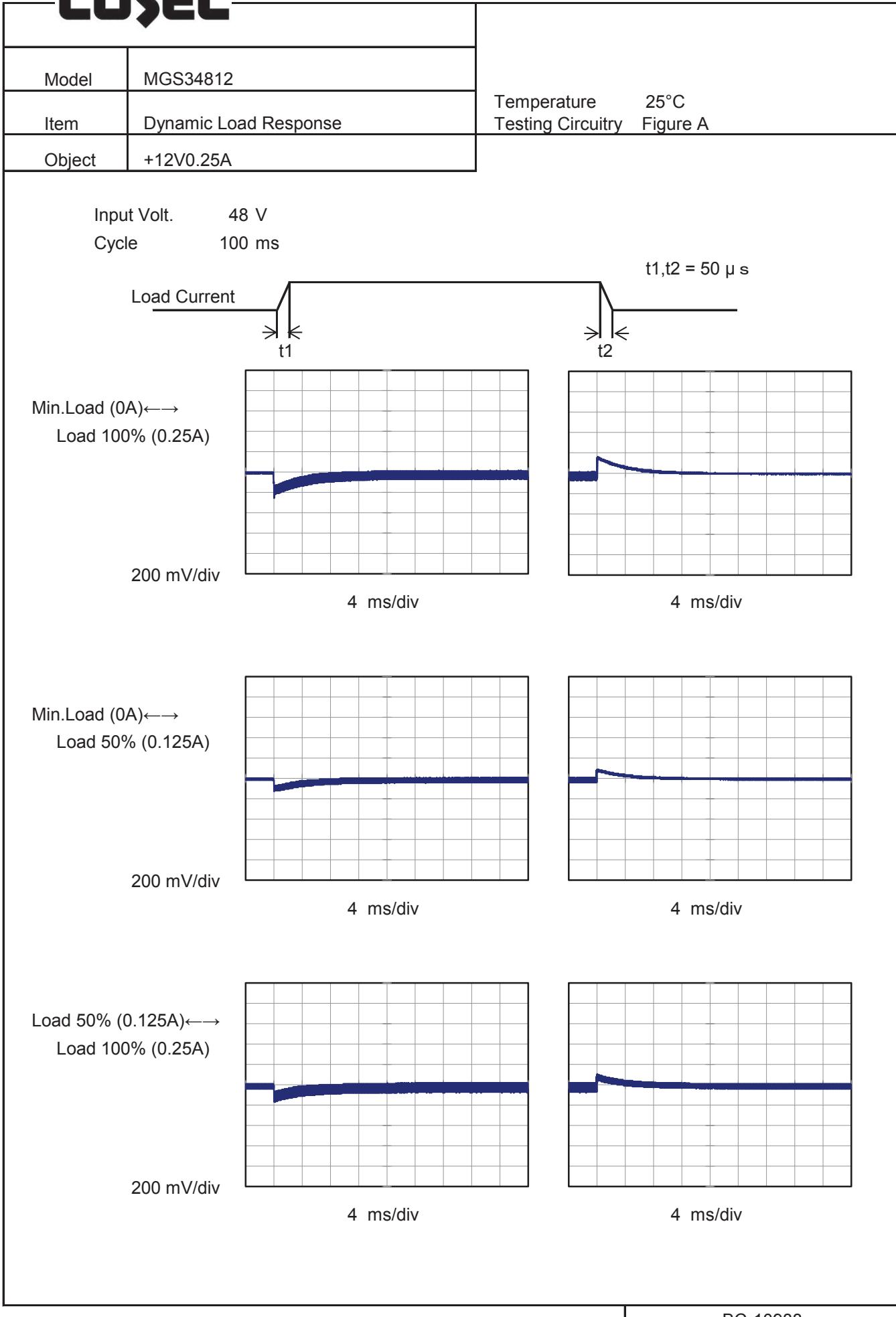
Model	MGS34812	Temperature	25°C																																
Item	Line Regulation	Testing Circuitry	Figure A																																
Object	+12V0.25A																																		
1.Graph		2.Values																																	
<p>The graph plots Output Voltage [V] on the y-axis (11.6 to 12.6) against Input Voltage [V] on the x-axis (30 to 90). A horizontal dashed line at 12.0V represents the output voltage. Two slanted lines define the rated input voltage range from ~34V to ~75V. Data points are marked with squares.</p>		<table border="1"> <thead> <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> </thead> <tbody> <tr><td>34</td><td>12.015</td><td>12.012</td></tr> <tr><td>36</td><td>12.016</td><td>12.013</td></tr> <tr><td>40</td><td>12.015</td><td>12.012</td></tr> <tr><td>48</td><td>12.015</td><td>12.012</td></tr> <tr><td>55</td><td>12.015</td><td>12.012</td></tr> <tr><td>60</td><td>12.015</td><td>12.012</td></tr> <tr><td>70</td><td>12.015</td><td>12.012</td></tr> <tr><td>76</td><td>12.015</td><td>12.012</td></tr> <tr><td>80</td><td>12.015</td><td>12.012</td></tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	34	12.015	12.012	36	12.016	12.013	40	12.015	12.012	48	12.015	12.012	55	12.015	12.012	60	12.015	12.012	70	12.015	12.012	76	12.015	12.012	80	12.015	12.012
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Model	MGS34812	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
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<p>The graph plots Output Voltage [V] on the Y-axis (11.6 to 12.6) against Load Current [A] on the X-axis (0.0 to 0.3). Three curves are shown for Input Voltages of 36V, 48V, and 76V. All curves show a constant output voltage of 12.0V for low load currents, followed by a sharp drop-off. A slanted line highlights the range of the rated load current (approximately 0.25A).</p>		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</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>0.000</td><td>12.020</td><td>12.019</td><td>12.020</td></tr> <tr><td>0.050</td><td>12.018</td><td>12.018</td><td>12.017</td></tr> <tr><td>0.100</td><td>12.017</td><td>12.016</td><td>12.016</td></tr> <tr><td>0.150</td><td>12.015</td><td>12.015</td><td>12.014</td></tr> <tr><td>0.200</td><td>12.014</td><td>12.014</td><td>12.013</td></tr> <tr><td>0.250</td><td>12.013</td><td>12.012</td><td>12.012</td></tr> <tr><td>0.275</td><td>12.012</td><td>12.012</td><td>12.011</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]	Output Voltage [V]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.000	12.020	12.019	12.020	0.050	12.018	12.018	12.017	0.100	12.017	12.016	12.016	0.150	12.015	12.015	12.014	0.200	12.014	12.014	12.013	0.250	12.013	12.012	12.012	0.275	12.012	12.012	12.011	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.

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Model	MGS34812																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure B																																						
Object	+12V0.25A																																							
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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 0.3 A. Two curves are plotted: one for Input Volt. 36V (solid line with triangles) and one for Input Volt. 76V (dashed line with circles). Both curves show an increase in ripple voltage as load current increases, with the 36V curve being higher than the 76V curve. A slanted line indicates the rated load current range.</p>																																								
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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>Figure showing a complex ripple wave form. The waveform is triangular and periodic, representing the measured ripple voltage.</p>																																								
<p>Fig.Complex Ripple Wave Form</p>																																								

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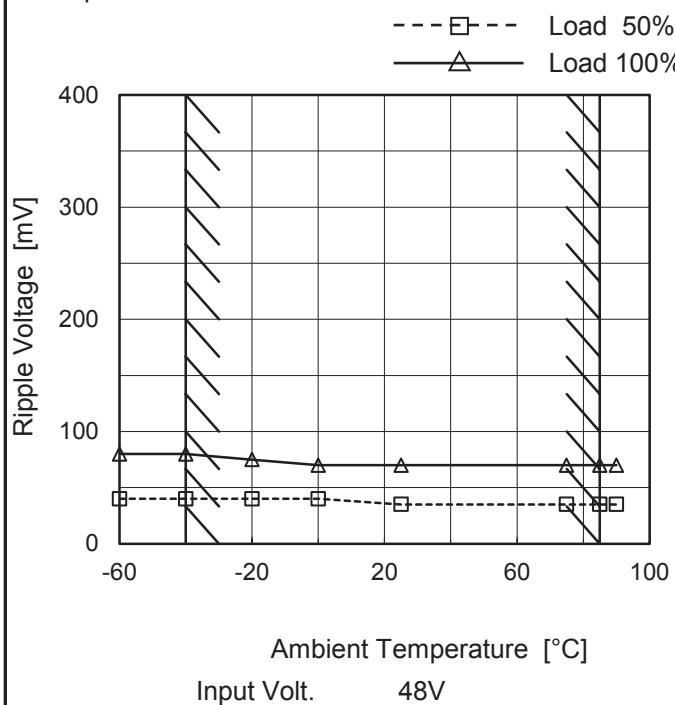
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Item	Ripple-Noise	Temperature 25°C Testing Circuitry Figure B																																						
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<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 400 mV, and the X-axis ranges from 0.0 to 0.3 A. Two curves are plotted: one for 36V (solid line with open triangles) and one for 76V (dashed line with open circles). Both curves show an increase in ripple voltage as load current increases, with the 76V curve generally higher than the 36V curve. A slanted line indicates the rated load current range.</p>																																								
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Model	MGS34812
Item	Ripple Voltage (by Ambient Temp.)
Object	+12V0.25A

Testing Circuitry Figure B

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	40	80
-40	40	80
-20	40	75
0	40	70
25	35	70
75	35	70
85	35	70
90	35	70
--	-	-
--	-	-
--	-	-

COSEL

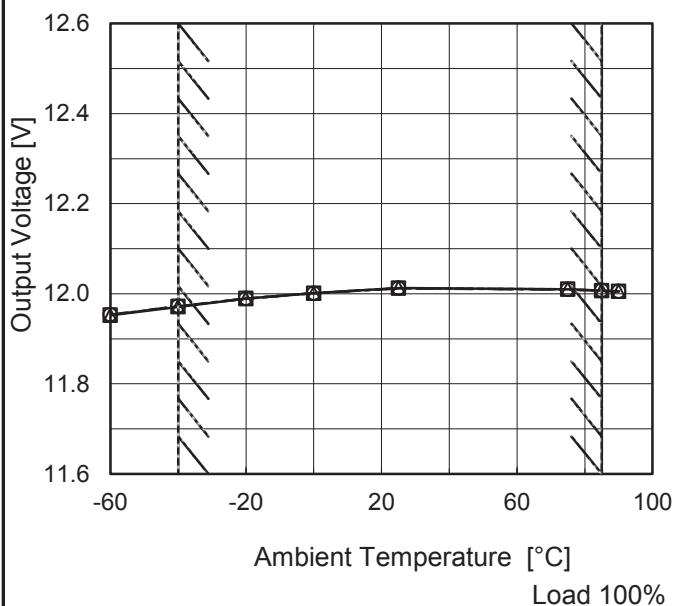
Model MGS34812

Item Ambient Temperature Drift

Object +12V0.25A

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	11.952	11.953	11.953
-40	11.971	11.972	11.972
-20	11.989	11.990	11.990
0	12.001	12.001	12.001
25	12.013	12.012	12.012
75	12.010	12.010	12.009
85	12.007	12.007	12.007
90	12.005	12.005	12.005
--	-	-	-
--	-	-	-
--	-	-	-



Model	MGS34812	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+12V0.25A	

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 - 0.25A

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

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

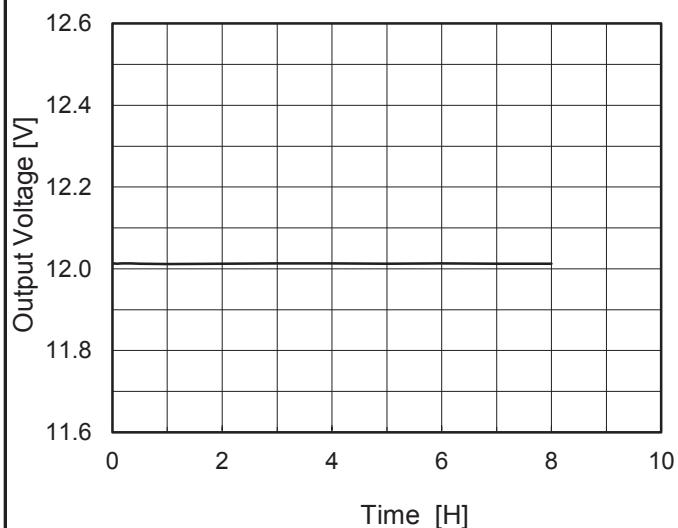
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	75	76	0	12.019	±24	±0.2
Minimum Voltage	-40	36	0.25	11.971		

COSEL

Model	MGS34812	Temperature	25°C
Item	Time Lapse Drift	Testing Circuitry	Figure A
Object	+12V0.25A		

1.Graph



Input Volt. 48V
Load 100%

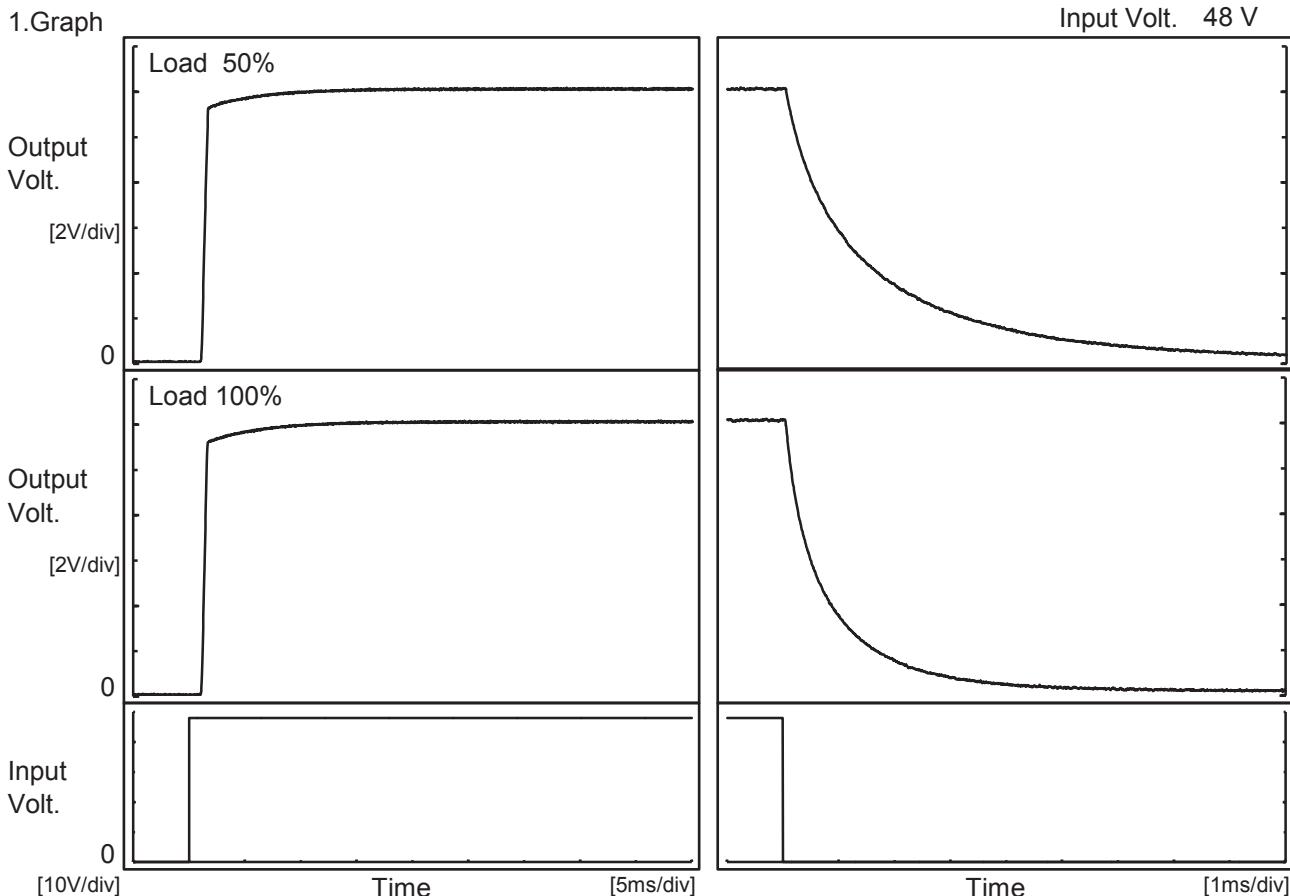
2.Values

Time since start [H]	Output Voltage [V]
0.0	12.012
0.5	12.012
1.0	12.012
2.0	12.013
3.0	12.013
4.0	12.013
5.0	12.012
6.0	12.013
7.0	12.013
8.0	12.013

COSEL

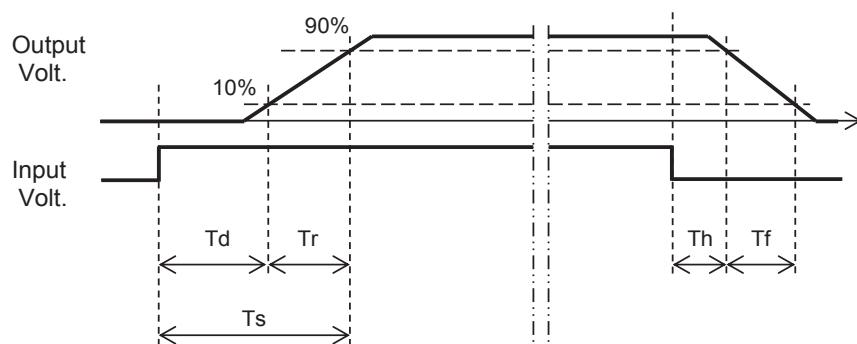
Model	MGS34812	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V0.25A		

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		1.2	0.5	1.7	0.2	4.4	
100 %		1.2	0.5	1.7	0.1	2.1	

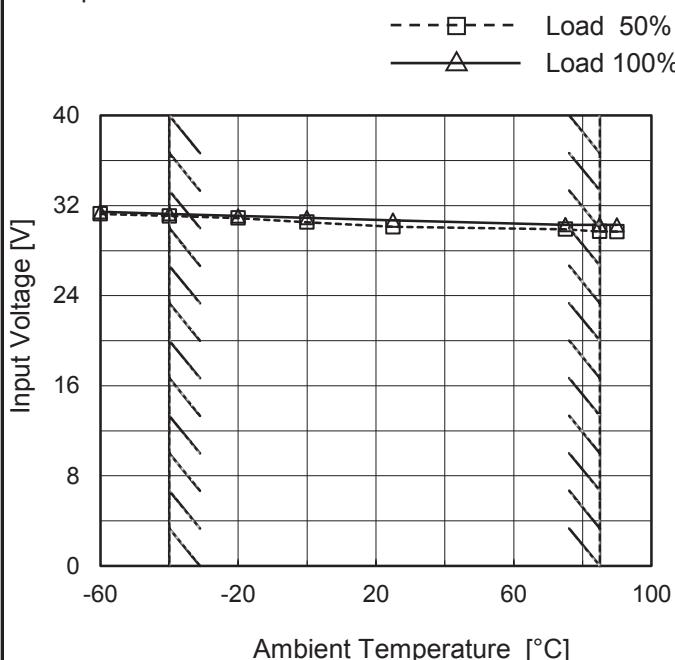


COSEL

Model	MGS34812
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+12V0.25A

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	31.3	31.5
-40	31.1	31.3
-20	30.9	31.1
0	30.6	31.0
25	30.2	30.7
75	29.9	30.3
85	29.7	30.3
90	29.7	30.3
--	-	-
--	-	-
--	-	-

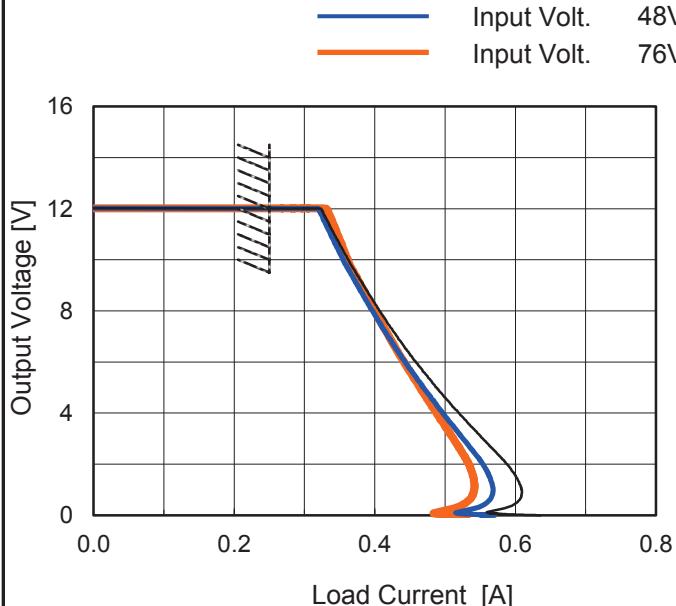
COSEL

Model MGS34812

Item Overcurrent Protection

Object +12V0.25A

1. Graph



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

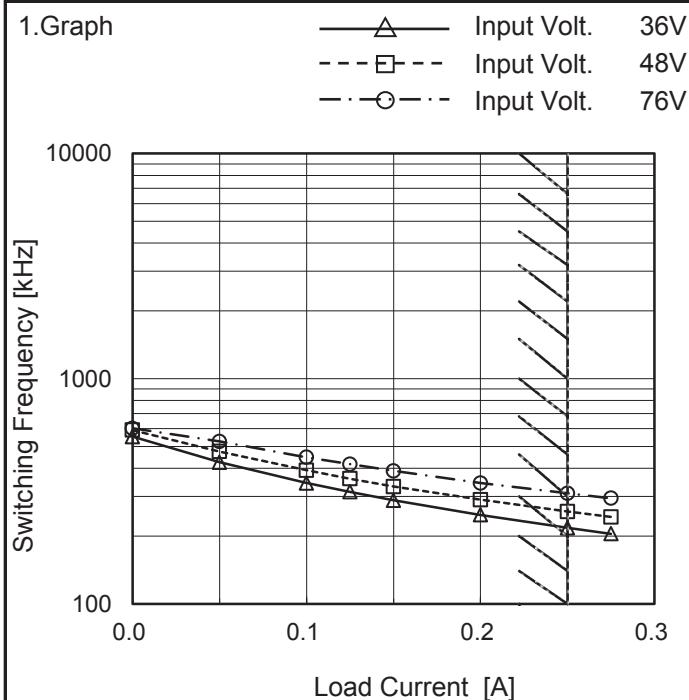
 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
12.0	0.25	0.25	0.25
11.4	0.33	0.33	0.34
10.8	0.35	0.34	0.35
9.6	0.37	0.36	0.37
8.4	0.40	0.39	0.39
7.2	0.43	0.41	0.42
6.0	0.46	0.44	0.44
4.8	0.49	0.47	0.47
3.6	0.53	0.51	0.50
2.4	0.57	0.54	0.53
1.2	0.61	0.57	0.54
0.0	0.64	0.57	0.53

COSEL

Model	MGS34812
Item	Switching Frequency (by Load Current)
Object	+12V0.25A


 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Frequency [kHz]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.000	553	640	602
0.050	426	475	527
0.100	344	392	448
0.125	314	360	417
0.150	288	332	389
0.200	248	290	344
0.250	217	257	310
0.275	205	243	294
--	-	-	-
--	-	-	-
--	-	-	-

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.

