



TEST DATA OF MGS6243R3

Regulated DC Power Supply
July 29, 2016

Approved by :

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Design Manager

Prepared by :

Ryosuke Nakao

Design Engineer

COSEL CO.,LTD.



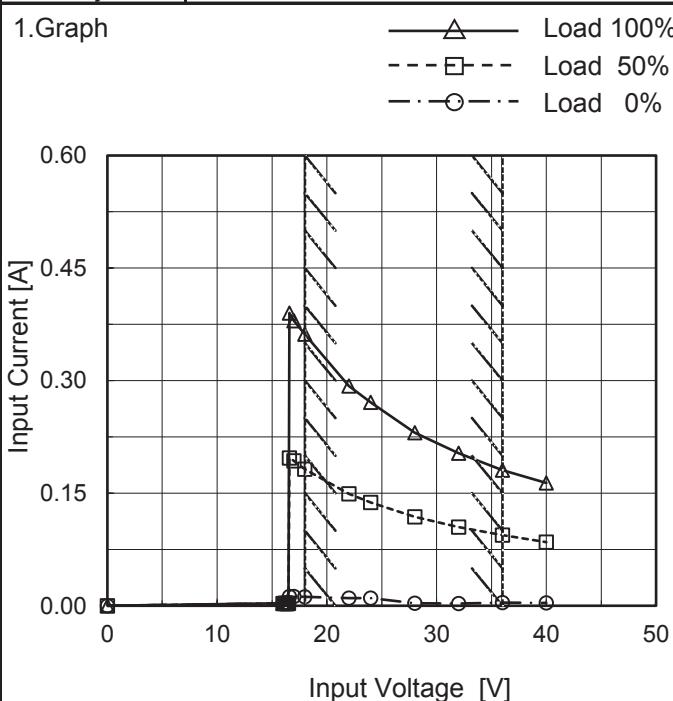
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Model	MGS6243R3
Item	Input Current (by Input Voltage)
Object	_____



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

Temperature 25°C
Testing Circuitry Figure A

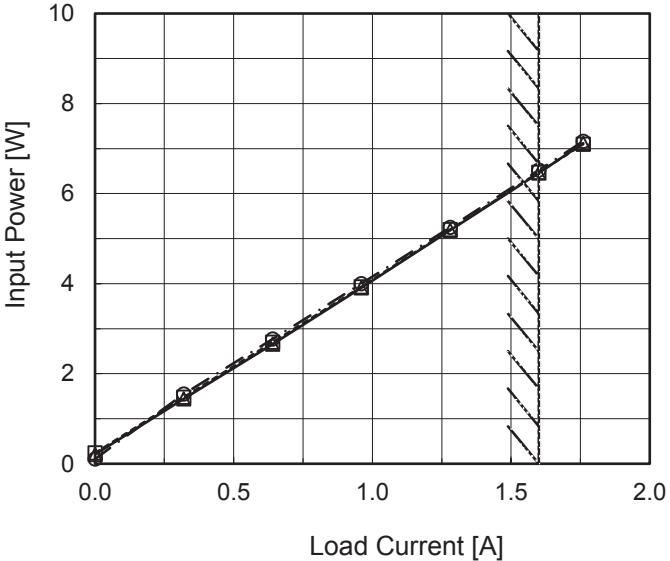
2.Values

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	0.004	0.003	0.003
16.5	0.004	0.003	0.004
16.6	0.012	0.197	0.390
17.0	0.012	0.193	0.380
18.0	0.012	0.182	0.362
22.0	0.010	0.149	0.293
24.0	0.010	0.138	0.271
28.0	0.003	0.118	0.230
32.0	0.003	0.105	0.203
36.0	0.004	0.094	0.181
40.0	0.004	0.085	0.164
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Item	Input Current (by Load Current)																																																					
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1.Graph																																																						
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<p>The graph shows three curves representing different input voltages: 18V (solid line with open triangles), 24V (dashed line with open squares), and 36V (dash-dot line with open circles). All curves start at (0,0) and increase monotonically. A vertical dashed line is drawn at approximately 1.55A, representing the rated load current range. The 18V curve reaches the highest input current of about 0.35A at 1.7A load. The 24V curve reaches about 0.28A at 1.6A load. The 36V curve reaches about 0.18A at 1.4A load.</p>																																																						
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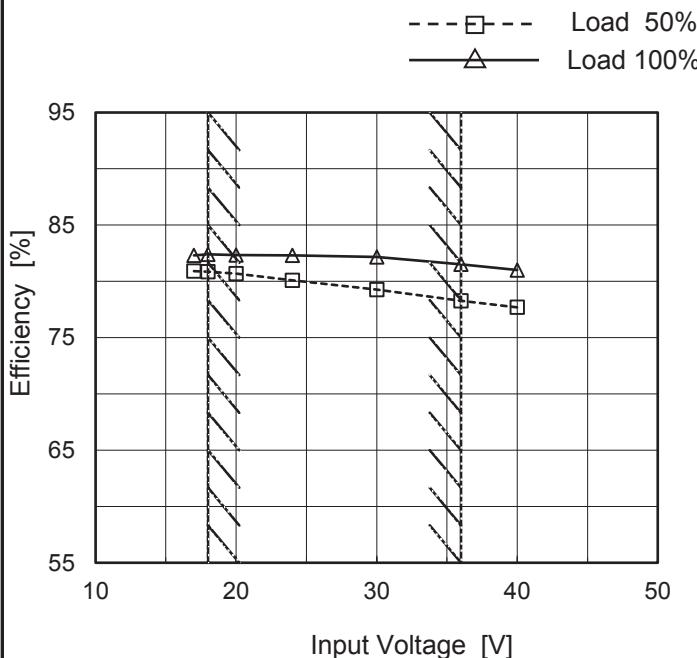
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 <p>The graph plots Input Power [W] on the Y-axis (0 to 10) against Load Current [A] on the X-axis (0.0 to 2.0). Three curves are shown for different input voltages: 18V (solid line with open squares), 24V (dashed line with open squares), and 36V (dash-dot line with open circles). All curves show a linear increase in power with load current. A slanted line is drawn across the graph, starting from approximately (0.3, 1.2) and ending at (1.5, 6.5), indicating the range of the rated load current.</p>																																																						
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Model	MGS6243R3
Item	Efficiency (by Input Voltage)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1.Graph

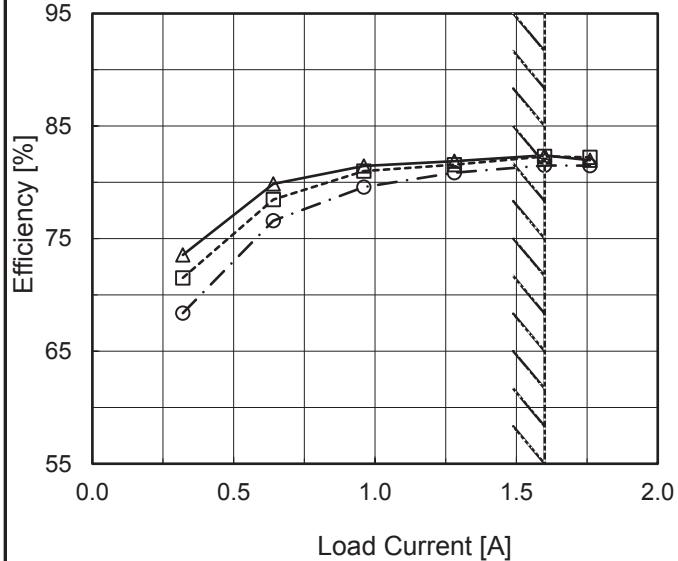


2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
17	80.9	82.3
18	80.8	82.4
20	80.7	82.3
24	80.1	82.3
30	79.3	82.2
36	78.3	81.5
40	77.7	81.0
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Note: Slanted line shows the range of the rated input voltage.

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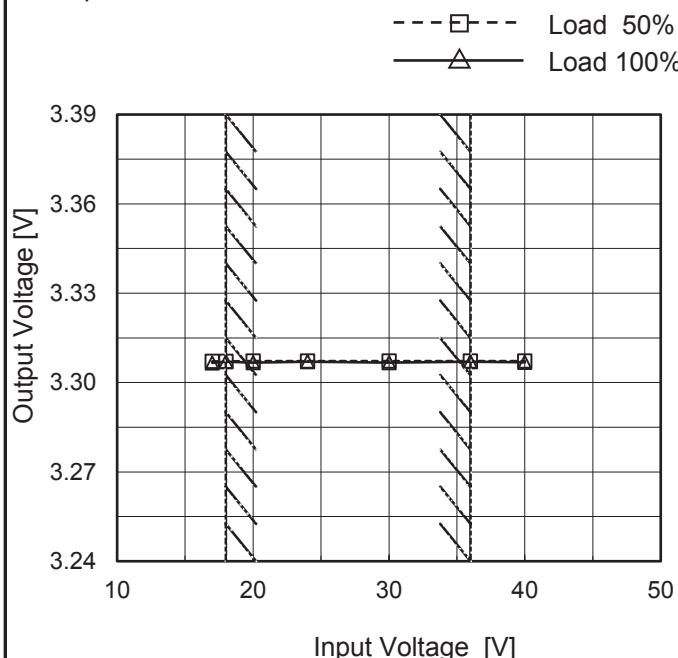
Model	MGS6243R3	Temperature	25°C																																																					
Item	Efficiency (by Load Current)	Testing Circuitry	Figure A																																																					
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 <p>The graph plots Efficiency [%] on the y-axis (55 to 95) against Load Current [A] on the x-axis (0.0 to 2.0). Three data series are shown: 18V (solid line with triangles), 24V (dashed line with squares), and 36V (dash-dot line with circles). All curves show efficiency increasing with load current. A vertical slanted line is drawn from approximately 1.0A to 1.7A, indicating the rated load current range.</p>			2.Values																																																					
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<p>Note: Slanted line shows the range of the rated load current.</p>																																																								

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Model	MGS6243R3
Item	Line Regulation
Object	+3.3V1.6A

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
17	3.307	3.307
18	3.307	3.307
20	3.307	3.307
24	3.307	3.307
30	3.307	3.307
36	3.307	3.307
40	3.307	3.307
--	-	-
--	-	-

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

COSEL

Model	MGS6243R3	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+3.3V1.6A																																																					
1.Graph		2.Values																																																				
<p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 18V Input Volt. 24V Input Volt. 36V 		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>3.310</td><td>3.310</td><td>3.310</td></tr> <tr><td>0.32</td><td>3.309</td><td>3.309</td><td>3.309</td></tr> <tr><td>0.64</td><td>3.308</td><td>3.308</td><td>3.308</td></tr> <tr><td>0.96</td><td>3.308</td><td>3.308</td><td>3.308</td></tr> <tr><td>1.28</td><td>3.307</td><td>3.307</td><td>3.307</td></tr> <tr><td>1.60</td><td>3.307</td><td>3.307</td><td>3.307</td></tr> <tr><td>1.76</td><td>3.306</td><td>3.306</td><td>3.306</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. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.00	3.310	3.310	3.310	0.32	3.309	3.309	3.309	0.64	3.308	3.308	3.308	0.96	3.308	3.308	3.308	1.28	3.307	3.307	3.307	1.60	3.307	3.307	3.307	1.76	3.306	3.306	3.306	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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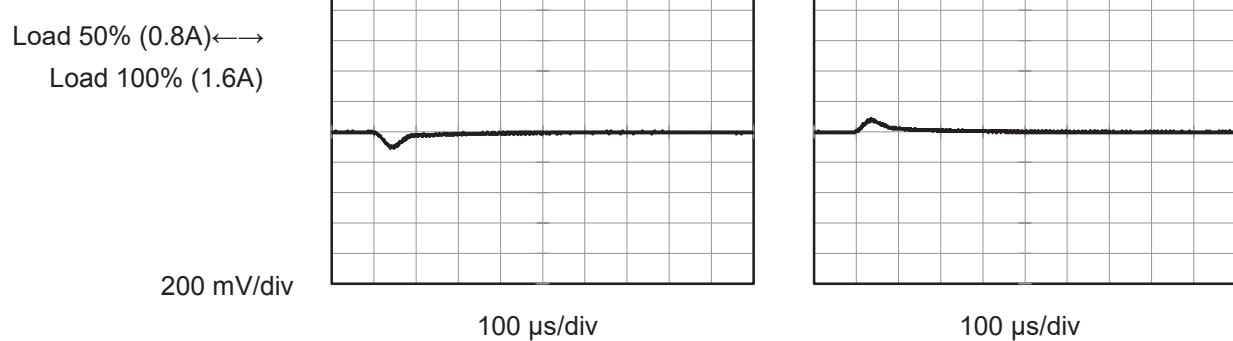
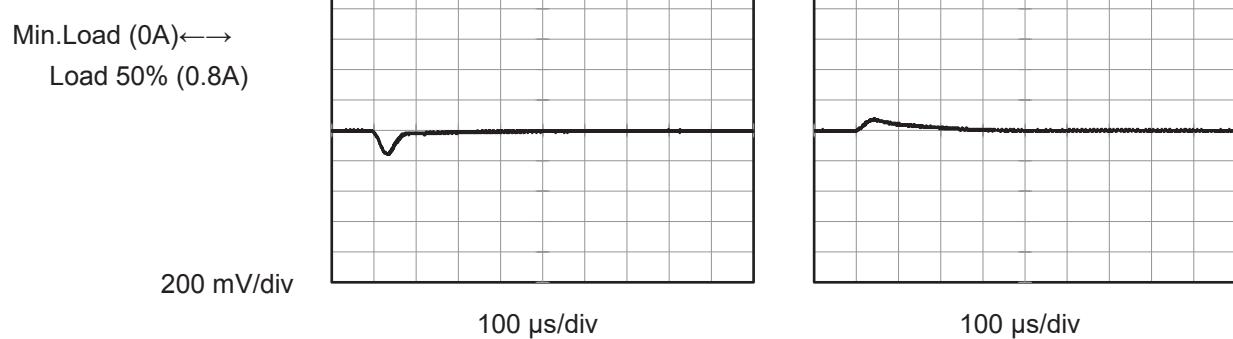
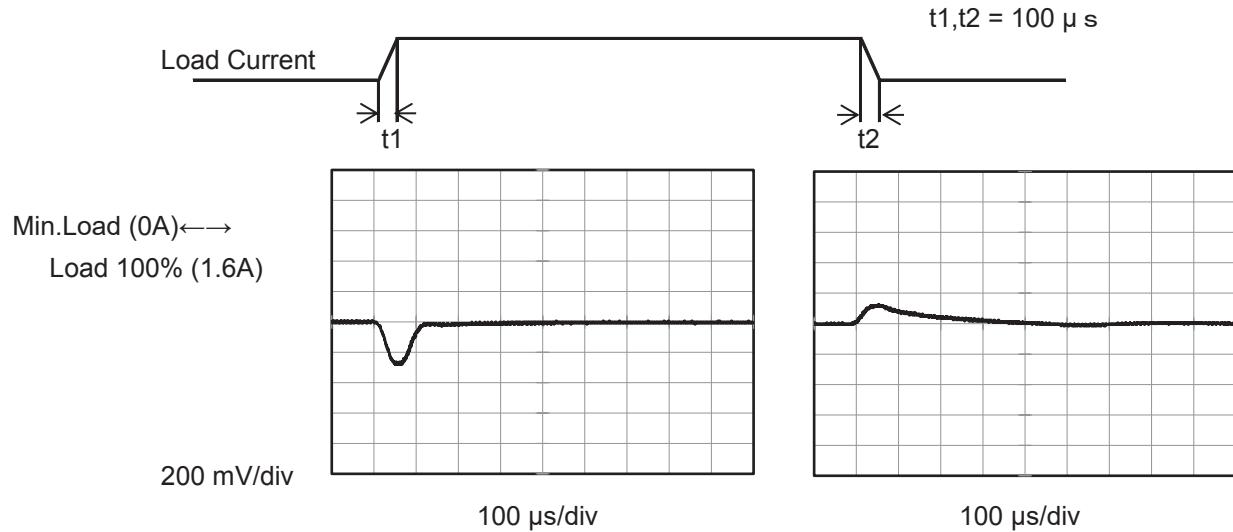
Note: Slanted line shows the range of the rated load current.

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Model	MGS6243R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V1.6A		

Input Volt. 24 V
 Cycle 100 ms

Temperature 25°C
 Testing Circuitry Figure A



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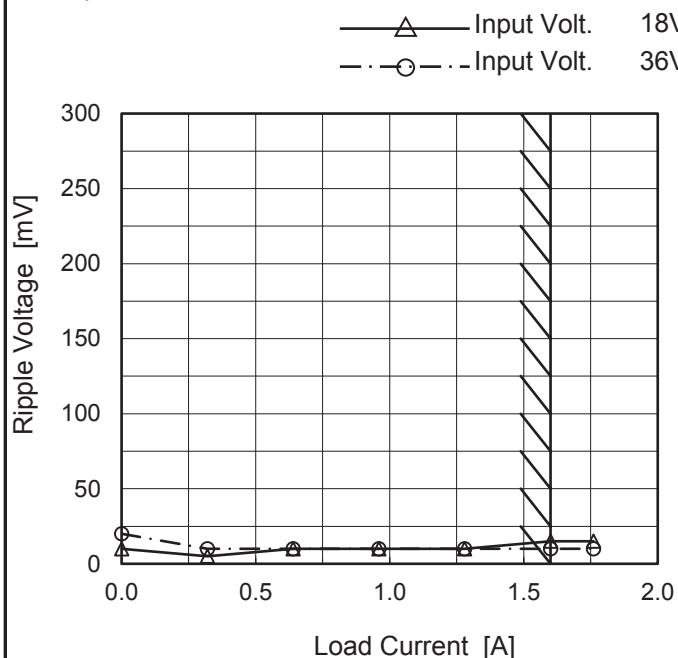
Model	MGS6243R3																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure B																																						
Object	+3.3V1.6A																																							
1.Graph																																								
<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 300 mV, and the X-axis ranges from 0.0 to 2.0 A. Two curves are shown: one for 18V input (solid line with open circles) and one for 36V input (dashed line with open circles). Both curves show low ripple voltage until approximately 1.2A, after which it increases sharply. A slanted line indicates the rated load current range.</p>																																								
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<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 18 [V]</th> <th>Input Volt. 36 [V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td><td>5</td><td>15</td></tr> <tr> <td>0.32</td><td>5</td><td>5</td></tr> <tr> <td>0.64</td><td>5</td><td>5</td></tr> <tr> <td>0.96</td><td>5</td><td>5</td></tr> <tr> <td>1.28</td><td>10</td><td>10</td></tr> <tr> <td>1.60</td><td>10</td><td>10</td></tr> <tr> <td>1.76</td><td>15</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> </tbody> </table>			Load Current [A]	Ripple Voltage [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	5	15	0.32	5	5	0.64	5	5	0.96	5	5	1.28	10	10	1.60	10	10	1.76	15	10	--	-	-	--	-	-	--	-	-	--	-	-
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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. It consists of several triangular pulses of varying amplitudes, superimposed on a DC level. The vertical axis has arrows indicating positive and negative directions.</p>																																								
<p>Fig.Complex Ripple Wave Form</p>																																								

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Model	MGS6243R3
Item	Ripple-Noise
Object	+3.3V1.6A

Temperature 25°C
Testing Circuitry Figure B

1.Graph



2.Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 18 [V]	Input Volt. 36 [V]
0.00	10	20
0.32	5	10
0.64	10	10
0.96	10	10
1.28	10	10
1.60	15	10
1.76	15	10
--	-	-
--	-	-
--	-	-
--	-	-

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.

Ripple Noise[mVp-p]

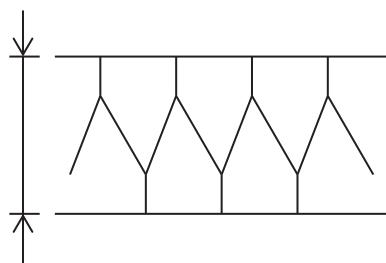
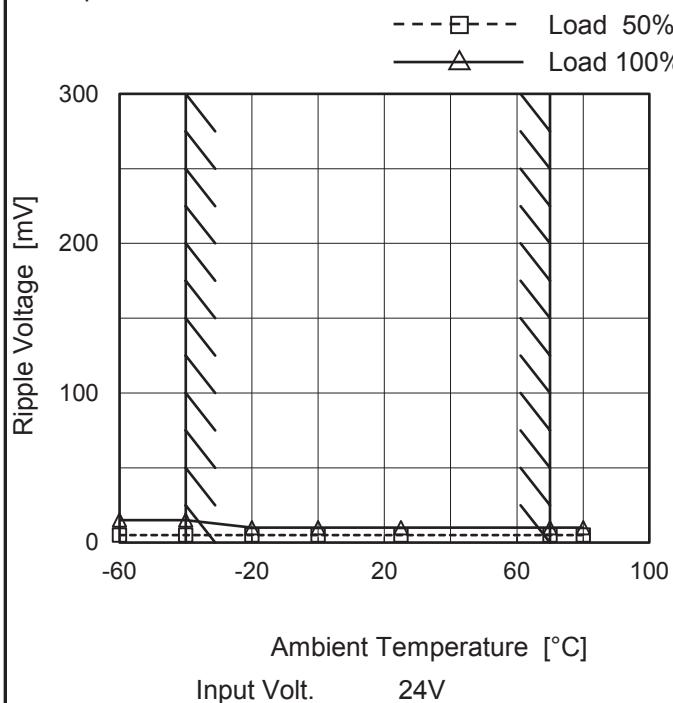


Fig.Complex Ripple Noise Wave Form

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Model	MGS6243R3
Item	Ripple Voltage (by Ambient Temp.)
Object	+3.3V1.6A

1.Graph



Measured by 100 MHz Oscilloscope.

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

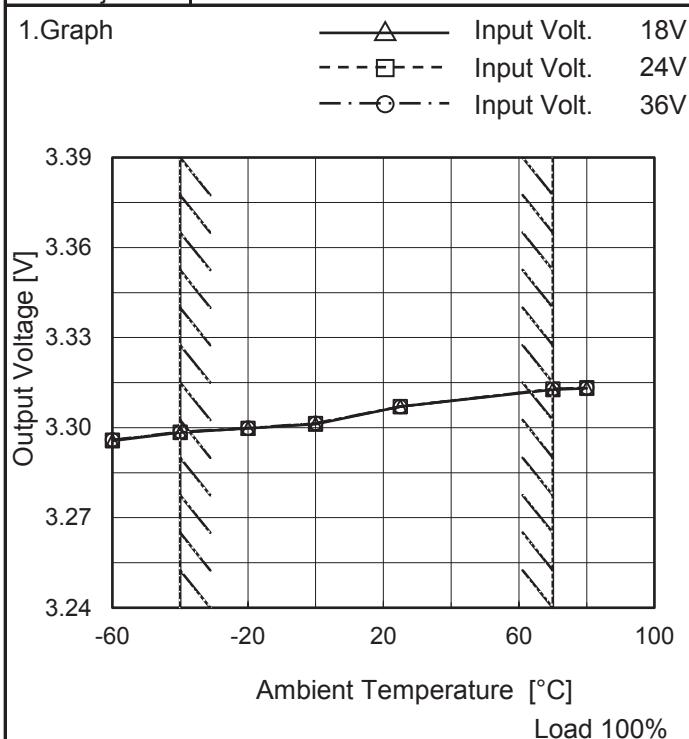
Testing Circuitry Figure B

2.Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	5	15
-40	5	15
-20	5	10
0	5	10
25	5	10
70	5	10
80	5	10
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model	MGS6243R3
Item	Ambient Temperature Drift
Object	+3.3V1.6A



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	3.296	3.296	3.296
-40	3.298	3.299	3.299
-20	3.300	3.300	3.300
0	3.301	3.301	3.302
25	3.307	3.307	3.307
70	3.313	3.313	3.313
80	3.313	3.313	3.313
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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



Model	MGS6243R3	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+3.3V1.6A	

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 - 70°C

Input Voltage : 18 - 36V

Load Current : 0 - 1.6A

* 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

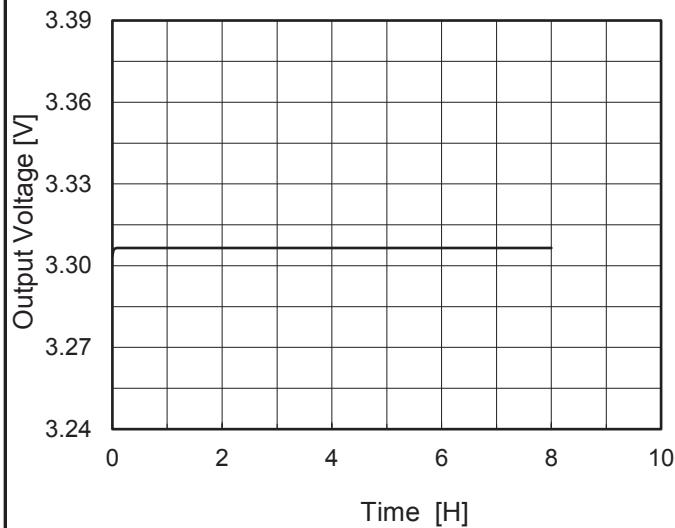
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	70	18	0	3.318	± 10	± 0.3
Minimum Voltage	-40	18	1.6	3.298		

COSEL

Model	MGS6243R3
Item	Time Lapse Drift
Object	+3.3V1.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



Input Volt. 24V
Load 100%

2.Values

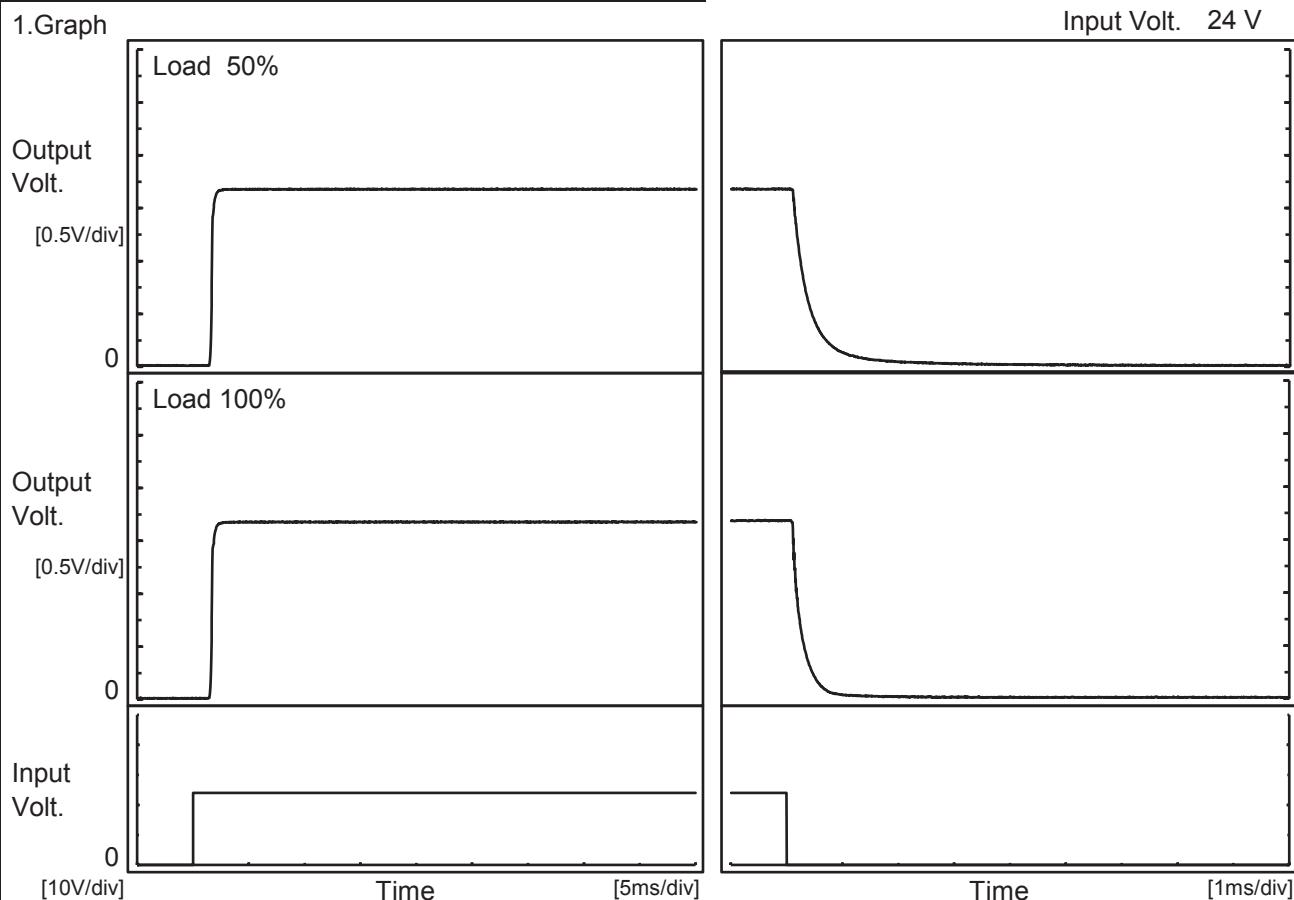
Time since start [H]	Output Voltage [V]
0.0	3.304
0.5	3.307
1.0	3.307
2.0	3.307
3.0	3.307
4.0	3.307
5.0	3.307
6.0	3.307
7.0	3.307
8.0	3.307

COSEL

Model	MGS6243R3
Item	Rise and Fall Time
Object	+3.3V1.6A

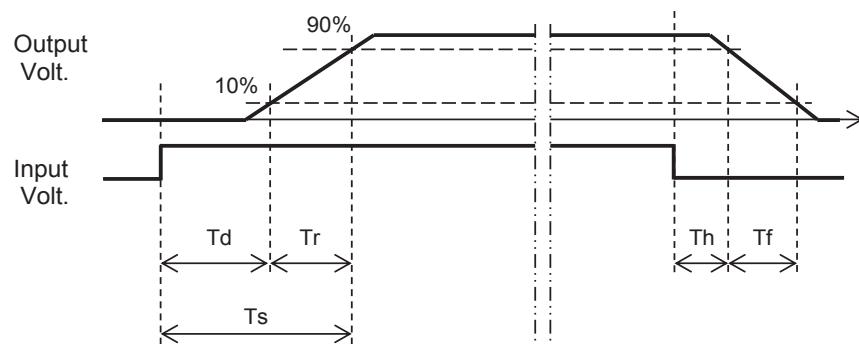
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		1.6	0.3	1.9	0.1	0.7	
100 %		1.6	0.3	1.9	0.1	0.4	

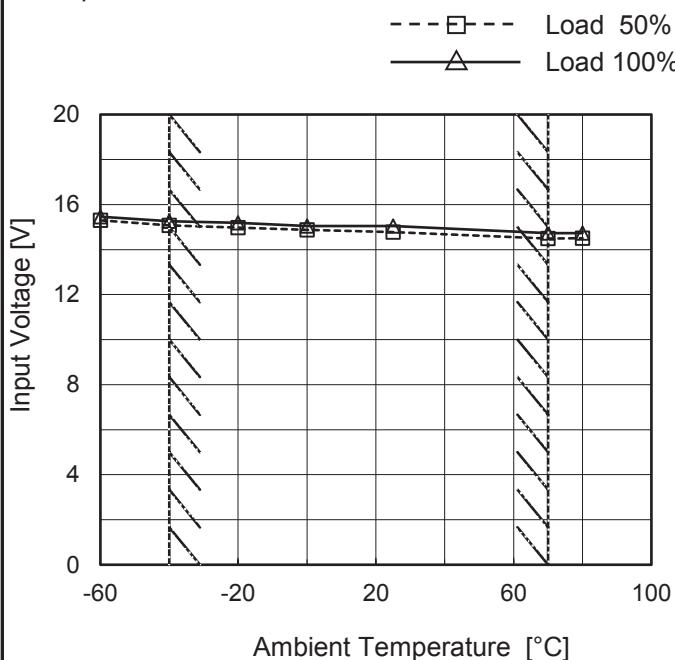


COSEL

Model	MGS6243R3
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+3.3V1.6A

Testing Circuitry Figure A

1.Graph



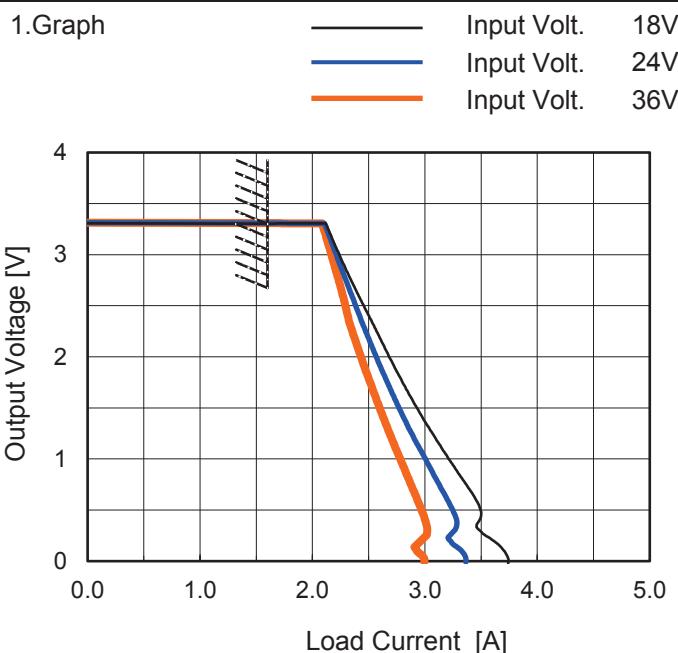
2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	15.3	15.5
-40	15.1	15.3
-20	15.0	15.2
0	14.9	15.1
25	14.8	15.1
70	14.5	14.8
80	14.5	14.8
--	-	-
--	-	-
--	-	-
--	-	-

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

COSEL

Model	MGS6243R3
Item	Overcurrent Protection
Object	+3.3V1.6A



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]
3.30	1.60	1.60	1.60
3.14	2.19	2.17	2.13
2.97	2.25	2.22	2.17
2.64	2.39	2.33	2.26
2.31	2.54	2.45	2.33
1.98	2.69	2.57	2.44
1.65	2.85	2.70	2.54
1.32	3.02	2.85	2.66
0.99	3.21	3.00	2.78
0.66	3.42	3.17	2.91
0.33	3.46	3.28	3.02
0.00	3.74	3.36	3.00

COSEL

Model	MGS6243R3	Temperature	25°C																																																				
Item	Switching Frequency (by Load Current)	Testing Circuitry	Figure A																																																				
Object	+3.3V1.6A																																																						
1.Graph	<p>—△— Input Volt. 18V - - - □ - - Input Volt. 24V - - ○ - - Input Volt. 36V</p> <table border="1"> <caption>Data points estimated from Graph 1</caption> <thead> <tr> <th>Load Current [A]</th> <th>18V [kHz]</th> <th>24V [kHz]</th> <th>36V [kHz]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>899</td><td>959</td><td>934</td></tr> <tr><td>0.32</td><td>603</td><td>683</td><td>764</td></tr> <tr><td>0.64</td><td>458</td><td>532</td><td>614</td></tr> <tr><td>0.96</td><td>368</td><td>435</td><td>514</td></tr> <tr><td>1.28</td><td>308</td><td>368</td><td>442</td></tr> <tr><td>1.60</td><td>264</td><td>319</td><td>387</td></tr> <tr><td>1.76</td><td>247</td><td>299</td><td>364</td></tr> </tbody> </table>				Load Current [A]	18V [kHz]	24V [kHz]	36V [kHz]	0.0	899	959	934	0.32	603	683	764	0.64	458	532	614	0.96	368	435	514	1.28	308	368	442	1.60	264	319	387	1.76	247	299	364																			
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COSEL

