

# TEST DATA OF SUW62412 SUCW62412

Regulated DC Power Supply  
Feb 24, 2005

Approved by : Tetsuo Sugimori  
Tetsuo Sugimori Design Manager

Prepared by : Yoshikazu Mizuno  
Yoshikazu Mizuno Design Engineer

**COSEL CO.,LTD.**

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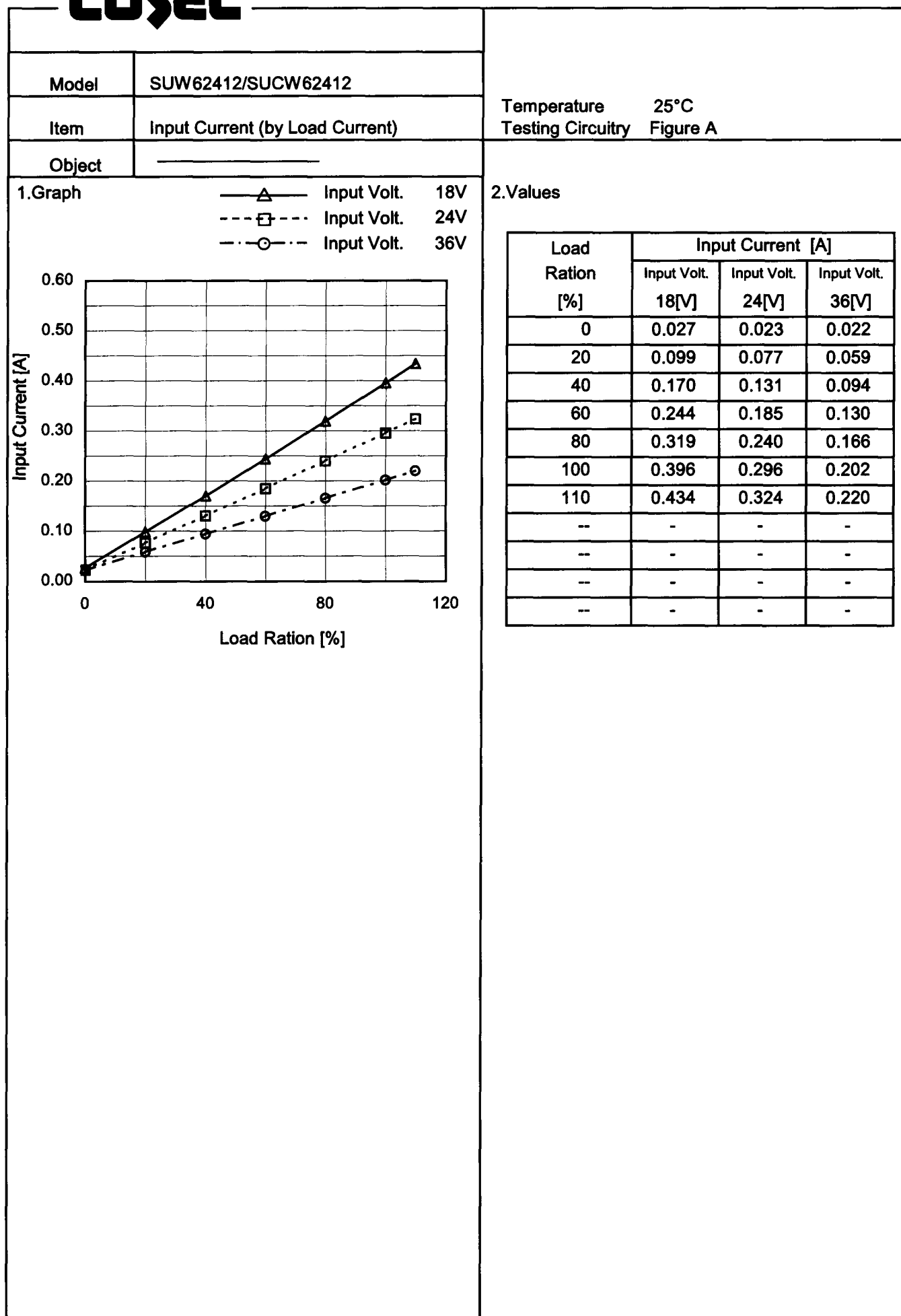
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Model		SUW62412/SUCW62412																																																																								
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1.Graph <div><div><div><div></div></div><div>Load 100%</div></div><div><div><div></div></div><div>Load 50%</div></div><div><div><div></div></div><div>Load 0%</div></div></div> <div><div><div>Input Current [A]</div><div>0.6</div><div>0.5</div><div>0.4</div><div>0.3</div><div>0.2</div><div>0.1</div><div>0.0</div></div><div><div>0</div><div>10</div><div>20</div><div>30</div><div>40</div></div><div><div>Input Voltage [V]</div></div></div> <div>Note: Slanted line shows the range of the rated input voltage.</div>																																																																										
2.Values <div><table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Load 0%</th><th>Load 50%</th><th>Load 100%</th></tr><tr><td>0.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>4.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>8.0</td><td>0.001</td><td>0.001</td><td>0.001</td></tr><tr><td>12.0</td><td>0.001</td><td>0.001</td><td>0.001</td></tr><tr><td>15.2</td><td>0.029</td><td>0.244</td><td>0.476</td></tr><tr><td>16.0</td><td>0.028</td><td>0.232</td><td>0.450</td></tr><tr><td>18.0</td><td>0.027</td><td>0.207</td><td>0.399</td></tr><tr><td>20.0</td><td>0.025</td><td>0.187</td><td>0.358</td></tr><tr><td>24.0</td><td>0.023</td><td>0.158</td><td>0.299</td></tr><tr><td>28.0</td><td>0.022</td><td>0.137</td><td>0.258</td></tr><tr><td>32.0</td><td>0.022</td><td>0.123</td><td>0.227</td></tr><tr><td>36.0</td><td>0.022</td><td>0.112</td><td>0.204</td></tr><tr><td>40.0</td><td>0.023</td><td>0.103</td><td>0.186</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></table></div>				Input Voltage [V]	Input Current [A]			Load 0%	Load 50%	Load 100%	0.0	0.000	0.000	0.000	4.0	0.000	0.000	0.000	8.0	0.001	0.001	0.001	12.0	0.001	0.001	0.001	15.2	0.029	0.244	0.476	16.0	0.028	0.232	0.450	18.0	0.027	0.207	0.399	20.0	0.025	0.187	0.358	24.0	0.023	0.158	0.299	28.0	0.022	0.137	0.258	32.0	0.022	0.123	0.227	36.0	0.022	0.112	0.204	40.0	0.023	0.103	0.186	--	-	-	-	--	-	-	-	--	-	-	-
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Model SUW62412/SUCW62412

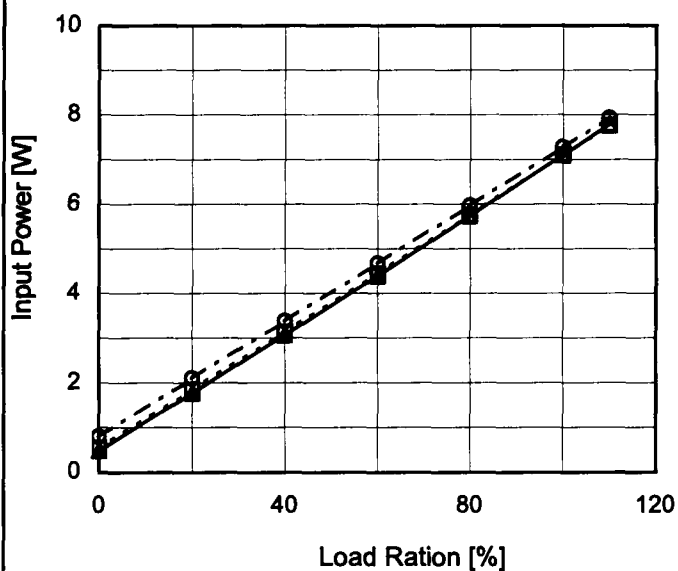
Item Input Power (by Load Current)

Object

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph

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



## 2. Values

Load Ration [%]	Input Power [W]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0	0.48	0.55	0.80
20	1.77	1.85	2.10
40	3.07	3.14	3.39
60	4.39	4.44	4.68
80	5.73	5.76	5.97
100	7.10	7.10	7.27
110	7.79	7.77	7.93
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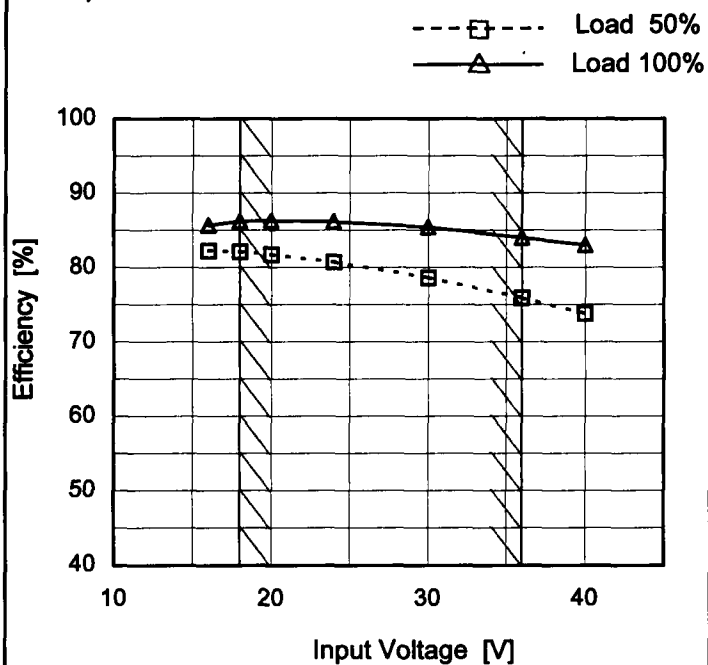
Model SUW62412/SUCW62412

Item Efficiency (by Input Voltage)

Object

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph

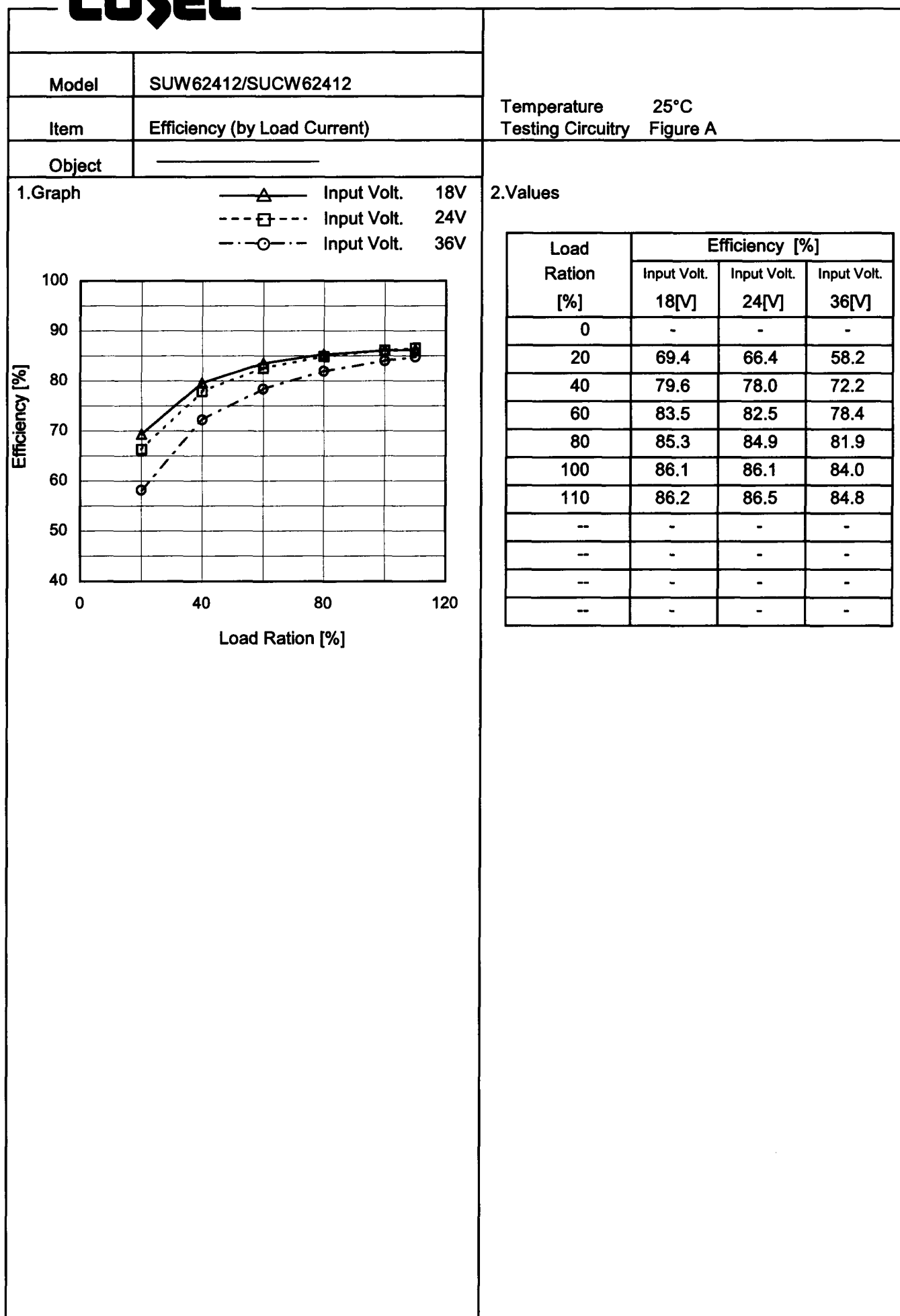


Note: Slanted line shows the range of the rated input voltage.

## 2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
16	82.2	85.7
18	82.1	86.2
20	81.7	86.3
24	80.8	86.2
30	78.6	85.4
36	75.9	84.0
40	73.8	83.0
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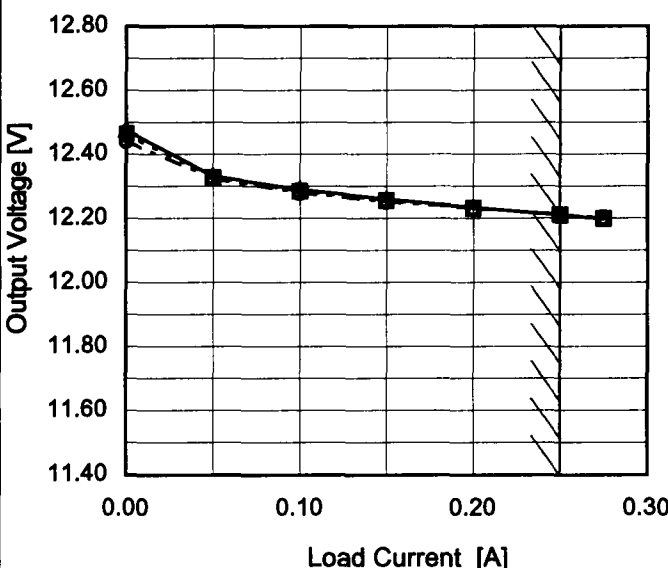
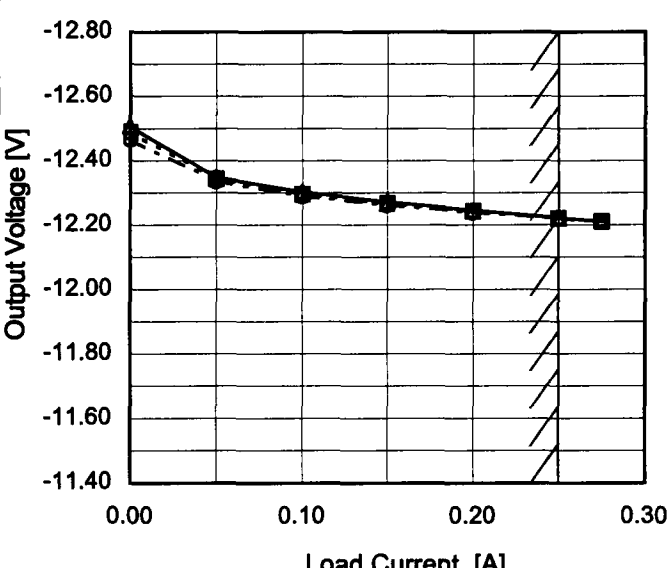
Model		SUW62412/SUCW62412																																	
Item		Line Regulation																																	
Object		+12V0.25A																																	
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Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
16	12.277	12.211																																	
18	12.275	12.212																																	
20	12.274	12.212																																	
24	12.271	12.212																																	
30	12.268	12.212																																	
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Input Voltage [V]	Output Voltage [V]																																		
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Note: Slanted line shows the range of the rated input voltage.																																			

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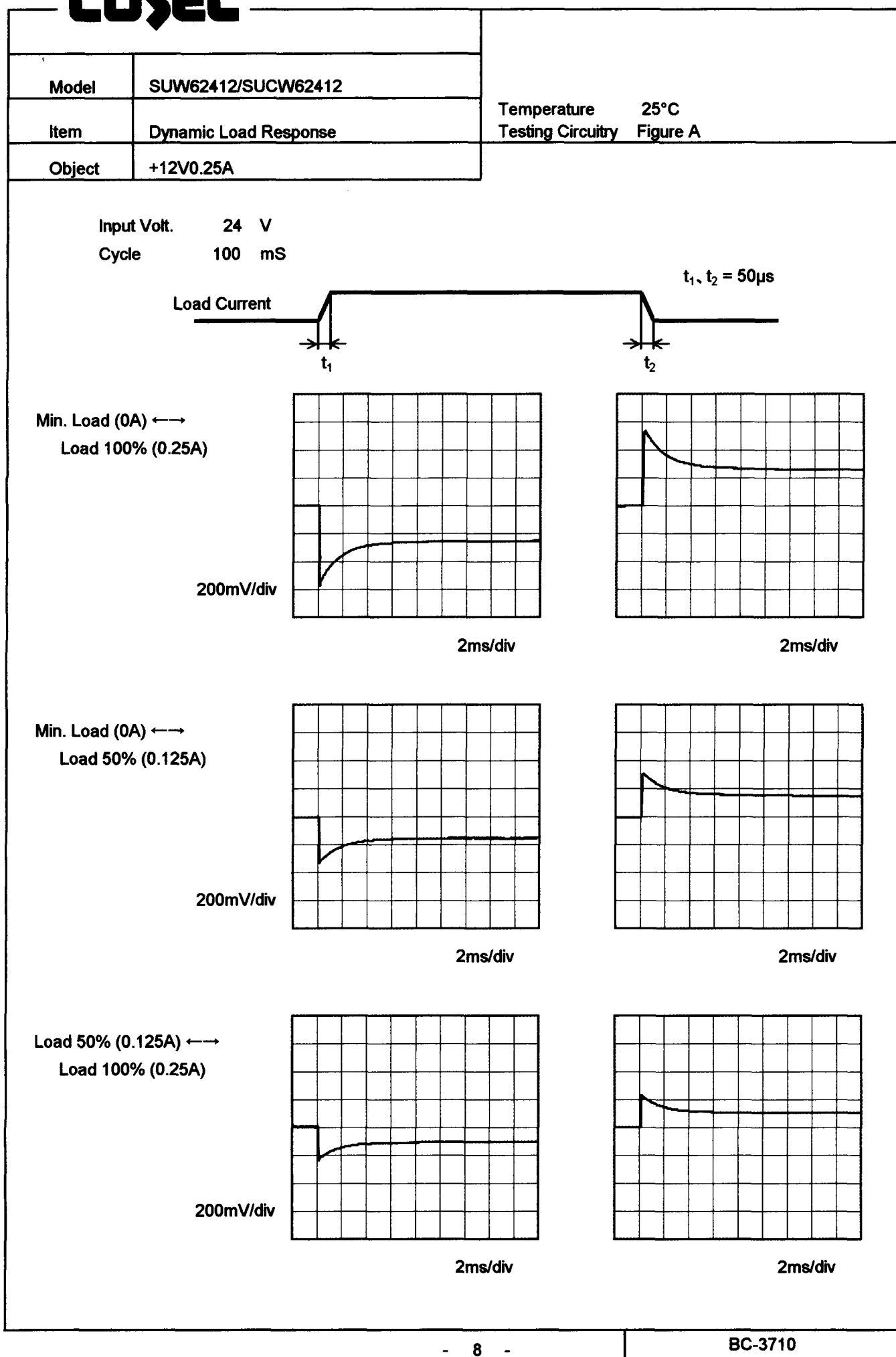




Model		SUW62412/SUCW62412		Temperature 25°C	
Item		Load Regulation		Testing Circuitry Figure A	
Object		+12V0.25A		2.Values	
1.Graph		<div><div>—△— Input Volt. 18V</div><div>---□--- Input Volt. 24V</div><div>-·-○-·- Input Volt. 36V</div></div> 			
Object		-12V0.25A		2.Values	
1.Graph		<div><div>—△— Input Volt. 18V</div><div>---□--- Input Volt. 24V</div><div>-·-○-·- Input Volt. 36V</div></div> 			
Note: Slanted line shows the range of the rated load current.					

Load Current [A]	Output Voltage [V]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.000	12.477	12.464	12.443
0.050	12.333	12.328	12.324
0.100	12.290	12.285	12.280
0.150	12.260	12.256	12.253
0.200	12.234	12.233	12.231
0.250	12.210	12.211	12.211
0.275	12.198	12.201	12.202
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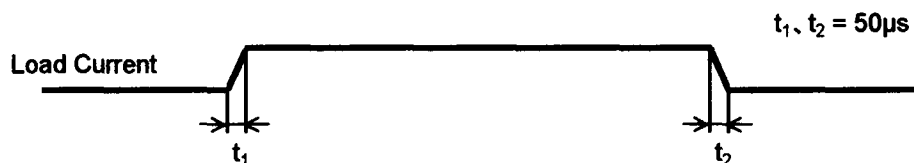
Load Current [A]	Output Voltage [V]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.000	-12.507	-12.490	-12.466
0.050	-12.349	-12.344	-12.336
0.100	-12.303	-12.297	-12.290
0.150	-12.272	-12.267	-12.262
0.200	-12.247	-12.243	-12.240
0.250	-12.223	-12.221	-12.220
0.275	-12.211	-12.212	-12.211
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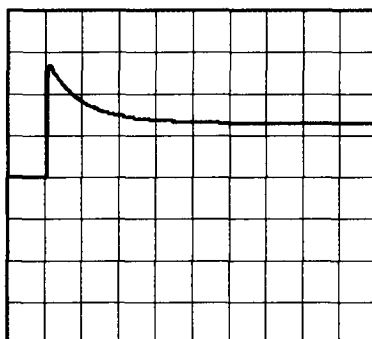
Model	SUW62412/SUCW62412	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	-12V0.25A		

Input Volt. 24 V  
Cycle 100 mS

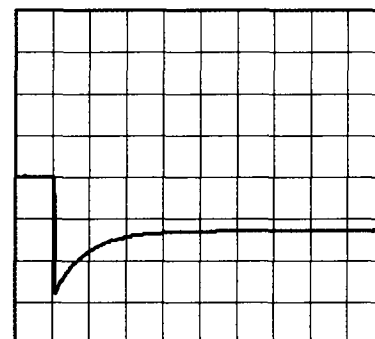


Min. Load (0A)  $\longleftrightarrow$   
Load 100% (0.25A)

200mV/div



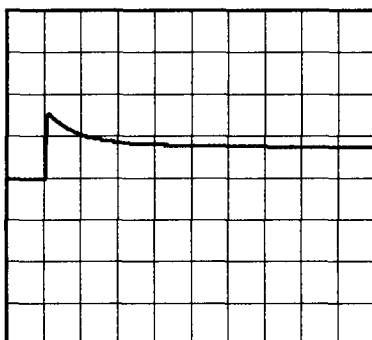
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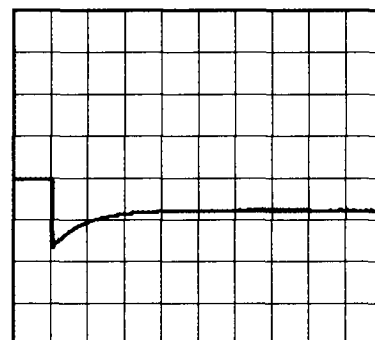
2ms/div

Min. Load (0A)  $\longleftrightarrow$   
Load 50% (0.125A)

200mV/div



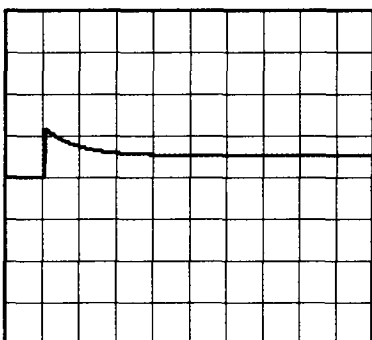
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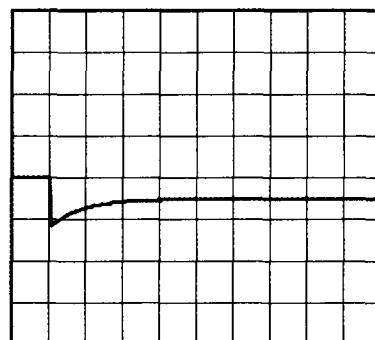
2ms/div

Load 50% (0.125A)  $\longleftrightarrow$   
Load 100% (0.25A)

200mV/div



2ms/div



2ms/div

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Model	SUW62412/SUCW62412		
Item	Ripple Voltage (by Load Current)		Temperature 25°C
Object	+12V0.25A		Testing Circuitry Figure B
1.Graph		2.Values	
<div><div><div><div><div></div><div>—△—</div><div>Input Volt. 18V</div></div><div><div></div><div>---○---</div><div>Input Volt. 36V</div></div></div><div><div><div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>Ripple Voltage [mV]</div><div></div><div></div><div></div><div></div><div></div></div><div><div>0.00</div><div>0.10</div><div>0.20</div><div>0.30</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><d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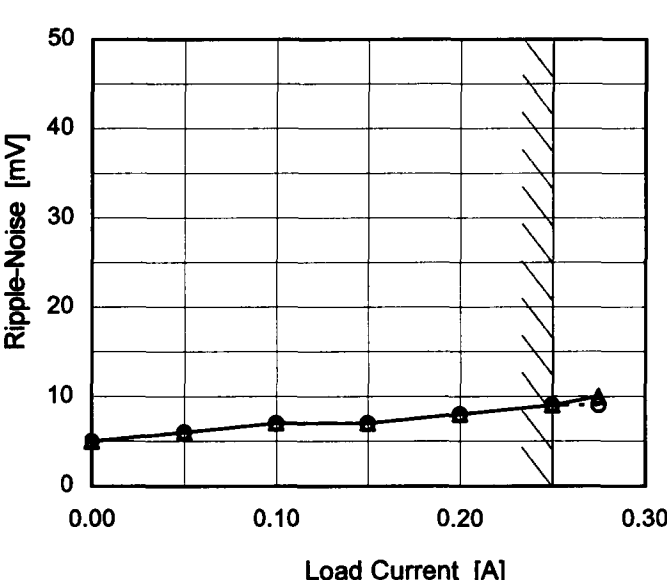
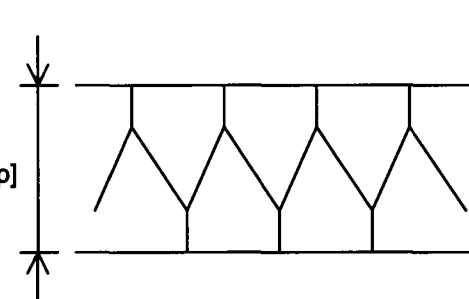
# COSEL

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<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> <div><div>Ripple [mVp-p]</div><p>Fig.Complex Ripple Wave Form</p></div>																																																																													

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Model		SUW62412/SUCW62412	
Item		Ripple-Noise	
Object		+12V0.25A	
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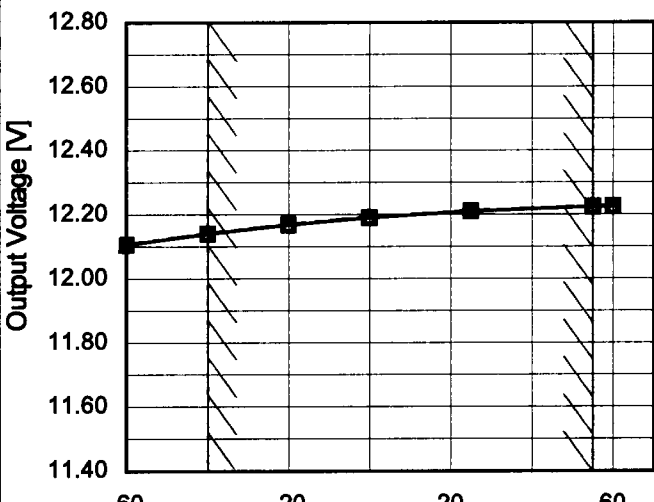
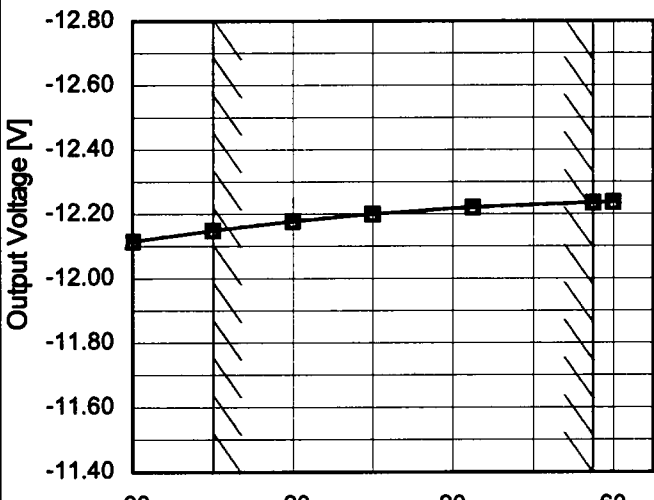
Model		SUW62412/SUCW62412		Temperature 25°C																																							
Item		Ripple-Noise		Testing Circuitry Figure B																																							
Object		-12V0.25A																																									
1.Graph				2.Values																																							
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<p>Measured by 100 MHz Oscilloscope.</p> <p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <div><div><div></div><div>Ripple Noise[mVp-p]</div></div><div></div></div> <p>Fig.Complex Ripple Noise Wave Form</p>																																											
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Model		SUW62412/SUCW62412																																							
Item		Ripple Voltage (by Ambient Temp.)																																							
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<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>—△—    Input Volt.    18V ---□---    Input Volt.    24V -·-○-·-    Input Volt.    36V</div></div> <div><p>Output Voltage [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</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><tr><td>-60</td><td>-12.115</td><td>-12.115</td><td>-12.114</td></tr><tr><td>-40</td><td>-12.149</td><td>-12.149</td><td>-12.149</td></tr><tr><td>-20</td><td>-12.177</td><td>-12.178</td><td>-12.178</td></tr><tr><td>0</td><td>-12.200</td><td>-12.200</td><td>-12.200</td></tr><tr><td>25</td><td>-12.222</td><td>-12.221</td><td>-12.220</td></tr><tr><td>55</td><td>-12.236</td><td>-12.235</td><td>-12.234</td></tr><tr><td>60</td><td>-12.238</td><td>-12.237</td><td>-12.236</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></table>			Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	-60	-12.115	-12.115	-12.114	-40	-12.149	-12.149	-12.149	-20	-12.177	-12.178	-12.178	0	-12.200	-12.200	-12.200	25	-12.222	-12.221	-12.220	55	-12.236	-12.235	-12.234	60	-12.238	-12.237	-12.236	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]																																																				
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-40	-12.149	-12.149	-12.149																																																				
-20	-12.177	-12.178	-12.178																																																				
0	-12.200	-12.200	-12.200																																																				
25	-12.222	-12.221	-12.220																																																				
55	-12.236	-12.235	-12.234																																																				
60	-12.238	-12.237	-12.236																																																				
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Note: Slanted line shows the range of the rated ambient temperature.																																																							

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BC-3710



Model		SUW62412/SUCW62412	Testing Circuitry Figure A			
Item		Output Voltage Accuracy				

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 - 55°C  
Input Voltage : 18 - 36V  
Load Current (AVR 1) : 0 - 0.25A (AVR 2): 0 - 0.25A

\* Other Output : Rated Load

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

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

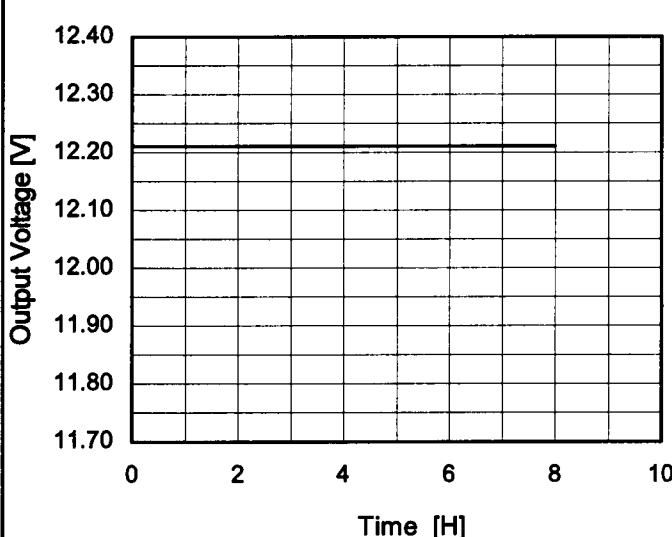
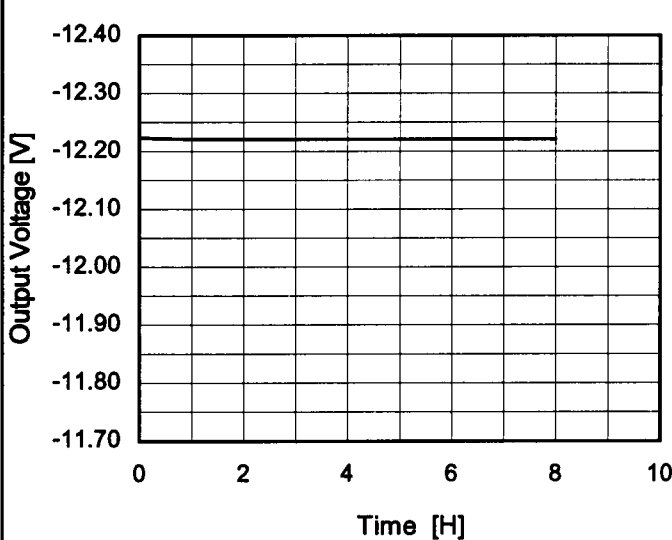
2. Values

Object		+12V0.25A				
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	18	0	12.502	±181	±1.5
Minimum Voltage	-40	18	0.25	12.140		

Object		-12V0.25A				
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	18	0	-12.528	±190	±1.6
Minimum Voltage	-40	18	0.25	-12.149		

**COSEL**

Model	SUW62412/SUCW62412																								
Item	Time Lapse Drift																								
Object	+12V0.25A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 24V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>12.213</td></tr><tr><td>0.5</td><td>12.211</td></tr><tr><td>1.0</td><td>12.211</td></tr><tr><td>2.0</td><td>12.211</td></tr><tr><td>3.0</td><td>12.211</td></tr><tr><td>4.0</td><td>12.211</td></tr><tr><td>5.0</td><td>12.211</td></tr><tr><td>6.0</td><td>12.211</td></tr><tr><td>7.0</td><td>12.211</td></tr><tr><td>8.0</td><td>12.211</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	12.213	0.5	12.211	1.0	12.211	2.0	12.211	3.0	12.211	4.0	12.211	5.0	12.211	6.0	12.211	7.0	12.211	8.0	12.211
Time since start [H]	Output Voltage [V]																								
0.0	12.213																								
0.5	12.211																								
1.0	12.211																								
2.0	12.211																								
3.0	12.211																								
4.0	12.211																								
5.0	12.211																								
6.0	12.211																								
7.0	12.211																								
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<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 24V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-12.223</td></tr><tr><td>0.5</td><td>-12.222</td></tr><tr><td>1.0</td><td>-12.221</td></tr><tr><td>2.0</td><td>-12.221</td></tr><tr><td>3.0</td><td>-12.221</td></tr><tr><td>4.0</td><td>-12.221</td></tr><tr><td>5.0</td><td>-12.221</td></tr><tr><td>6.0</td><td>-12.221</td></tr><tr><td>7.0</td><td>-12.221</td></tr><tr><td>8.0</td><td>-12.221</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-12.223	0.5	-12.222	1.0	-12.221	2.0	-12.221	3.0	-12.221	4.0	-12.221	5.0	-12.221	6.0	-12.221	7.0	-12.221	8.0	-12.221
Time since start [H]	Output Voltage [V]																								
0.0	-12.223																								
0.5	-12.222																								
1.0	-12.221																								
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6.0	-12.221																								
7.0	-12.221																								
8.0	-12.221																								

# COSEL

Model SUW62412/SUCW62412

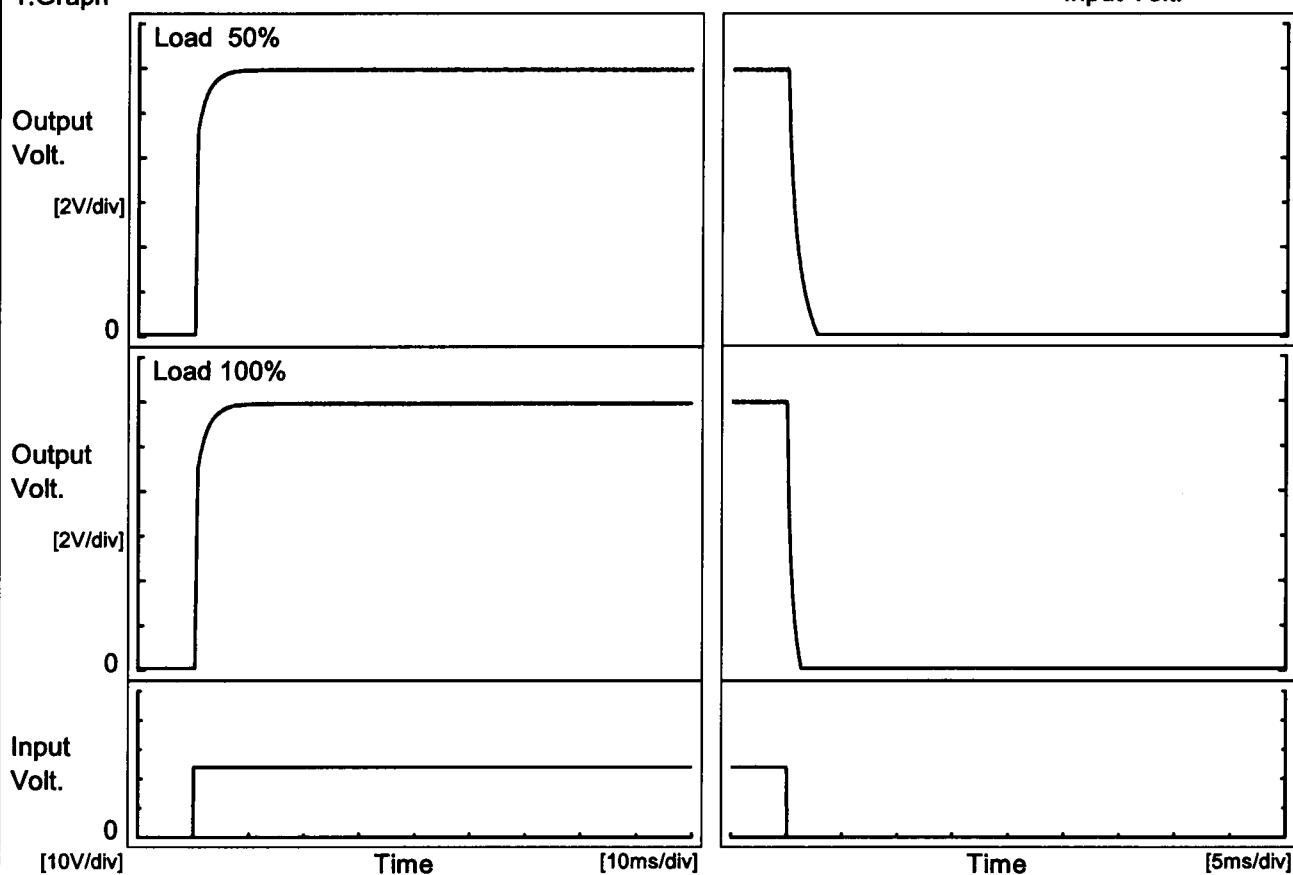
Item Rise and Fall Time

Temperature 25°C  
Testing Circuitry Figure A

Object +12V0.25A

## 1.Graph

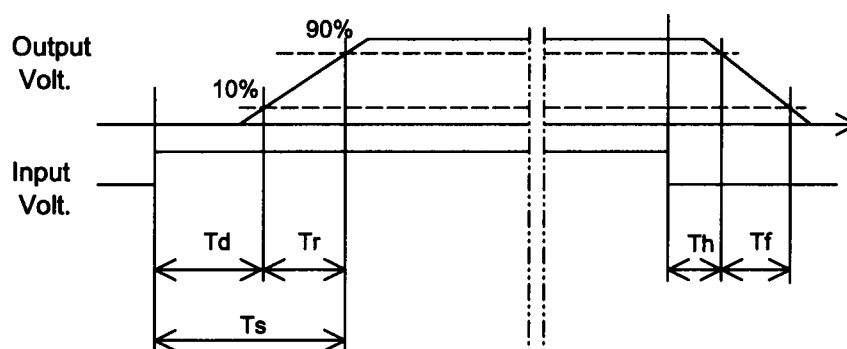
Input Volt. 24 V



## 2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.3	2.1	2.4	0.1	1.8
100 %	0.3	2.4	2.7	0.1	0.9



# COSEL

Model

SUW62412/SUCW62412

Item

Rise and Fall Time

Temperature

25°C

Testing Circuitry

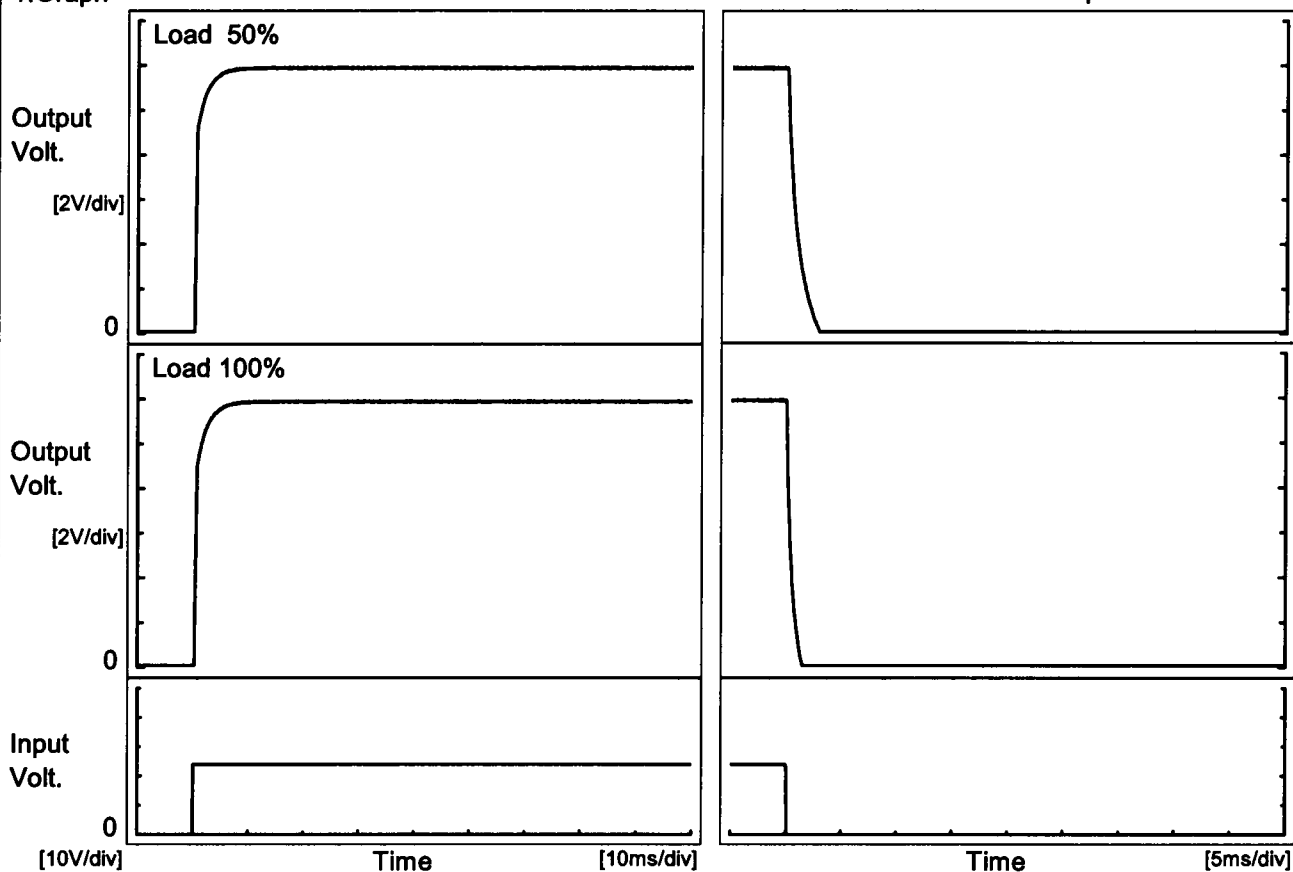
Figure A

Object

-12V0.25A

## 1. Graph

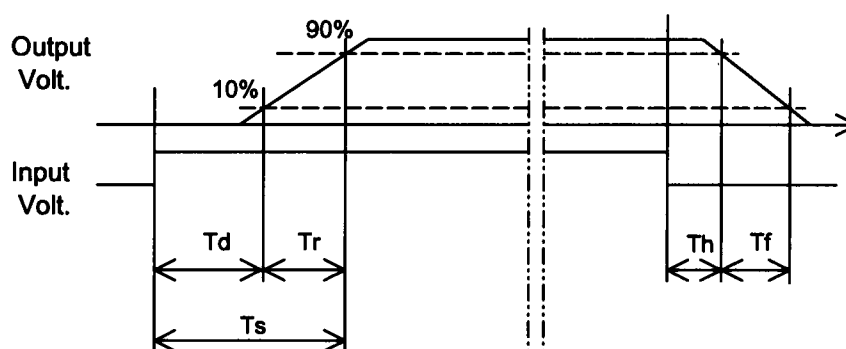
Input Volt. 24 V



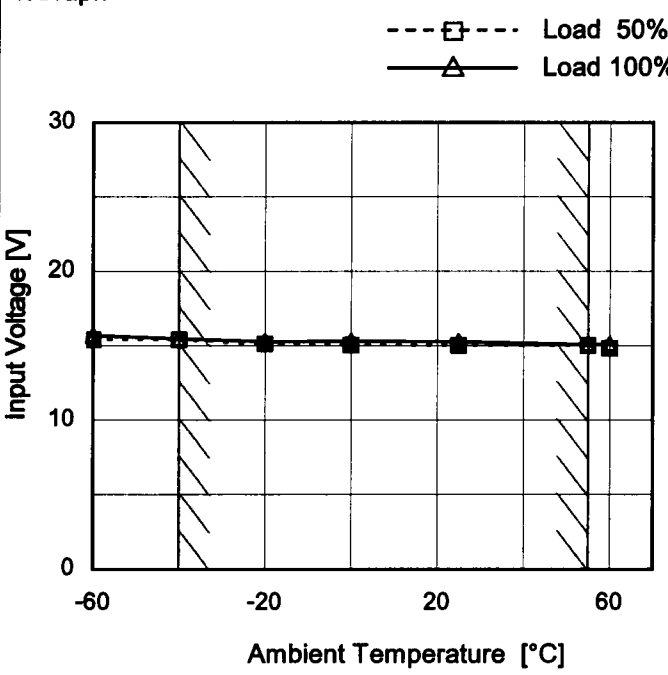
## 2. Values

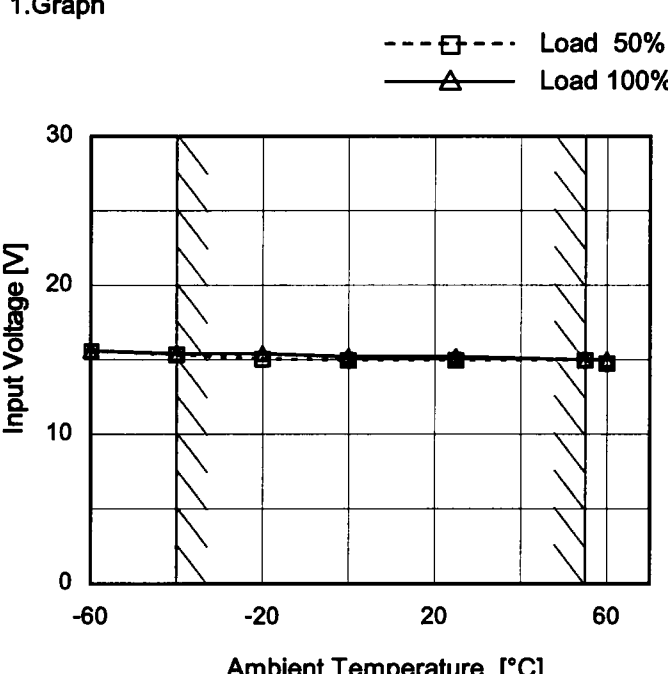
[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.3	2.2	2.5	0.1	2.0
100 %	0.3	2.5	2.8	0.1	1.0



# COSEL

Model		SUW62412/SUCW62412	
Item		Minimum Input Voltage for Regulated Output Voltage	
Object		+12V0.25A	
1.Graph			
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div><div>---</div><div>△</div><div>---</div></div><div>Load 100%</div></div></div> 			
2.Values			
Ambient Temperature [°C]		Input Voltage [V]	
		Load 50%	Load 100%
-60		15.5	15.7
-40		15.5	15.5
-20		15.2	15.3
0		15.1	15.3
25		15.1	15.3
55		15.1	15.1
60		14.9	15.1
--		-	-
--		-	-
--		-	-
--		-	-

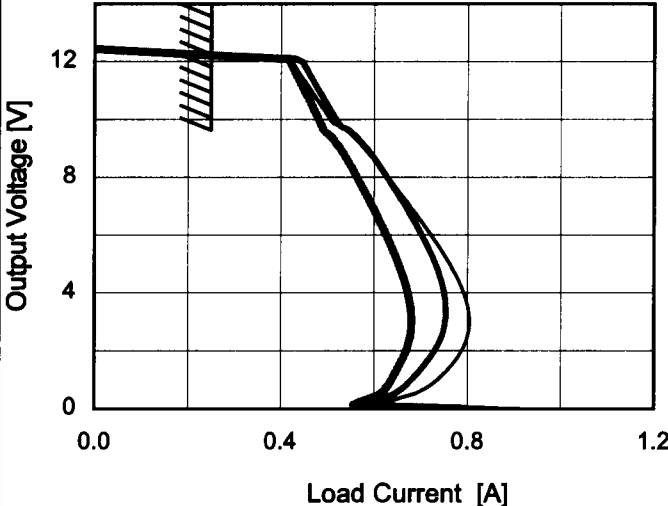
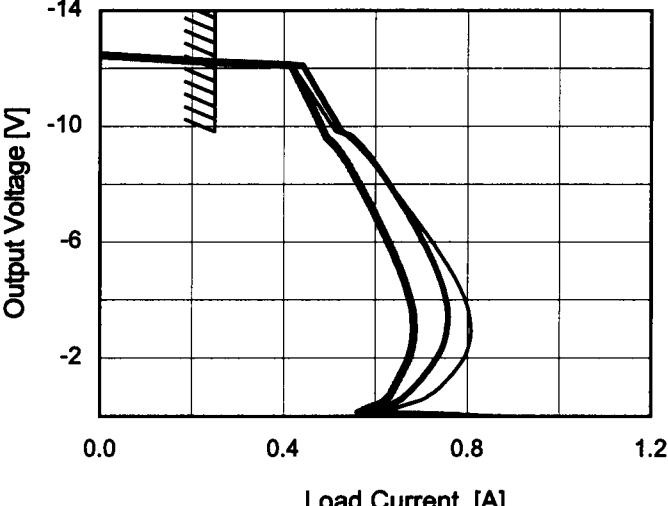
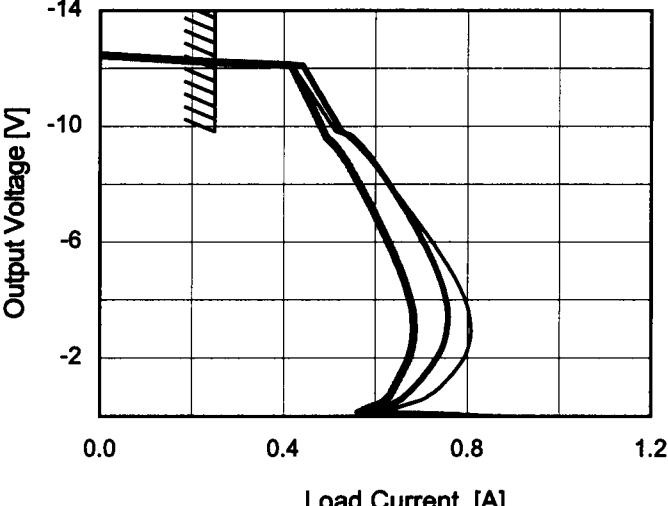
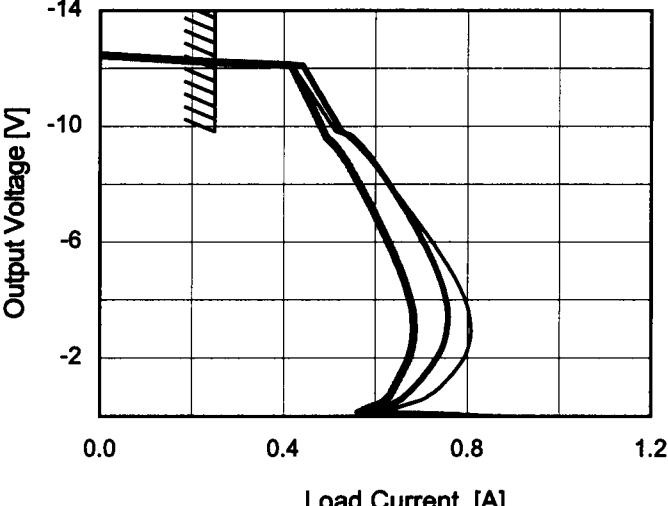
Object		-12V0.25A	
1.Graph			
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div><div>---</div><div>△</div><div>---</div></div><div>Load 100%</div></div></div> 			
2.Values			
Ambient Temperature [°C]		Input Voltage [V]	
		Load 50%	Load 100%
-60		15.6	15.6
-40		15.4	15.4
-20		15.1	15.5
0		15.0	15.3
25		15.0	15.3
55		15.0	15.0
60		14.8	15.0
--		-	-
--		-	-
--		-	-
--		-	-

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

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BC-3710

# COSEL

Model		SUW62412/SUCW62412																																																																																																																																			
Item		Overcurrent Protection																																																																																																																																			
Object		+12V0.25A																																																																																																																																			
1.Graph		<div><div><div></div><div></div><div></div></div><div>Input Volt. 18V</div><div>Input Volt. 24V</div><div>Input Volt. 36V</div></div> <div></div> <tr><td colspan="2">2.Values</td><td colspan="2"><table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>12.0</td><td>0.25</td><td>0.25</td><td>0.25</td></tr><tr><td>11.4</td><td>0.45</td><td>0.47</td><td>0.44</td></tr><tr><td>10.8</td><td>0.47</td><td>0.49</td><td>0.46</td></tr><tr><td>9.6</td><td>0.55</td><td>0.55</td><td>0.49</td></tr><tr><td>8.4</td><td>0.61</td><td>0.61</td><td>0.55</td></tr><tr><td>7.2</td><td>0.67</td><td>0.66</td><td>0.59</td></tr><tr><td>6.0</td><td>0.72</td><td>0.70</td><td>0.63</td></tr><tr><td>4.8</td><td>0.77</td><td>0.74</td><td>0.66</td></tr><tr><td>3.6</td><td>0.80</td><td>0.75</td><td>0.68</td></tr><tr><td>2.4</td><td>0.80</td><td>0.74</td><td>0.68</td></tr><tr><td>1.2</td><td>0.75</td><td>0.69</td><td>0.65</td></tr><tr><td>0.0</td><td>0.91</td><td>0.84</td><td>0.80</td></tr></table></td></tr> <tr><td colspan="2">Object</td><td colspan="2">-12V0.25A</td></tr> <tr><td colspan="2">1.Graph</td><td colspan="2"><div><div><div></div><div></div><div></div></div><div>Input Volt. 18V</div><div>Input Volt. 24V</div><div>Input Volt. 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36[V]	12.0	0.25	0.25	0.25	11.4	0.45	0.47	0.44	10.8	0.47	0.49	0.46	9.6	0.55	0.55	0.49	8.4	0.61	0.61	0.55	7.2	0.67	0.66	0.59	6.0	0.72	0.70	0.63	4.8	0.77	0.74	0.66	3.6	0.80	0.75	0.68	2.4	0.80	0.74	0.68	1.2	0.75	0.69	0.65	0.0	0.91	0.84	0.80	Object		-12V0.25A		1.Graph		<div><div><div></div><div></div><div></div></div><div>Input Volt. 18V</div><div>Input Volt. 24V</div><div>Input Volt. 36V</div></div> <div></div> <tr><td colspan="2">2.Values</td><td colspan="2"><table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 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36[V]	-12.0	0.25	0.25	0.25	-11.4	0.45	0.47	0.44	-10.8	0.47	0.49	0.46	-9.6	0.54	0.55	0.50	-8.4	0.61	0.61	0.55	-7.2	0.67	0.66	0.59	-6.0	0.72	0.70	0.63	-4.8	0.77	0.74	0.66	-3.6	0.80	0.76	0.68	-2.4	0.80	0.75	0.68	-1.2	0.76	0.69	0.65	0.0	0.89	0.82	0.78	Note: Slanted line shows the range of the rated load current.			
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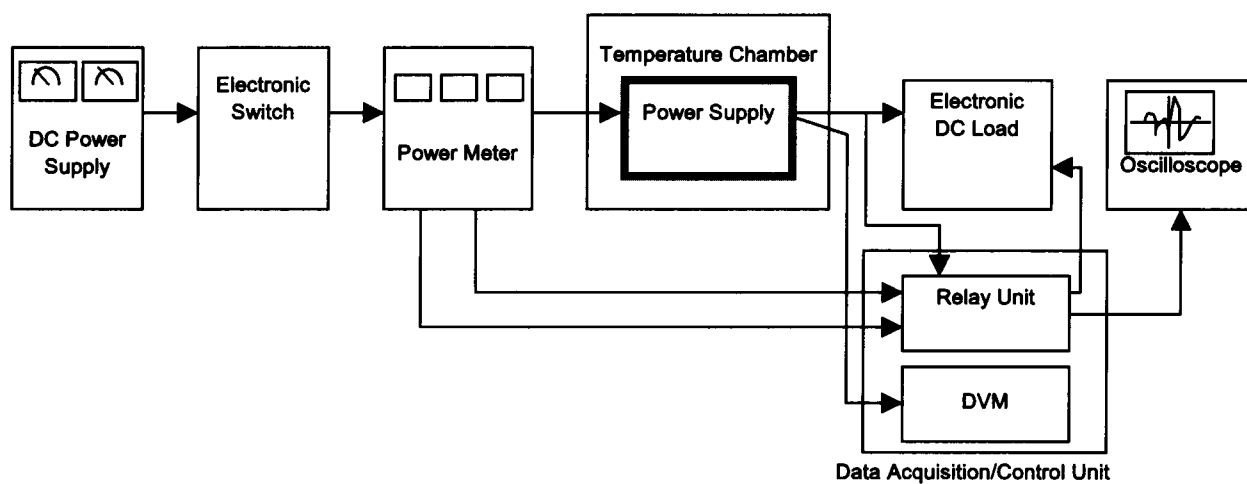


Figure A

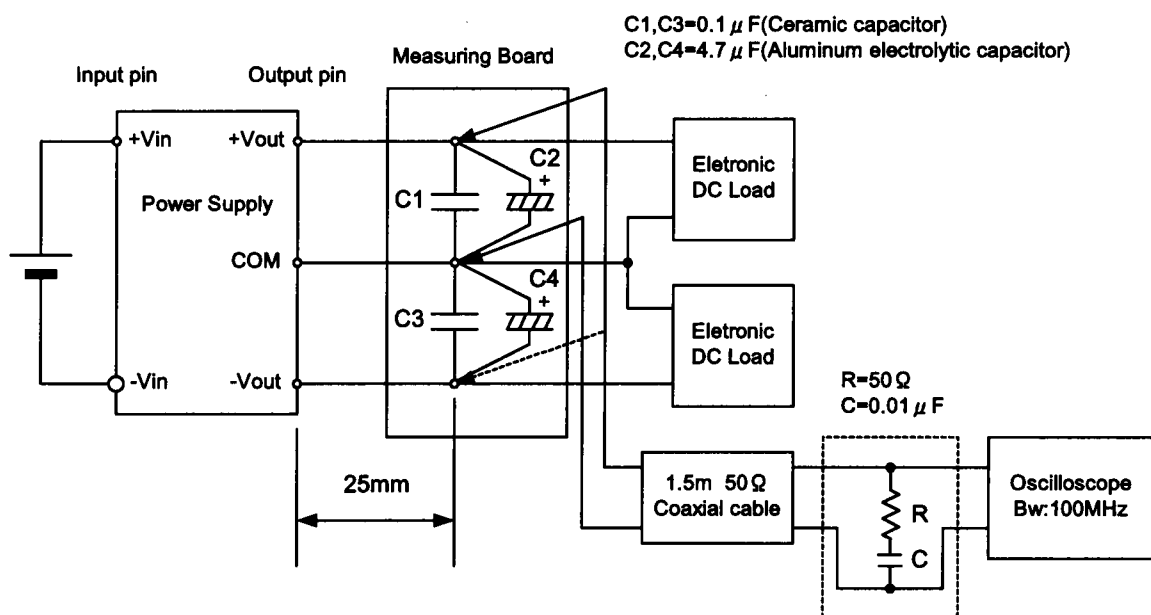


Figure B (Ripple and Ripple noise Characteristic)