



TEST DATA OF SUS34805

Regulated DC Power Supply
Mar 7, 2005

Approved by : Tetsuo Sugimori
Tetsuo Sugimori Design Manager

Prepared by : Hayato Nakatsubo
Hayato Nakatsubo Design Engineer

COSEL CO.,LTD.

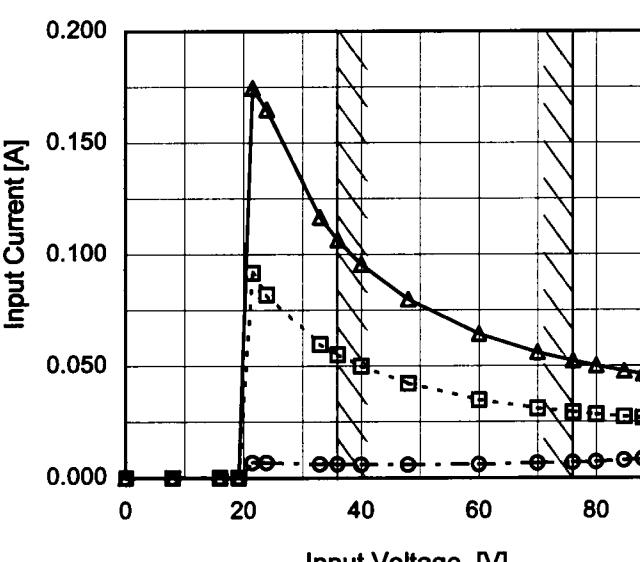


CONTENTS

1.Input Current (by Input Voltage)	1
2.Input Current (by Load Current)	2
3.Input Power (by Load Current)	3
4.Efficiency (by Input Voltage)	4
5.Efficiency (by Load Current)	5
6.Line Regulation	6
7.Load Regulation	7
8.Dynamic Load Response	8
9.Ripple Voltage (by Load Current)	9
10.Ripple-Noise	10
11.Ripple Voltage (by Ambient Temperature)	11
12.Ambient Temperature Drift	12
13.Output Voltage Accuracy	13
14.Time Lapse Drift	14
15.Rise and Fall Time	15
16.Minimum Input Voltage for Regulated Output Voltage	16
17.Overcurrent Protection	17
18.Figure of Testing Circuitry	18

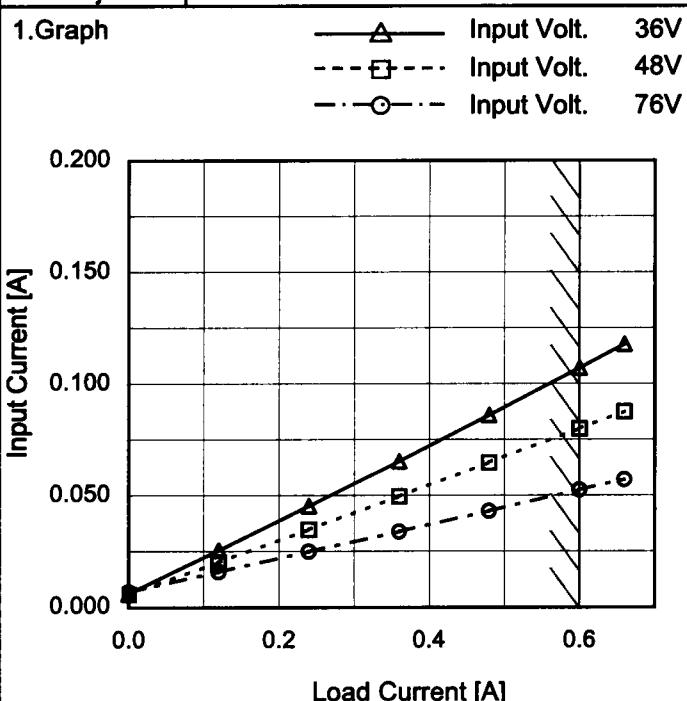
(Final Page 18)

COSEL

Model	SUS34805																																																																																	
Item	Input Current (by Input Voltage)																																																																																	
Object																																																																																		
1.Graph																																																																																		
<p style="text-align: center;"> △ Load 100% □ Load 50% ○ Load 0% </p> 																																																																																		
<p>Note: Slanted line shows the range of the rated input voltage.</p>																																																																																		
Temperature 25°C Testing Circuitry Figure A																																																																																		
2.Values																																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center; padding: 2px;">Input Voltage [V]</th> <th colspan="3" style="text-align: center; padding: 2px;">Input Current [A]</th> </tr> <tr> <th style="text-align: center; padding: 2px;">Load 0%</th> <th style="text-align: center; padding: 2px;">Load 50%</th> <th style="text-align: center; padding: 2px;">Load 100%</th> </tr> </thead> <tbody> <tr><td style="text-align: center; padding: 2px;">0.0</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td></tr> <tr><td style="text-align: center; padding: 2px;">8.0</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td></tr> <tr><td style="text-align: center; padding: 2px;">16.0</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td></tr> <tr><td style="text-align: center; padding: 2px;">19.2</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td><td style="text-align: center; padding: 2px;">0.000</td></tr> <tr><td style="text-align: center; padding: 2px;">21.6</td><td style="text-align: center; padding: 2px;">0.007</td><td style="text-align: center; padding: 2px;">0.092</td><td style="text-align: center; padding: 2px;">0.175</td></tr> <tr><td style="text-align: center; padding: 2px;">24.0</td><td style="text-align: center; padding: 2px;">0.007</td><td style="text-align: center; padding: 2px;">0.082</td><td style="text-align: center; padding: 2px;">0.165</td></tr> <tr><td style="text-align: center; padding: 2px;">33.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.060</td><td style="text-align: center; padding: 2px;">0.117</td></tr> <tr><td style="text-align: center; padding: 2px;">36.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.055</td><td style="text-align: center; padding: 2px;">0.107</td></tr> <tr><td style="text-align: center; padding: 2px;">40.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.050</td><td style="text-align: center; padding: 2px;">0.096</td></tr> <tr><td style="text-align: center; padding: 2px;">48.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.042</td><td style="text-align: center; padding: 2px;">0.080</td></tr> <tr><td style="text-align: center; padding: 2px;">60.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.035</td><td style="text-align: center; padding: 2px;">0.064</td></tr> <tr><td style="text-align: center; padding: 2px;">70.0</td><td style="text-align: center; padding: 2px;">0.006</td><td style="text-align: center; padding: 2px;">0.031</td><td style="text-align: center; padding: 2px;">0.056</td></tr> <tr><td style="text-align: center; padding: 2px;">76.0</td><td style="text-align: center; padding: 2px;">0.007</td><td style="text-align: center; padding: 2px;">0.029</td><td style="text-align: center; padding: 2px;">0.052</td></tr> <tr><td style="text-align: center; padding: 2px;">80.0</td><td style="text-align: center; padding: 2px;">0.007</td><td style="text-align: center; padding: 2px;">0.028</td><td style="text-align: center; padding: 2px;">0.050</td></tr> <tr><td style="text-align: center; padding: 2px;">84.8</td><td style="text-align: center; padding: 2px;">0.008</td><td style="text-align: center; padding: 2px;">0.027</td><td style="text-align: center; padding: 2px;">0.048</td></tr> <tr><td style="text-align: center; padding: 2px;">88.0</td><td style="text-align: center; padding: 2px;">0.008</td><td style="text-align: center; padding: 2px;">0.027</td><td style="text-align: center; padding: 2px;">0.046</td></tr> <tr><td style="text-align: center; padding: 2px;">--</td><td style="text-align: center; padding: 2px;">-</td><td style="text-align: center; padding: 2px;">-</td><td style="text-align: center; padding: 2px;">-</td></tr> <tr><td style="text-align: center; padding: 2px;">--</td><td style="text-align: center; padding: 2px;">-</td><td style="text-align: center; padding: 2px;">-</td><td style="text-align: center; padding: 2px;">-</td></tr> </tbody> </table>				Input Voltage [V]	Input Current [A]			Load 0%	Load 50%	Load 100%	0.0	0.000	0.000	0.000	8.0	0.000	0.000	0.000	16.0	0.000	0.000	0.000	19.2	0.000	0.000	0.000	21.6	0.007	0.092	0.175	24.0	0.007	0.082	0.165	33.0	0.006	0.060	0.117	36.0	0.006	0.055	0.107	40.0	0.006	0.050	0.096	48.0	0.006	0.042	0.080	60.0	0.006	0.035	0.064	70.0	0.006	0.031	0.056	76.0	0.007	0.029	0.052	80.0	0.007	0.028	0.050	84.8	0.008	0.027	0.048	88.0	0.008	0.027	0.046	--	-	-	-	--	-	-	-
Input Voltage [V]	Input Current [A]																																																																																	
	Load 0%	Load 50%	Load 100%																																																																															
0.0	0.000	0.000	0.000																																																																															
8.0	0.000	0.000	0.000																																																																															
16.0	0.000	0.000	0.000																																																																															
19.2	0.000	0.000	0.000																																																																															
21.6	0.007	0.092	0.175																																																																															
24.0	0.007	0.082	0.165																																																																															
33.0	0.006	0.060	0.117																																																																															
36.0	0.006	0.055	0.107																																																																															
40.0	0.006	0.050	0.096																																																																															
48.0	0.006	0.042	0.080																																																																															
60.0	0.006	0.035	0.064																																																																															
70.0	0.006	0.031	0.056																																																																															
76.0	0.007	0.029	0.052																																																																															
80.0	0.007	0.028	0.050																																																																															
84.8	0.008	0.027	0.048																																																																															
88.0	0.008	0.027	0.046																																																																															
--	-	-	-																																																																															
--	-	-	-																																																																															

COSEL

Model	SUS34805
Item	Input Current (by Load Current)
Object	_____



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

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	0.006	0.006	0.007
0.12	0.025	0.020	0.016
0.24	0.045	0.035	0.025
0.36	0.065	0.050	0.034
0.48	0.086	0.065	0.043
0.60	0.107	0.080	0.052
0.66	0.118	0.088	0.057
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

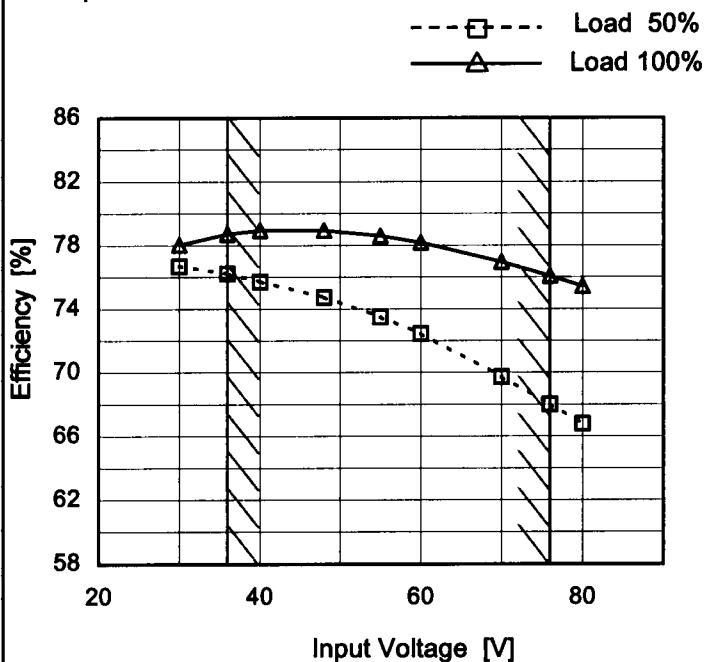
Model	SUS34805	Temperature	25°C																																																			
Item	Input Power (by Load Current)	Testing Circuitry	Figure A																																																			
Object	_____																																																					
1.Graph		2.Values																																																				
<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 36V Input Volt. 48V Input Volt. 76V 		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>36[V]</th> <th>48[V]</th> <th>76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.22</td><td>0.27</td><td>0.52</td></tr> <tr><td>0.12</td><td>0.92</td><td>0.97</td><td>1.20</td></tr> <tr><td>0.24</td><td>1.63</td><td>1.67</td><td>1.89</td></tr> <tr><td>0.36</td><td>2.35</td><td>2.38</td><td>2.58</td></tr> <tr><td>0.48</td><td>3.09</td><td>3.11</td><td>3.28</td></tr> <tr><td>0.60</td><td>3.85</td><td>3.84</td><td>3.99</td></tr> <tr><td>0.66</td><td>4.24</td><td>4.21</td><td>4.35</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]			36[V]	48[V]	76[V]	0.00	0.22	0.27	0.52	0.12	0.92	0.97	1.20	0.24	1.63	1.67	1.89	0.36	2.35	2.38	2.58	0.48	3.09	3.11	3.28	0.60	3.85	3.84	3.99	0.66	4.24	4.21	4.35	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																					
	36[V]	48[V]	76[V]																																																			
0.00	0.22	0.27	0.52																																																			
0.12	0.92	0.97	1.20																																																			
0.24	1.63	1.67	1.89																																																			
0.36	2.35	2.38	2.58																																																			
0.48	3.09	3.11	3.28																																																			
0.60	3.85	3.84	3.99																																																			
0.66	4.24	4.21	4.35																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			

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

COSEL

Model	SUS34805
Item	Efficiency (by Input Voltage)
Object	_____

1. Graph



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

Temperature 25°C
Testing Circuitry Figure A

2. Values

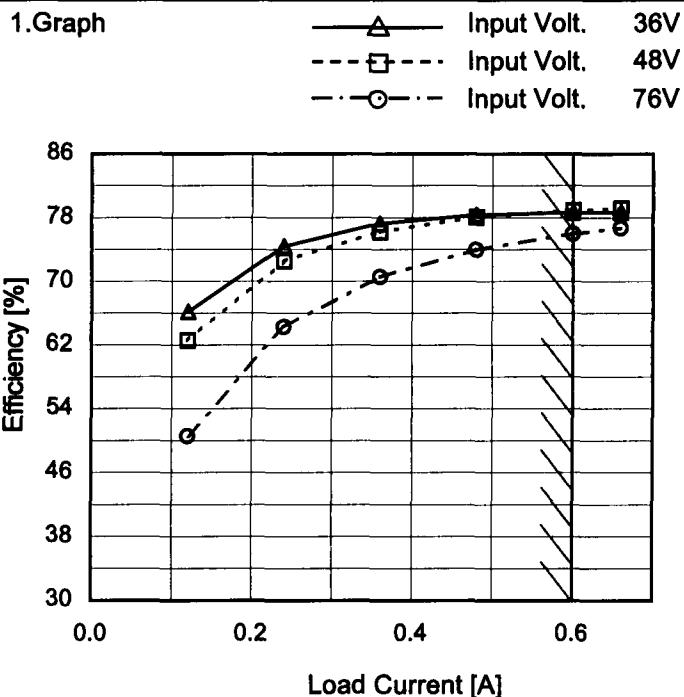
Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
30	76.7	78.0
36	76.2	78.7
40	75.7	78.9
48	74.7	78.9
55	73.5	78.6
60	72.4	78.2
70	69.7	76.9
76	68.0	76.1
80	66.8	75.4

COSEL

Model SUS34805

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	66.2	62.6	50.6
0.24	74.4	72.5	64.3
0.36	77.3	76.2	70.6
0.48	78.4	78.1	74.0
0.60	78.7	78.9	76.0
0.66	78.7	79.2	76.7
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

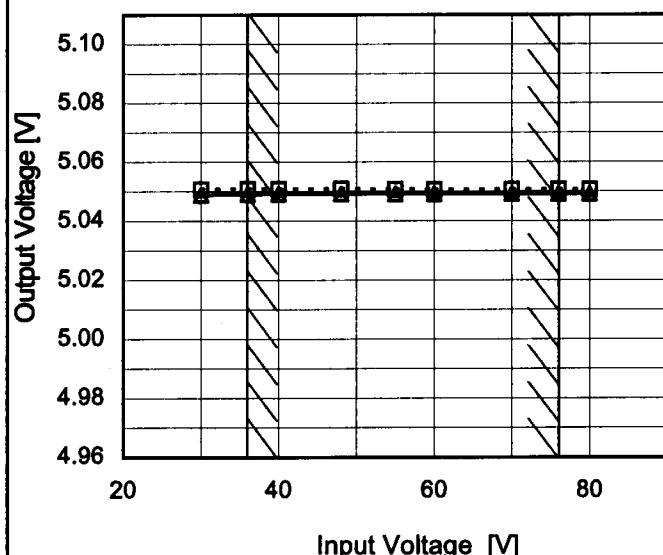
Note: Slanted line shows the range of the rated load current.

COSEL

Model	SUS34805
Item	Line Regulation
Object	+5V0.6A

1. Graph

---□--- Load 50%
—△— Load 100%



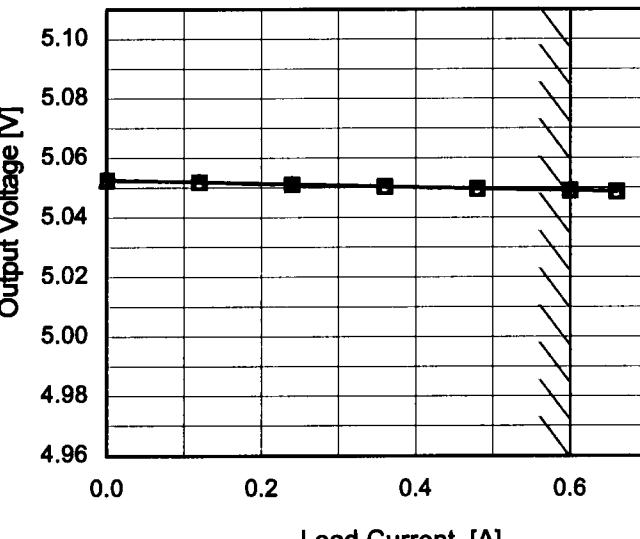
Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
30	5.051	5.049
36	5.051	5.049
40	5.051	5.049
48	5.051	5.049
55	5.051	5.049
60	5.051	5.049
70	5.051	5.049
76	5.051	5.049
80	5.051	5.049

COSEL

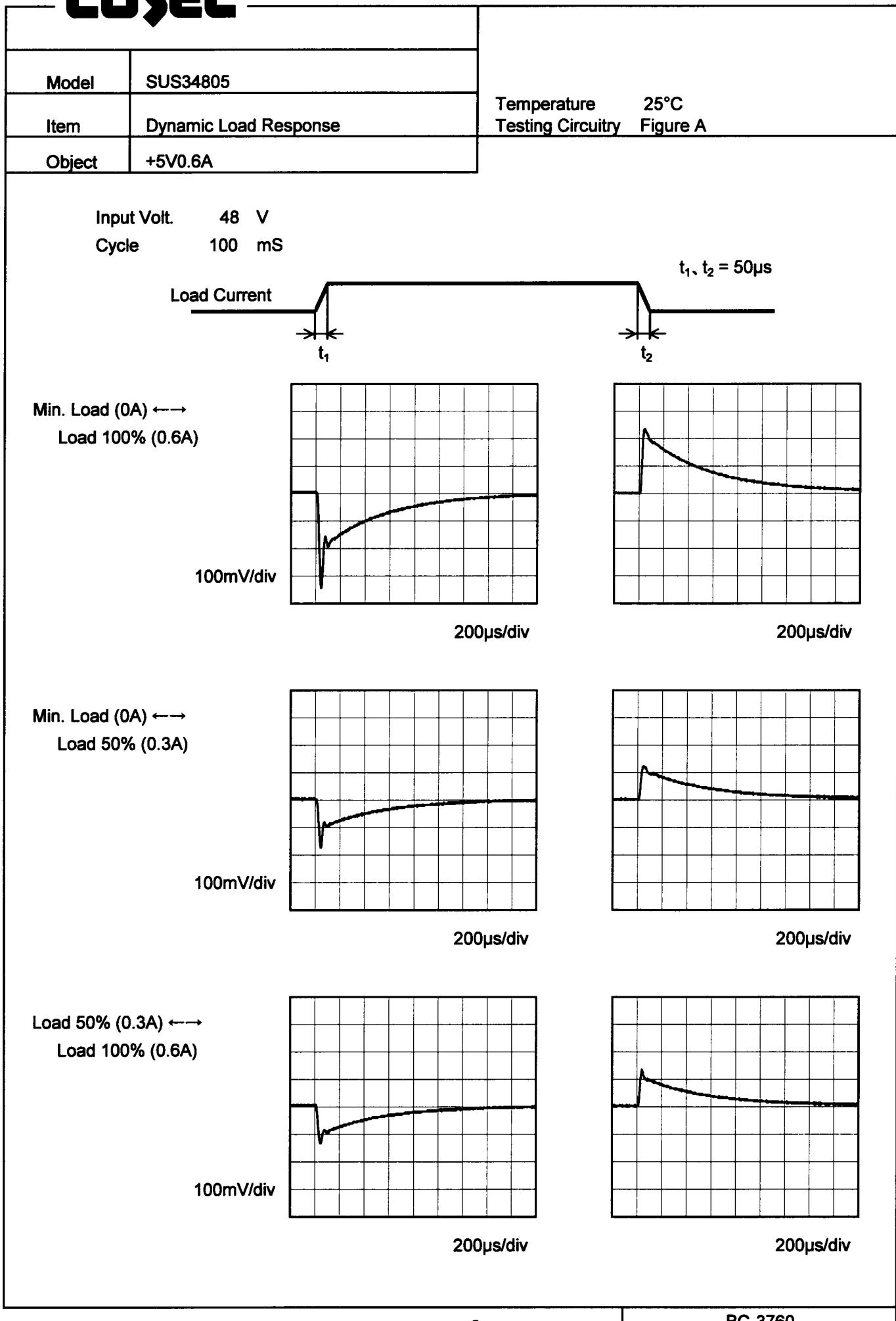
Model	SUS34805
Item	Load Regulation
Object	+5V0.6A
1. Graph	
<p style="text-align: center;"> △ Input Volt. 36V □ Input Volt. 48V ○ Input Volt. 76V </p> 	
<p>Note: Slanted line shows the range of the rated load current.</p>	

 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	5.053	5.053	5.053
0.12	5.052	5.052	5.052
0.24	5.051	5.051	5.051
0.36	5.050	5.050	5.050
0.48	5.050	5.050	5.050
0.60	5.049	5.049	5.049
0.66	5.049	5.049	5.049
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

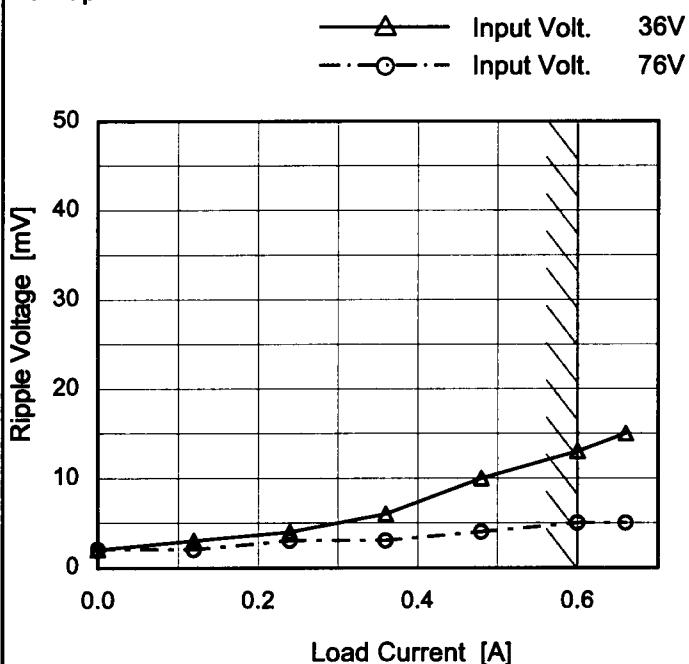


COSEL

Model	SUS34805
Item	Ripple Voltage (by Load Current)
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure B

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	2	2
0.12	3	2
0.24	4	3
0.36	6	3
0.48	10	4
0.60	13	5
0.66	15	5
--	-	-
--	-	-
--	-	-
--	-	-

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.

Ripple [mVp-p]

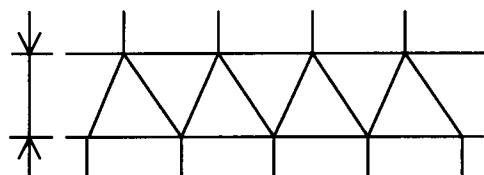
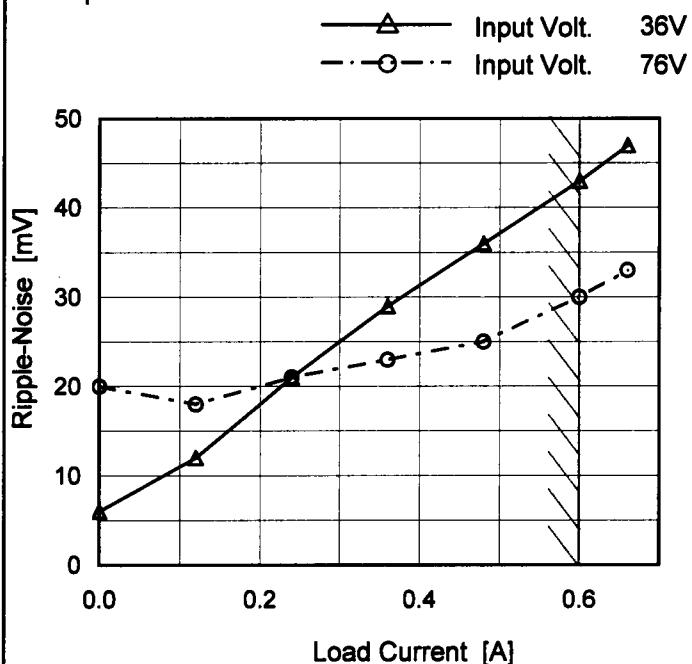


Fig.Complex Ripple Wave Form

COSEL

Model	SUS34805
Item	Ripple-Noise
Object	+5V0.6A

1. Graph



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.

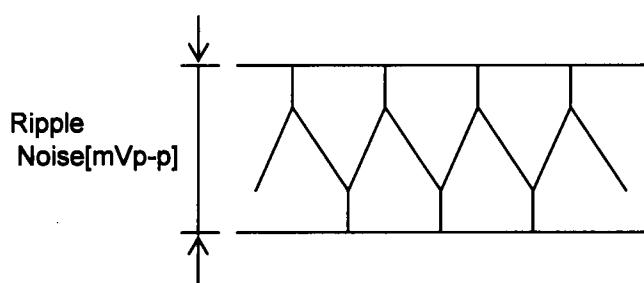


Fig.Complex Ripple Noise Wave Form

Temperature 25°C
Testing Circuitry Figure B

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	6	20
0.12	12	18
0.24	21	21
0.36	29	23
0.48	36	25
0.60	43	30
0.66	47	33
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

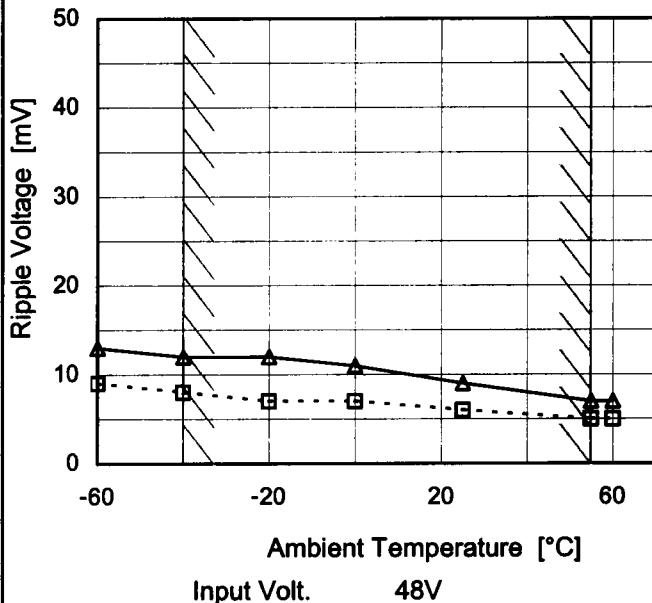
Model SUS34805

Item Ripple Voltage (by Ambient Temp.)

Object +5V0.6A

1. Graph

---□--- Load 50%
 —△— Load 100%



Input Volt. 48V

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	9	13
-40	8	12
-20	7	12
0	7	11
25	6	9
55	5	7
60	5	7
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

<p>Model SUS34805</p> <p>Item Ambient Temperature Drift</p> <p>Object +5V0.6A</p> <p>1. Graph</p> <table border="0"> <tr> <td style="text-align: right; vertical-align: bottom;"> </td><td style="text-align: left; vertical-align: bottom;"> —▲— Input Volt. 36V ---□--- Input Volt. 48V ---○--- Input Volt. 76V </td></tr> </table> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		—▲— Input Volt. 36V ---□--- Input Volt. 48V ---○--- Input Volt. 76V	<p>Testing Circuitry Figure A</p> <p>2. Values</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Ambient Temperature [°C]</th><th colspan="3" style="text-align: center;">Output Voltage [V]</th></tr> <tr> <th style="text-align: center;">Input Volt. 36[V]</th><th style="text-align: center;">Input Volt. 48[V]</th><th style="text-align: center;">Input Volt. 76[V]</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">-60</td><td style="text-align: center;">5.017</td><td style="text-align: center;">5.018</td><td style="text-align: center;">5.019</td></tr> <tr> <td style="text-align: center;">-40</td><td style="text-align: center;">5.028</td><td style="text-align: center;">5.029</td><td style="text-align: center;">5.029</td></tr> <tr> <td style="text-align: center;">-20</td><td style="text-align: center;">5.037</td><td style="text-align: center;">5.038</td><td style="text-align: center;">5.038</td></tr> <tr> <td style="text-align: center;">0</td><td style="text-align: center;">5.044</td><td style="text-align: center;">5.044</td><td style="text-align: center;">5.044</td></tr> <tr> <td style="text-align: center;">25</td><td style="text-align: center;">5.049</td><td style="text-align: center;">5.049</td><td style="text-align: center;">5.049</td></tr> <tr> <td style="text-align: center;">55</td><td style="text-align: center;">5.051</td><td style="text-align: center;">5.051</td><td style="text-align: center;">5.051</td></tr> <tr> <td style="text-align: center;">60</td><td style="text-align: center;">5.050</td><td style="text-align: center;">5.050</td><td style="text-align: center;">5.050</td></tr> <tr> <td style="text-align: center;">--</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr> <td style="text-align: center;">--</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr> <td style="text-align: center;">--</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr> <td style="text-align: center;">--</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	-60	5.017	5.018	5.019	-40	5.028	5.029	5.029	-20	5.037	5.038	5.038	0	5.044	5.044	5.044	25	5.049	5.049	5.049	55	5.051	5.051	5.051	60	5.050	5.050	5.050	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
	—▲— Input Volt. 36V ---□--- Input Volt. 48V ---○--- Input Volt. 76V																																																					
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																			
-60	5.017	5.018	5.019																																																			
-40	5.028	5.029	5.029																																																			
-20	5.037	5.038	5.038																																																			
0	5.044	5.044	5.044																																																			
25	5.049	5.049	5.049																																																			
55	5.051	5.051	5.051																																																			
60	5.050	5.050	5.050																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			



Model	SUS34805	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 - 55°C

Input Voltage : 36 - 76V

Load Current : 0 - 0.6A

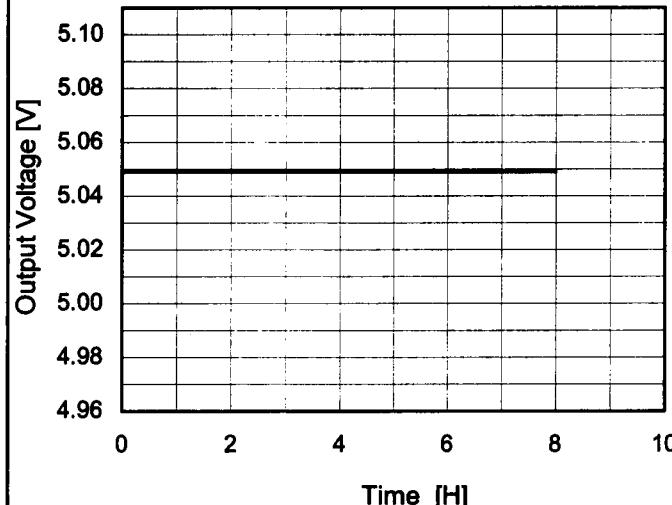
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	76	0	5.055	± 14	± 0.3
Minimum Voltage	-40	36	0.6	5.028		

COSEL

Model	SUS34805	Temperature Testing Circuitry	25°C Figure A																						
Item	Time Lapse Drift																								
Object	+5V0.6A																								
1.Graph			2.Values																						
 <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 48V Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.048</td></tr> <tr><td>0.5</td><td>5.049</td></tr> <tr><td>1.0</td><td>5.049</td></tr> <tr><td>2.0</td><td>5.049</td></tr> <tr><td>3.0</td><td>5.049</td></tr> <tr><td>4.0</td><td>5.049</td></tr> <tr><td>5.0</td><td>5.049</td></tr> <tr><td>6.0</td><td>5.049</td></tr> <tr><td>7.0</td><td>5.049</td></tr> <tr><td>8.0</td><td>5.049</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	5.048	0.5	5.049	1.0	5.049	2.0	5.049	3.0	5.049	4.0	5.049	5.0	5.049	6.0	5.049	7.0	5.049	8.0	5.049
Time since start [H]	Output Voltage [V]																								
0.0	5.048																								
0.5	5.049																								
1.0	5.049																								
2.0	5.049																								
3.0	5.049																								
4.0	5.049																								
5.0	5.049																								
6.0	5.049																								
7.0	5.049																								
8.0	5.049																								

COSEL

Model SUS34805

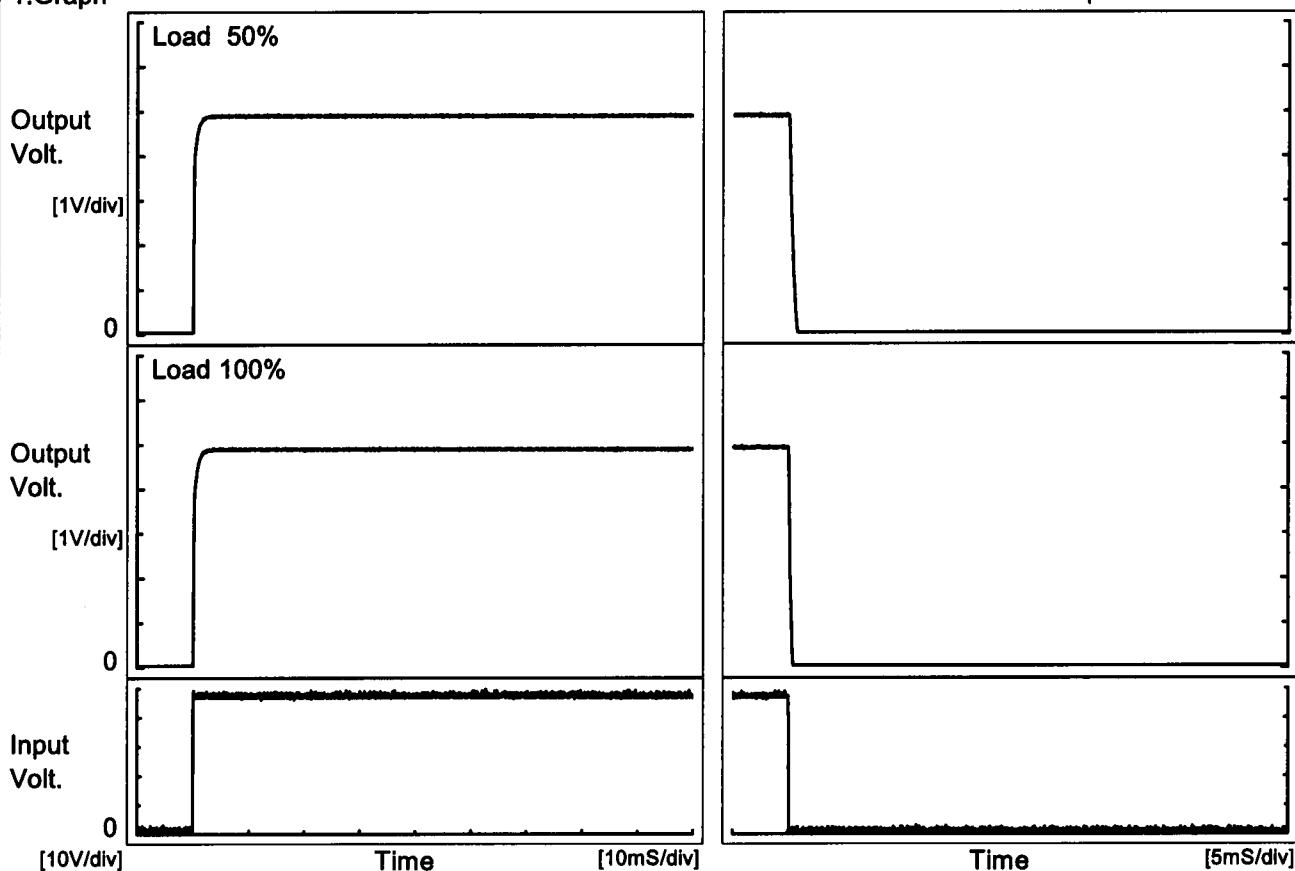
Item Rise and Fall Time

Object +5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

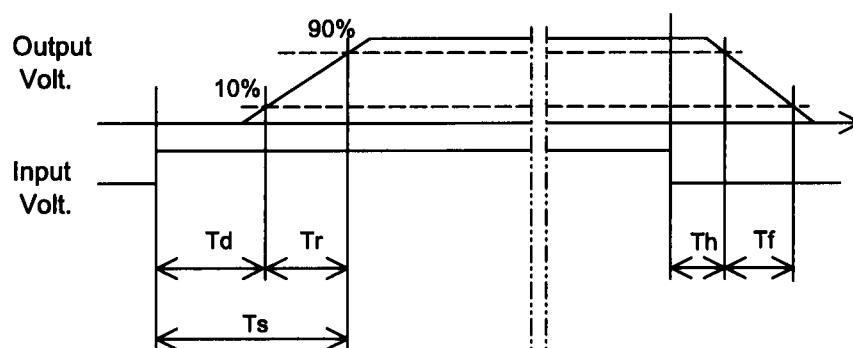
Input Volt. 48 V



2. Values

[mS]

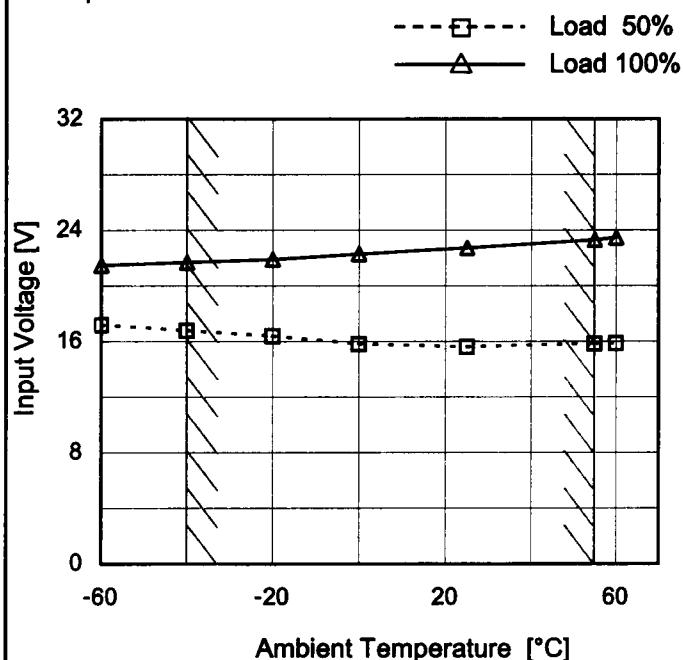
Load	Time	Td	Tr	Ts	Th	Tf
50 %		0.1	0.8	0.9	0.1	0.6
100 %		0.1	0.9	1.0	0.1	0.3



COSEL

Model	SUS34805
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V0.6A

1.Graph



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

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	17.2	21.5
-40	16.8	21.7
-20	16.4	22.0
0	15.9	22.3
25	15.7	22.8
55	15.9	23.4
60	15.9	23.5
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model	SUS34805	Temperature Testing Circuitry	25°C Figure A																																																							
Item	Overcurrent Protection																																																									
Object	+5V0.6A																																																									
1.Graph	<p style="text-align: center;"> Input Volt. 36V Input Volt. 48V Input Volt. 76V </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>	2.Values																																																								
			<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load 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>5.00</td><td>0.60</td><td>0.60</td><td>0.60</td></tr> <tr><td>4.75</td><td>0.92</td><td>0.98</td><td>0.96</td></tr> <tr><td>4.50</td><td>0.95</td><td>1.00</td><td>0.98</td></tr> <tr><td>4.00</td><td>1.02</td><td>1.06</td><td>1.02</td></tr> <tr><td>3.50</td><td>1.08</td><td>1.12</td><td>1.05</td></tr> <tr><td>3.00</td><td>1.16</td><td>1.18</td><td>1.09</td></tr> <tr><td>2.50</td><td>1.24</td><td>1.23</td><td>1.11</td></tr> <tr><td>2.00</td><td>1.32</td><td>1.28</td><td>1.13</td></tr> <tr><td>1.50</td><td>1.39</td><td>1.32</td><td>1.13</td></tr> <tr><td>1.00</td><td>1.45</td><td>1.31</td><td>1.09</td></tr> <tr><td>0.50</td><td>1.44</td><td>1.22</td><td>1.00</td></tr> <tr><td>0.00</td><td>1.89</td><td>1.36</td><td>1.05</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	5.00	0.60	0.60	0.60	4.75	0.92	0.98	0.96	4.50	0.95	1.00	0.98	4.00	1.02	1.06	1.02	3.50	1.08	1.12	1.05	3.00	1.16	1.18	1.09	2.50	1.24	1.23	1.11	2.00	1.32	1.28	1.13	1.50	1.39	1.32	1.13	1.00	1.45	1.31	1.09	0.50	1.44	1.22	1.00	0.00	1.89	1.36	1.05
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																							
5.00	0.60	0.60	0.60																																																							
4.75	0.92	0.98	0.96																																																							
4.50	0.95	1.00	0.98																																																							
4.00	1.02	1.06	1.02																																																							
3.50	1.08	1.12	1.05																																																							
3.00	1.16	1.18	1.09																																																							
2.50	1.24	1.23	1.11																																																							
2.00	1.32	1.28	1.13																																																							
1.50	1.39	1.32	1.13																																																							
1.00	1.45	1.31	1.09																																																							
0.50	1.44	1.22	1.00																																																							
0.00	1.89	1.36	1.05																																																							

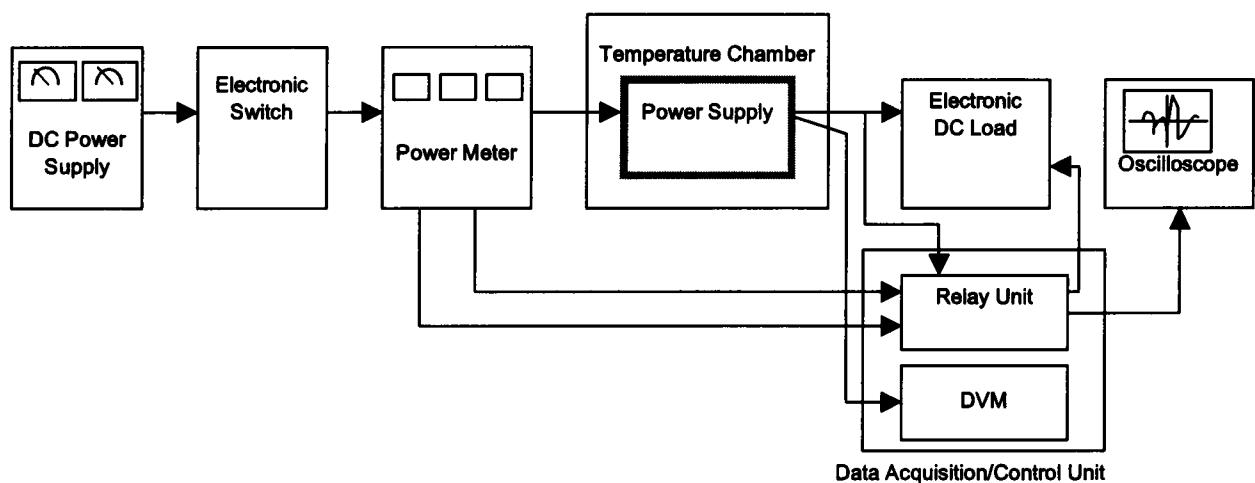


Figure A

