

TEST DATA OF SFLS104805

Regulated DC Power Supply
Jun 29, 2007

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Toshiyuki Tsuru Design Engineer

COSEL CO.,LTD.

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(Final Page 19)

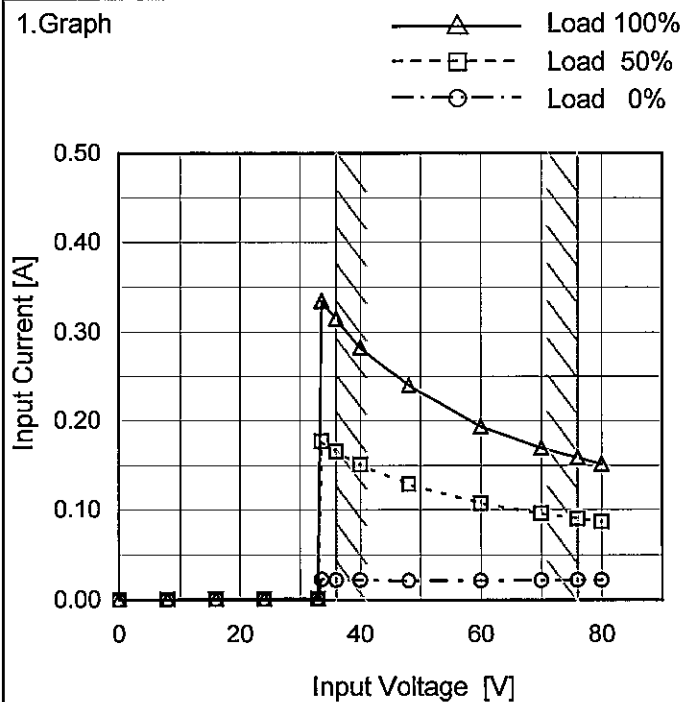
Model SFLS104805

Item Input Current (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



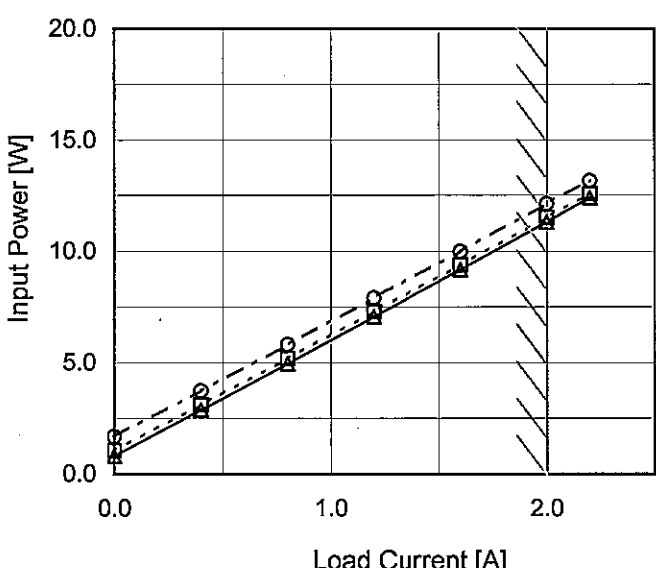
Note: Slanted line shows the range of the rated input voltage.

2. Values

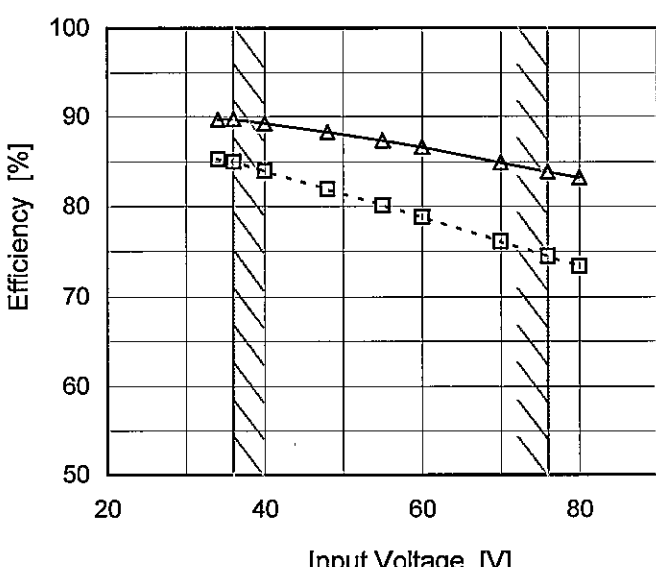
Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0	0.000	0.000	0.000
8	0.001	0.001	0.001
16	0.001	0.001	0.001
24	0.001	0.001	0.001
33	0.002	0.002	0.002
34	0.023	0.177	0.334
36	0.022	0.166	0.315
40	0.022	0.151	0.282
48	0.022	0.129	0.240
60	0.022	0.107	0.194
70	0.022	0.095	0.170
76	0.022	0.090	0.159
80	0.022	0.087	0.152
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Model	SFLS104805																																																					
Item	Input Current (by Load Current)	Temperature	25°C																																																			
Object		Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>---□---</div><div>Input Volt.</div><div>48V</div></div><div><div>---○---</div><div>Input Volt.</div><div>76V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><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><tr><td>0.0</td><td>0.022</td><td>0.022</td><td>0.022</td></tr><tr><td>0.4</td><td>0.080</td><td>0.065</td><td>0.049</td></tr><tr><td>0.8</td><td>0.138</td><td>0.108</td><td>0.077</td></tr><tr><td>1.2</td><td>0.196</td><td>0.152</td><td>0.104</td></tr><tr><td>1.6</td><td>0.256</td><td>0.196</td><td>0.132</td></tr><tr><td>2.0</td><td>0.315</td><td>0.240</td><td>0.159</td></tr><tr><td>2.2</td><td>0.344</td><td>0.262</td><td>0.173</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>		Load Current [A]	Input Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	0.022	0.022	0.022	0.4	0.080	0.065	0.049	0.8	0.138	0.108	0.077	1.2	0.196	0.152	0.104	1.6	0.256	0.196	0.132	2.0	0.315	0.240	0.159	2.2	0.344	0.262	0.173	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model		SFLS104805		Temperature Testing Circuitry	25°C Figure A
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.					
2.Values					
Load Current [A]		Input Power [W]			
		Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	
0.0		0.80	1.04	1.68	
0.4		2.87	3.11	3.74	
0.8		4.96	5.19	5.82	
1.2		7.06	7.28	7.90	
1.6		9.18	9.38	10.00	
2.0		11.31	11.49	12.11	
2.2		12.38	12.56	13.16	
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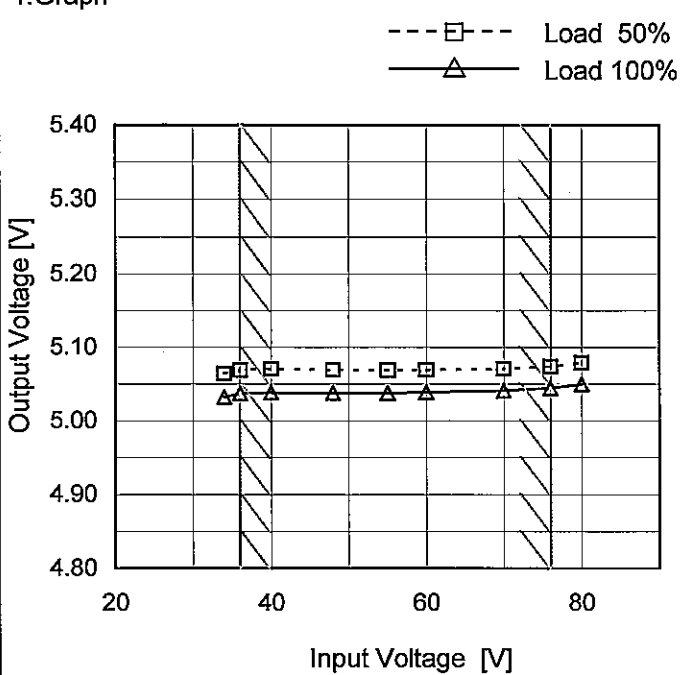
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Model		SFLS104805																																	
Item		Efficiency (by Input Voltage)																																	
Object																																			
1.Graph		2.Values																																	
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div>  <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>34</td><td>85.3</td><td>89.7</td></tr><tr><td>36</td><td>85.0</td><td>89.7</td></tr><tr><td>40</td><td>84.0</td><td>89.3</td></tr><tr><td>48</td><td>81.9</td><td>88.3</td></tr><tr><td>55</td><td>80.1</td><td>87.4</td></tr><tr><td>60</td><td>78.8</td><td>86.6</td></tr><tr><td>70</td><td>76.1</td><td>84.9</td></tr><tr><td>76</td><td>74.5</td><td>83.9</td></tr><tr><td>80</td><td>73.4</td><td>83.3</td></tr></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	34	85.3	89.7	36	85.0	89.7	40	84.0	89.3	48	81.9	88.3	55	80.1	87.4	60	78.8	86.6	70	76.1	84.9	76	74.5	83.9	80	73.4	83.3
Input Voltage [V]	Efficiency [%]																																		
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Item	Efficiency (by Load Current)	Temperature	25°C																																																			
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1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>---□---</div><div>Input Volt.</div><div>48V</div></div><div><div>---○---</div><div>Input Volt.</div><div>76V</div></div></div> <p>Efficiency [%]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.4</td><td>71.3</td><td>65.8</td><td>54.7</td></tr><tr><td>0.8</td><td>82.4</td><td>78.7</td><td>70.3</td></tr><tr><td>1.2</td><td>86.7</td><td>84.0</td><td>77.5</td></tr><tr><td>1.6</td><td>88.7</td><td>86.7</td><td>81.4</td></tr><tr><td>2.0</td><td>89.7</td><td>88.3</td><td>83.9</td></tr><tr><td>2.2</td><td>90.0</td><td>88.8</td><td>84.8</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>		Load Current [A]	Efficiency [%]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	-	-	-	0.4	71.3	65.8	54.7	0.8	82.4	78.7	70.3	1.2	86.7	84.0	77.5	1.6	88.7	86.7	81.4	2.0	89.7	88.3	83.9	2.2	90.0	88.8	84.8	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model	SFLS104805																																		
Item	Line Regulation	Temperature	25°C																																
Object	+5V2A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div><p>Output Voltage [V]</p><p>Input Voltage [V]</p><p>Note: Slanted line shows the range of the rated input voltage.</p></div>		<table><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><tr><td>34</td><td>5.064</td><td>5.032</td></tr><tr><td>36</td><td>5.069</td><td>5.037</td></tr><tr><td>40</td><td>5.071</td><td>5.038</td></tr><tr><td>48</td><td>5.069</td><td>5.038</td></tr><tr><td>55</td><td>5.069</td><td>5.037</td></tr><tr><td>60</td><td>5.069</td><td>5.038</td></tr><tr><td>70</td><td>5.071</td><td>5.041</td></tr><tr><td>76</td><td>5.074</td><td>5.044</td></tr><tr><td>80</td><td>5.079</td><td>5.049</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	34	5.064	5.032	36	5.069	5.037	40	5.071	5.038	48	5.069	5.038	55	5.069	5.037	60	5.069	5.038	70	5.071	5.041	76	5.074	5.044	80	5.079	5.049
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Model SFLS104805

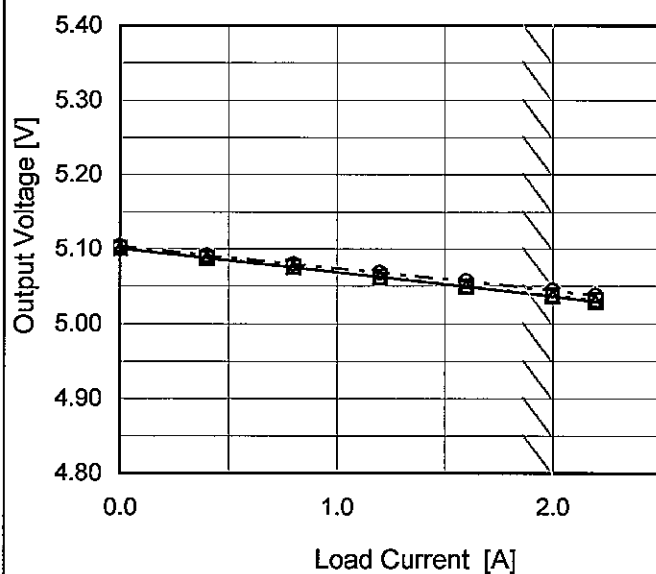
Item Load Regulation

Object +5V2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

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



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

2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.0	5.101	5.101	5.104
0.4	5.087	5.088	5.091
0.8	5.075	5.075	5.079
1.2	5.062	5.062	5.068
1.6	5.050	5.050	5.056
2.0	5.037	5.038	5.044
2.2	5.030	5.032	5.038
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

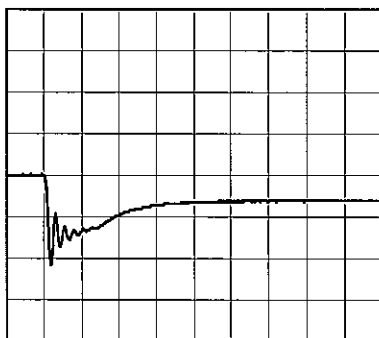
Model	SFLS104805	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+5V2A		

Input Volt. 48 V
Cycle 1000 mS

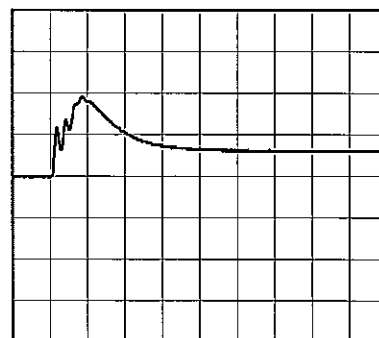
Load Current 2.0A / 200 μ sec

Min. Load (0A) \longleftrightarrow
Load 100% (2A)

100mV/div



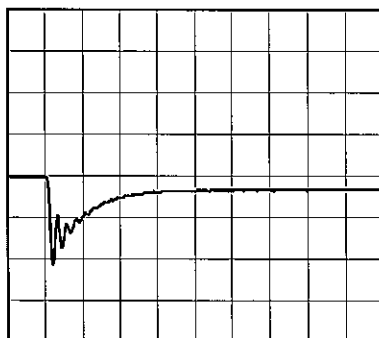
200 μ s/div



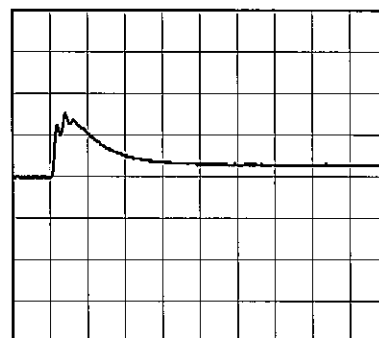
200 μ s/div

Min. Load (0A) \longleftrightarrow
Load 50% (1A)

100mV/div



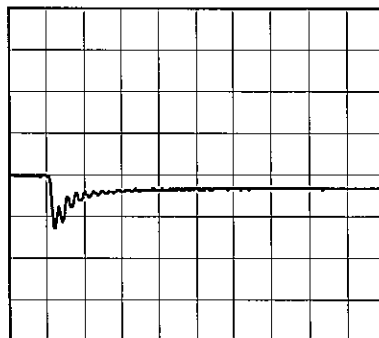
200 μ s/div



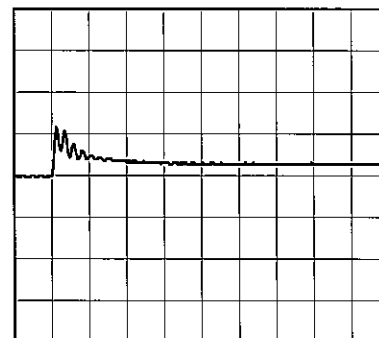
200 μ s/div

Load 50% (1A) \longleftrightarrow
Load 100% (2A)

100mV/div



200 μ s/div



200 μ s/div

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Model	SFLS104805	Temperature	25°C																																																																										
Item	Ripple Voltage (by Load Current)	Testing Circuitry	Figure C																																																																										
Object	+5V2A																																																																												
1.Graph		2.Values																																																																											
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BC-10109

Model		SFLS104805	Testing Circuitry Figure A																																																				
Item		Ambient Temperature Drift																																																					
Object		+5V2A																																																					
1.Graph		<div><div>—△—</div>Input Volt. 36V</div> <div><div>---□---</div>Input Volt. 48V</div> <div><div>-·-○-·-</div>Input Volt. 76V</div> <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>	2.Values																																																				
			<table><tr><th rowspan="2">Ambient Temperature [°C]</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><tr><td>-50</td><td>5.049</td><td>5.046</td><td>5.053</td></tr><tr><td>-40</td><td>5.051</td><td>5.047</td><td>5.054</td></tr><tr><td>-20</td><td>5.051</td><td>5.048</td><td>5.055</td></tr><tr><td>0</td><td>5.048</td><td>5.046</td><td>5.052</td></tr><tr><td>25</td><td>5.037</td><td>5.038</td><td>5.044</td></tr><tr><td>55</td><td>5.022</td><td>5.026</td><td>5.034</td></tr><tr><td>85</td><td>4.998</td><td>5.006</td><td>5.018</td></tr><tr><td>90</td><td>4.993</td><td>5.002</td><td>5.014</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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	-50	5.049	5.046	5.053	-40	5.051	5.047	5.054	-20	5.051	5.048	5.055	0	5.048	5.046	5.052	25	5.037	5.038	5.044	55	5.022	5.026	5.034	85	4.998	5.006	5.018	90	4.993	5.002	5.014	--	-	-	-	--	-	-	-	--	-	-	-
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Model		SFLS104805	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+5V2A	

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 - 2A

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

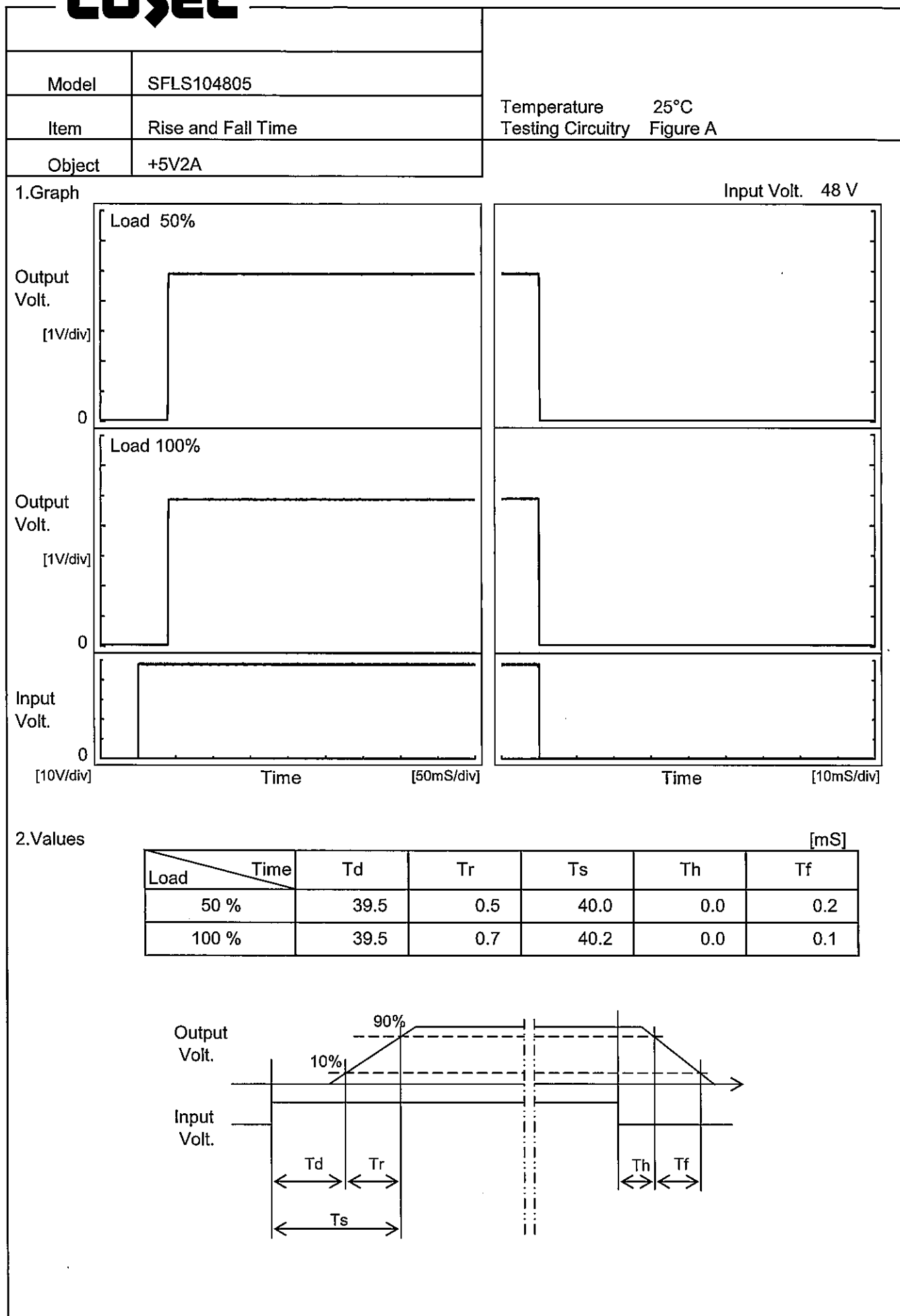
* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	0	36	0	5.104	±53	±1.1
Minimum Voltage	85	36	2	4.998		

Model	SFLS104805																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+5V2A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><div><div>5.40</div><div>5.30</div><div>5.20</div><div>5.10</div><div>5.00</div><div>4.90</div><div>4.80</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Output Voltage [V]</div><div>Time [H]</div></div><div><div>Input Volt.</div><div>Load</div></div><div><div>48V</div><div>100%</div></div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.041</td></tr><tr><td>0.5</td><td>5.038</td></tr><tr><td>1.0</td><td>5.038</td></tr><tr><td>2.0</td><td>5.038</td></tr><tr><td>3.0</td><td>5.038</td></tr><tr><td>4.0</td><td>5.038</td></tr><tr><td>5.0</td><td>5.038</td></tr><tr><td>6.0</td><td>5.038</td></tr><tr><td>7.0</td><td>5.038</td></tr><tr><td>8.0</td><td>5.038</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.041	0.5	5.038	1.0	5.038	2.0	5.038	3.0	5.038	4.0	5.038	5.0	5.038	6.0	5.038	7.0	5.038	8.0	5.038
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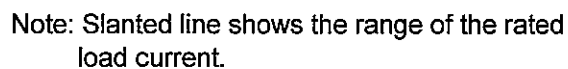
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		Testing Circuitry Figure A																																						
Model	SFLS104805																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																							
Object	+5V2A																																							
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<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>-50</td><td>32.1</td><td>32.0</td></tr><tr><td>-40</td><td>32.0</td><td>32.0</td></tr><tr><td>-20</td><td>31.9</td><td>32.0</td></tr><tr><td>0</td><td>31.9</td><td>31.8</td></tr><tr><td>25</td><td>31.6</td><td>31.8</td></tr><tr><td>55</td><td>31.6</td><td>31.6</td></tr><tr><td>85</td><td>31.4</td><td>31.4</td></tr><tr><td>90</td><td>31.4</td><td>31.4</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>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-50	32.1	32.0	-40	32.0	32.0	-20	31.9	32.0	0	31.9	31.8	25	31.6	31.8	55	31.6	31.6	85	31.4	31.4	90	31.4	31.4	--	-	-	--	-	-	--	-	-	
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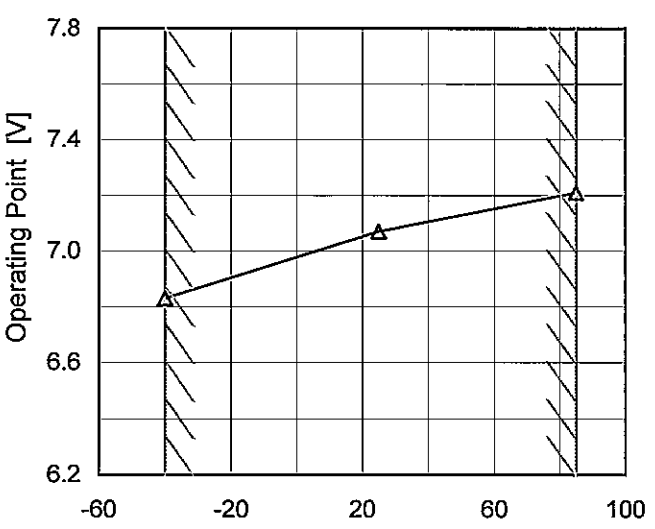
Temperature	25°C
Testing Circuitry	Figure A

_____	Input Volt.	36V
_____	Input Volt.	48V
_____	Input Volt.	76V



2.Values

[illegible]

Model		SFLS104805																																																								
Item		Overvoltage Protection																																																								
Object		+5V2A																																																								
1.Graph		2.Values																																																								
<div><div>—△— Input Volt. 48V</div><div><p>Operating Point [V]</p><p>Ambient Temperature [°C]</p><p>Load 0%</p></div></div> <div>Note: Slanted line shows the range of the rated ambient temperature.</div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Operating Point [V]</th></tr><tr><th>Input Volt. 48[V]</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><td>-40</td><td>6.83</td><td>-</td><td>-</td></tr><tr><td>25</td><td>7.07</td><td>-</td><td>-</td></tr><tr><td>85</td><td>7.21</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><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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]			Input Volt. 48[V]	Input Volt.	Input Volt.	-40	6.83	-	-	25	7.07	-	-	85	7.21	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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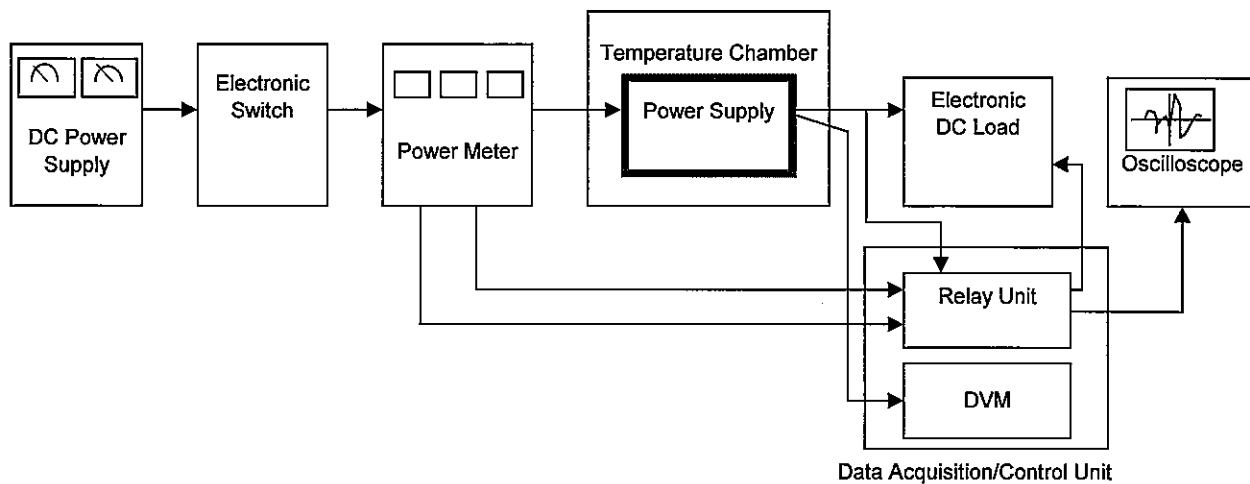


Figure A

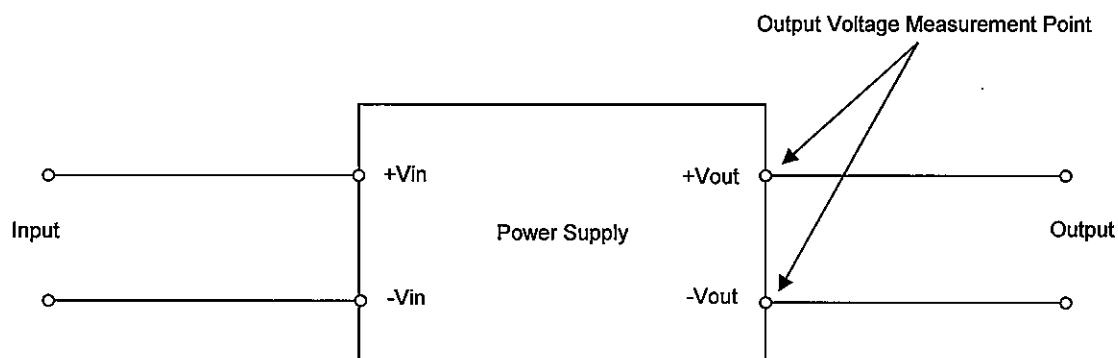


Figure B (General Electric Characteristic)

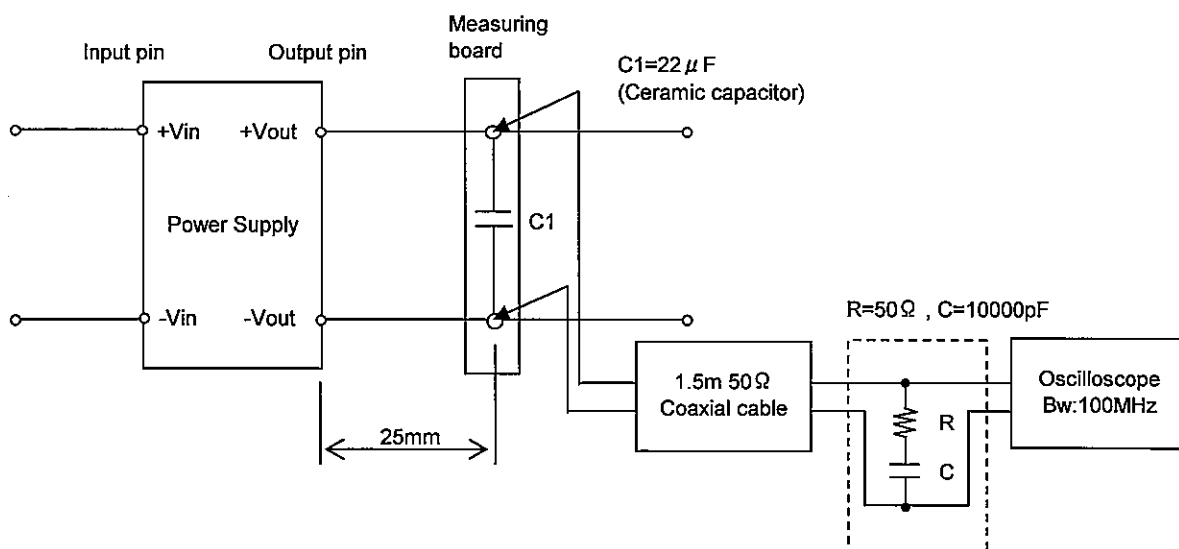


Figure C (Ripple and Ripple noise Characteristic)