

TEST DATA OF SFLS154805

Regulated DC Power Supply
May 17, 2007

Approved by : Isao Yasuda Design Manager

Prepared by : Toshiyuki Tsuru Design Engineer

COSEL CO.,LTD.

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

COSEL

Model SFLS154805

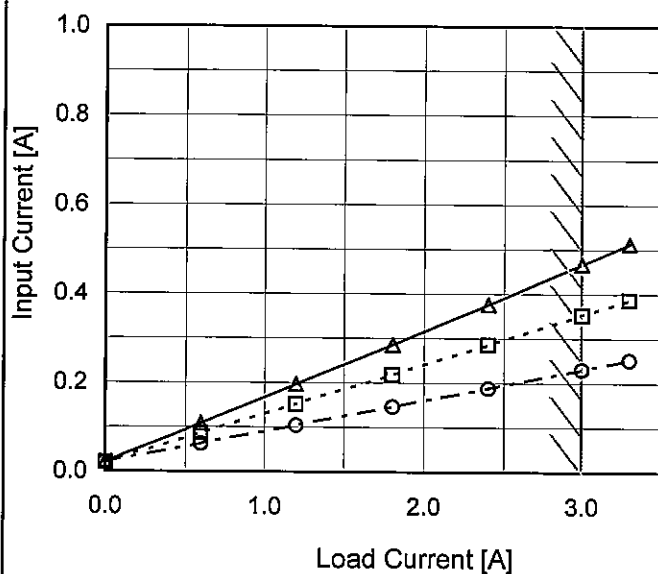
Item Input Current (by Load Current)

Object

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]	Input Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.0	0.022	0.021	0.022
0.6	0.109	0.086	0.063
1.2	0.197	0.152	0.104
1.8	0.286	0.219	0.146
2.4	0.377	0.286	0.188
3.0	0.467	0.353	0.231
3.3	0.513	0.387	0.252
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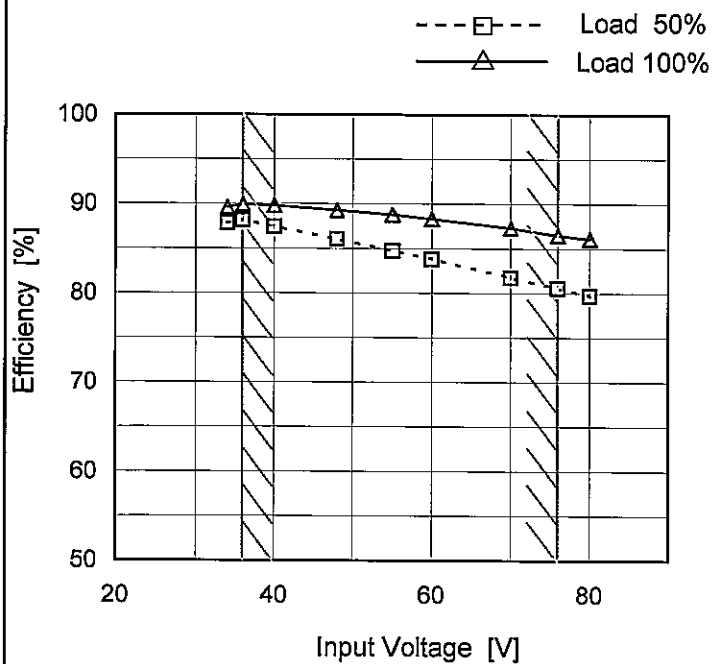
Model SFLS154805

Item Efficiency (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph

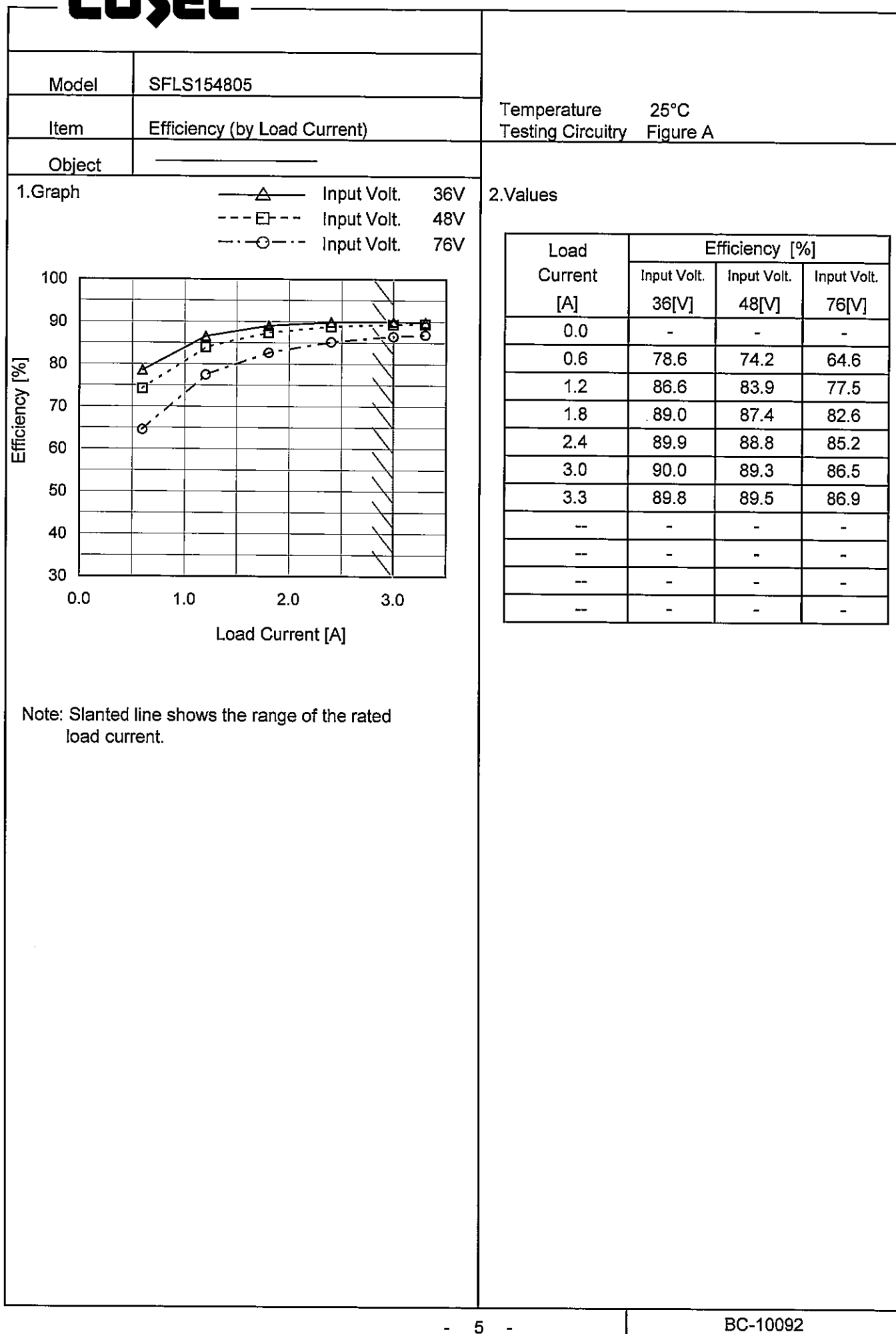


Note: Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
34	87.9	89.6
36	88.1	90.0
40	87.4	89.8
48	86.0	89.3
55	84.7	88.8
60	83.8	88.3
70	81.8	87.3
76	80.6	86.5
80	79.7	86.1

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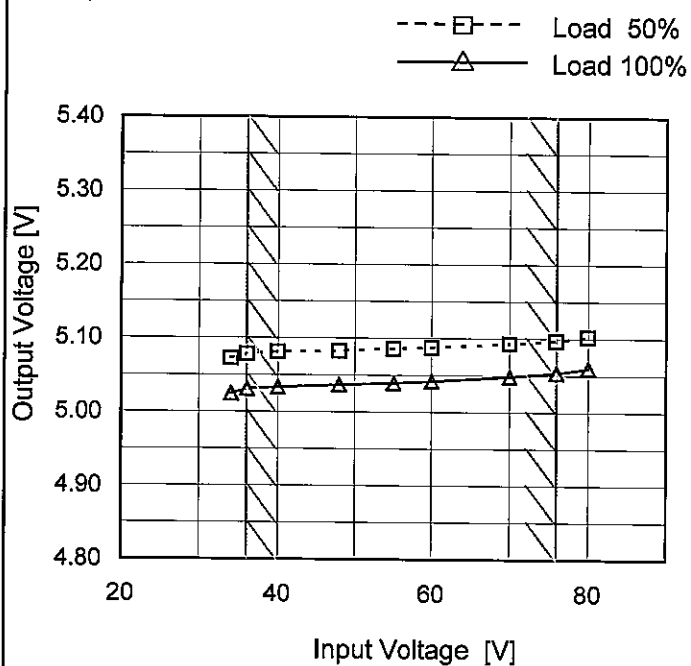
Model SFLS154805

Item Line Regulation

Object +5V3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
34	5.072	5.025
36	5.078	5.031
40	5.081	5.033
48	5.083	5.037
55	5.086	5.039
60	5.088	5.042
70	5.093	5.048
76	5.097	5.054
80	5.102	5.060

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Model		SFLS154805		Temperature		25°C																																																	
Item		Load Regulation		Testing Circuitry		Figure A																																																	
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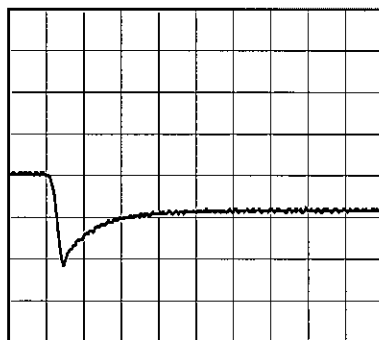
Model	SFLS154805	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+5V3A		

Input Volt. 48 V
Cycle 1000 mS

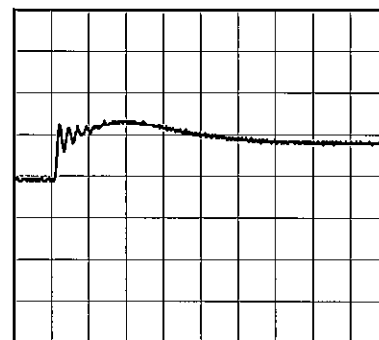
Load Current 3A / 200 μ sec

Min. Load (0A) \longleftrightarrow
Load 100% (3A)

100mV/div



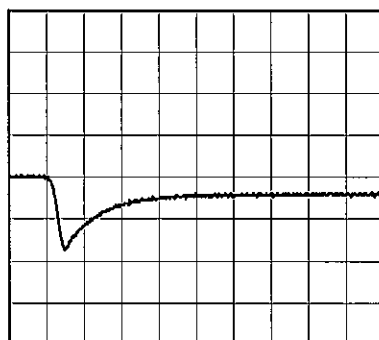
200 μ s/div



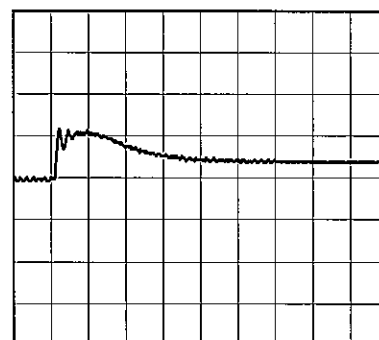
200 μ s/div

Min. Load (0A) \longleftrightarrow
Load 50% (1.5A)

100mV/div



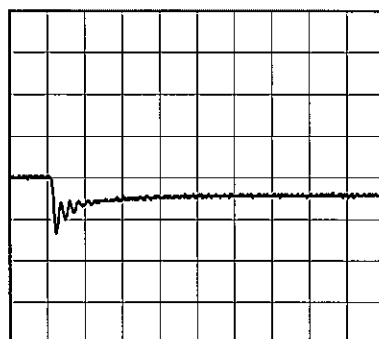
200 μ s/div



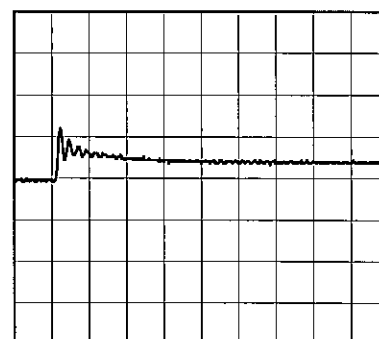
200 μ s/div

Load 50% (1.5A) \longleftrightarrow
Load 100% (3A)

100mV/div



200 μ s/div



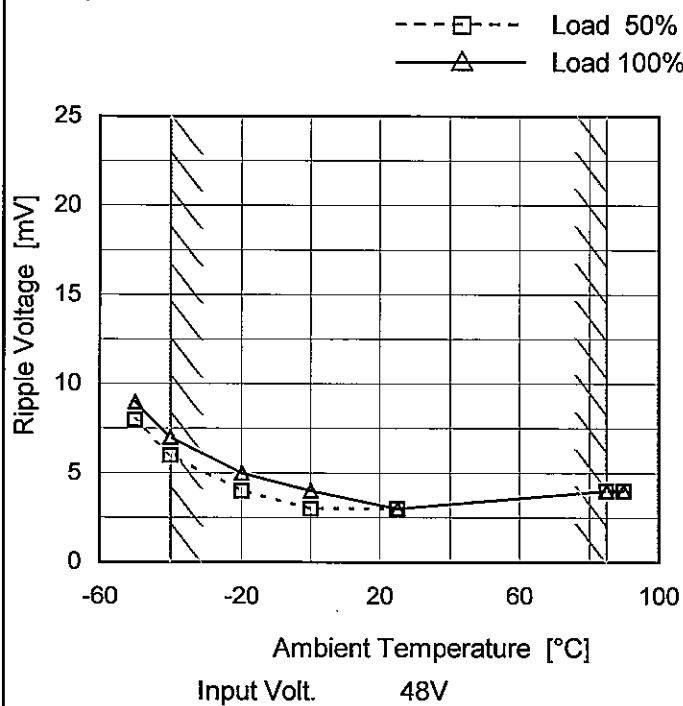
200 μ s/div

Model		SFLS154805	Temperature 25°C Testing Circuitry Figure C
Item		Ripple Voltage (by Load Current)	
Object		+5V3A	
1.Graph			2.Values
<div><div><div><div></div><div>△</div><div>Input Volt. 36V</div></div><div><div></div><div>○</div><div>Input Volt. 76V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div>			
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.			
<div><div><div>Ripple [mVp-p]</div><div></div></div><div>Fig.Complex Ripple Wave Form</div></div>			

Model	SFLS154805		
Item	Ripple-Noise	Temperature	25°C
Object	+5V3A	Testing Circuitry	Figure C
1.Graph		2.Values	
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Model	SFLS154805
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V3A

1. Graph



Measured by 100 MHz Oscilloscope.

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

Testing Circuitry Figure C

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-50	8	9
-40	6	7
-20	4	5
0	3	4
25	3	3
85	4	4
90	4	4
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model SFLS154805

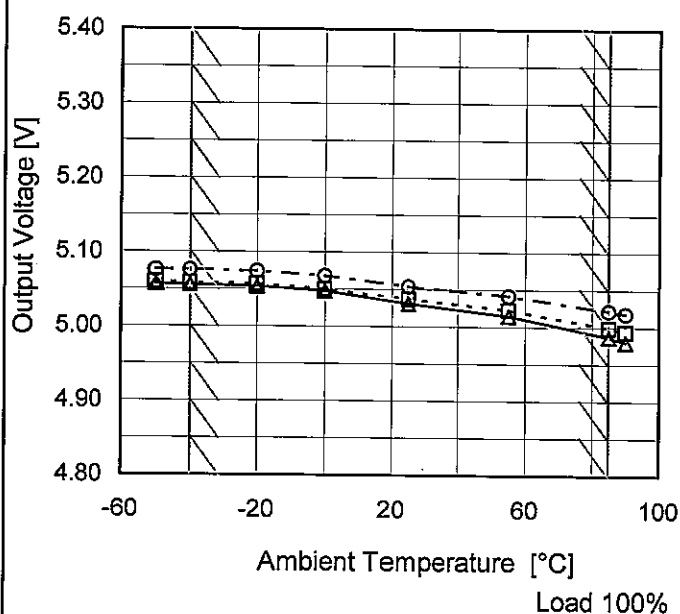
Item Ambient Temperature Drift

Object +5V3A

Testing Circuitry Figure A

1. Graph

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



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

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
-50	5.057	5.060	5.076
-40	5.056	5.058	5.076
-20	5.054	5.057	5.074
0	5.048	5.050	5.068
25	5.031	5.037	5.054
55	5.015	5.023	5.042
85	4.987	4.999	5.022
90	4.980	4.994	5.018
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

		Testing Circuitry Figure A
Model	SFLS154805	
Item	Output Voltage Accuracy	
Object	+5V3A	

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 - 3A

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

* 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	25	76	0	5.139	±76	±1.5
Minimum Voltage	85	36	3	4.987		

COSEL

Model

SFLS154805

Item

Time Lapse Drift

Object

+5V3A

Temperature

25°C

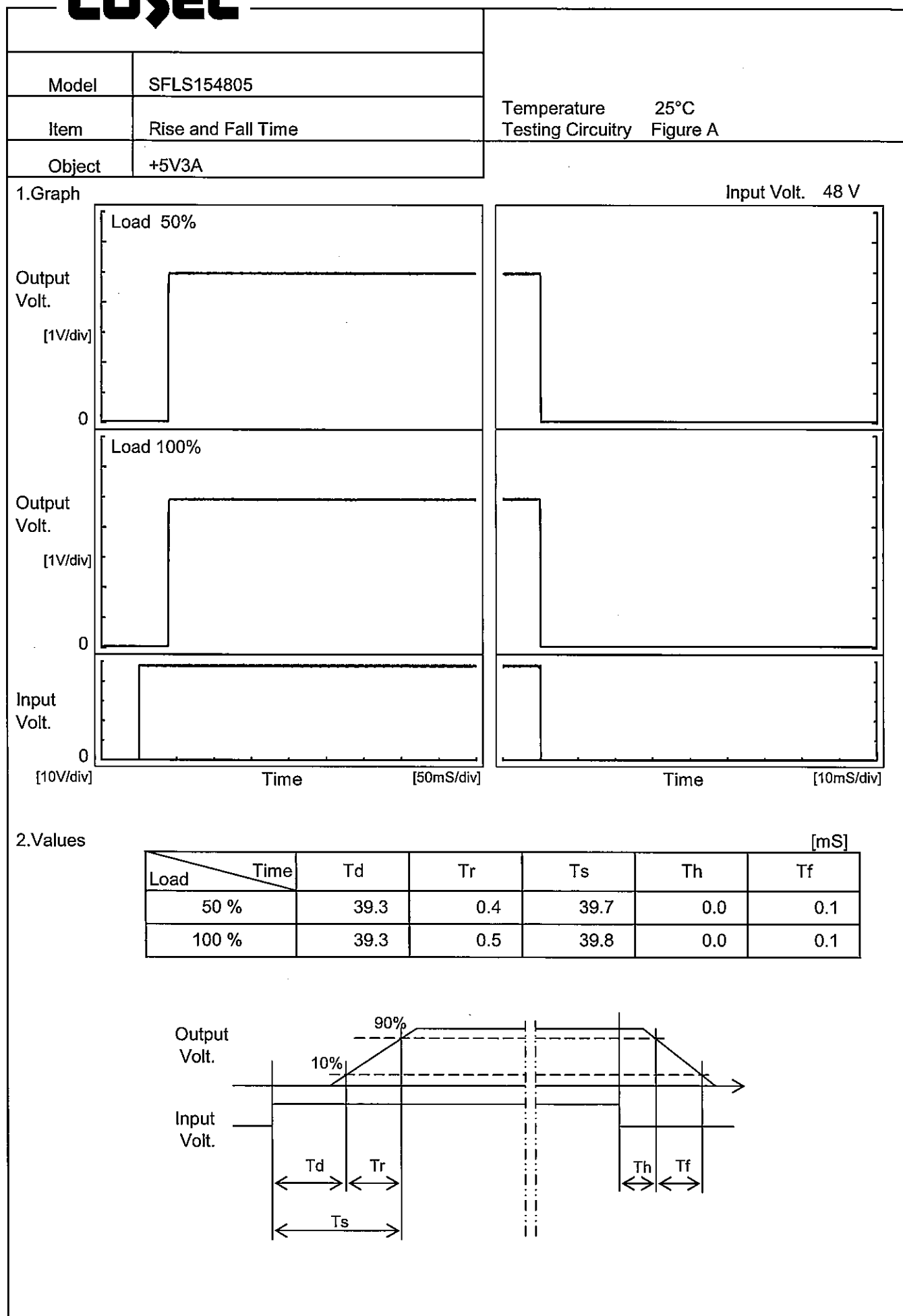
Testing Circuitry

Figure A

1.Graph

Output Voltage [V]

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COSEL

COSEL

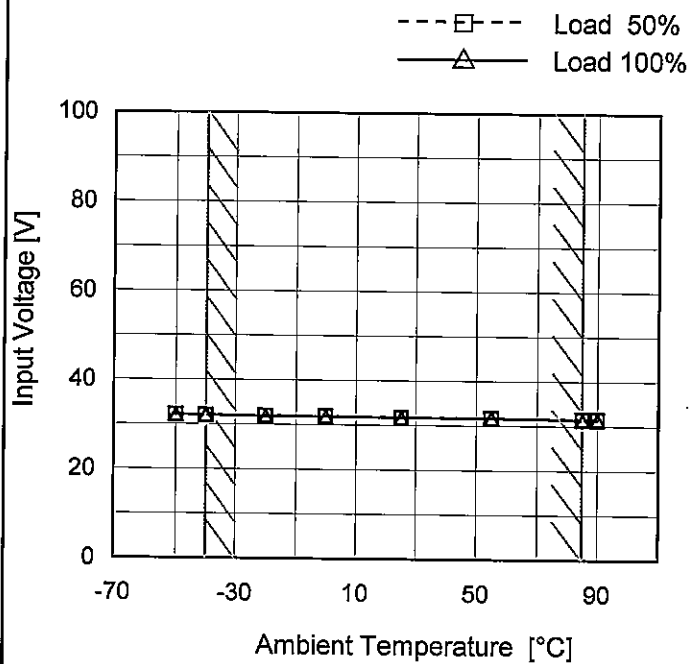
Model SFLS154805

Item Minimum Input Voltage
for Regulated Output Voltage

Object +5V3A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-50	32.2	32.2
-40	32.1	32.2
-20	32.0	32.0
0	32.0	32.0
25	31.8	31.8
55	31.8	31.8
85	31.6	31.5
90	31.6	31.5
--	-	-
--	-	-
--	-	-

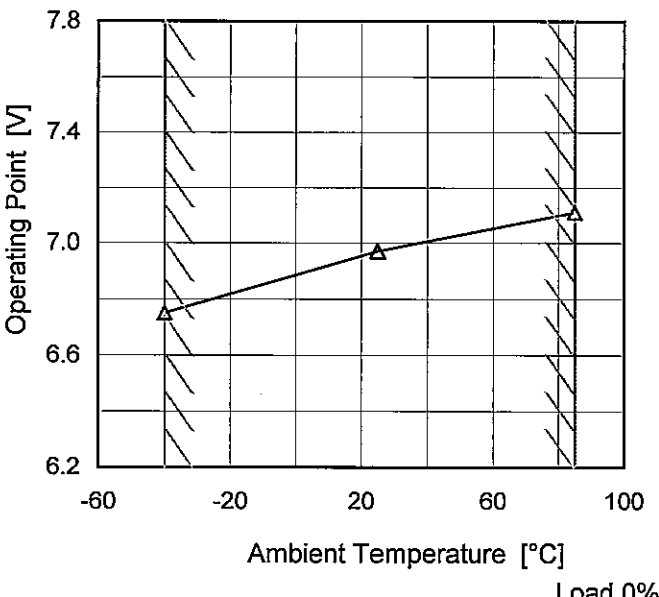
Temperature 25°C
Testing Circuitry Figure A

[illegible]

When the output voltage fell to less than 4.65V ,the unit shuts off the output by operating low voltage protection .

Model		SFLS154805	
Item		Overvoltage Protection	
Object		+5V3A	
1.Graph		2.Values	

—△— Input Volt. 48V



Operating Point [V]

Ambient Temperature [°C]

Load 0%

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

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 48[V]	Input Volt.	Input Volt.
-40	6.75	-	-
25	6.97	-	-
85	7.11	-	-
--	-	-	-
--	-	-	-
--	-	-	-
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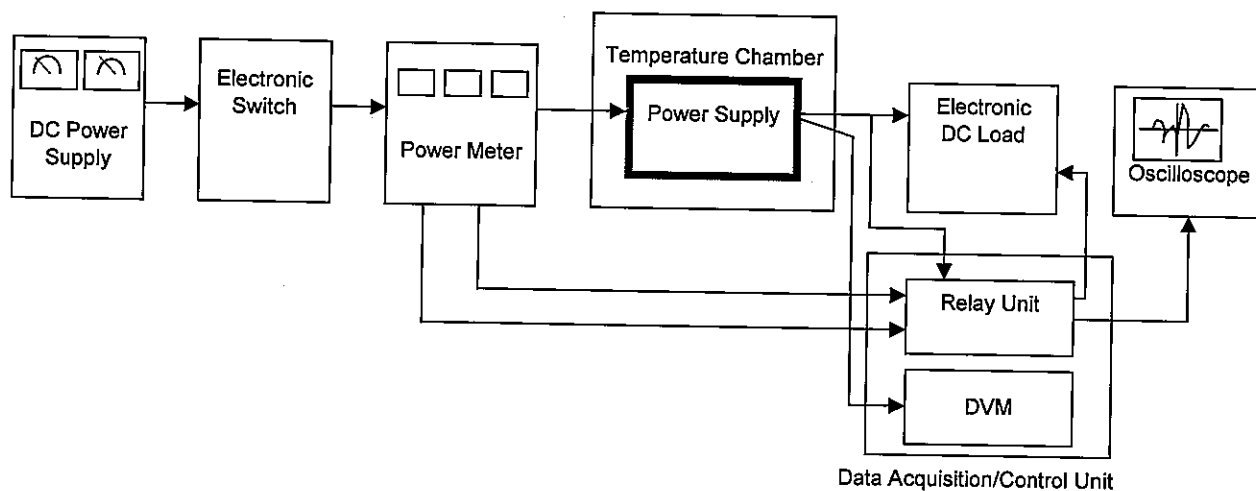


Figure A

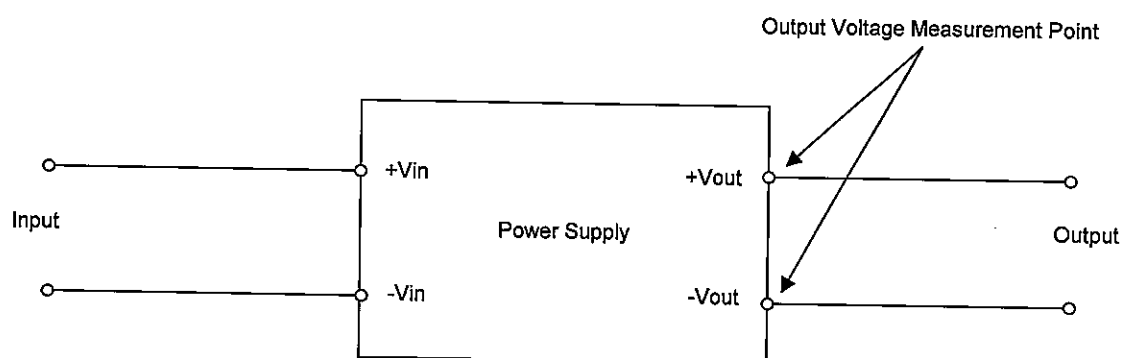


Figure B (General Electric Characteristic)

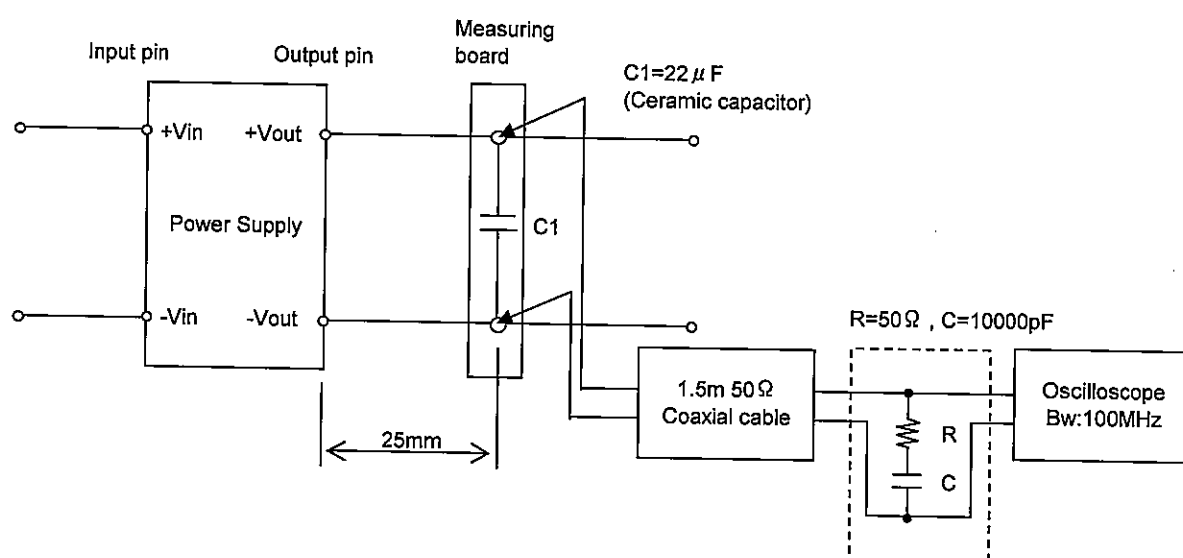


Figure C (Ripple and Ripple noise Characteristic)