



# TEST DATA OF SFS154805/SFCS154805

Regulated DC Power Supply  
May.31. 2007

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Design Engineer

COSEL CO.,LTD.



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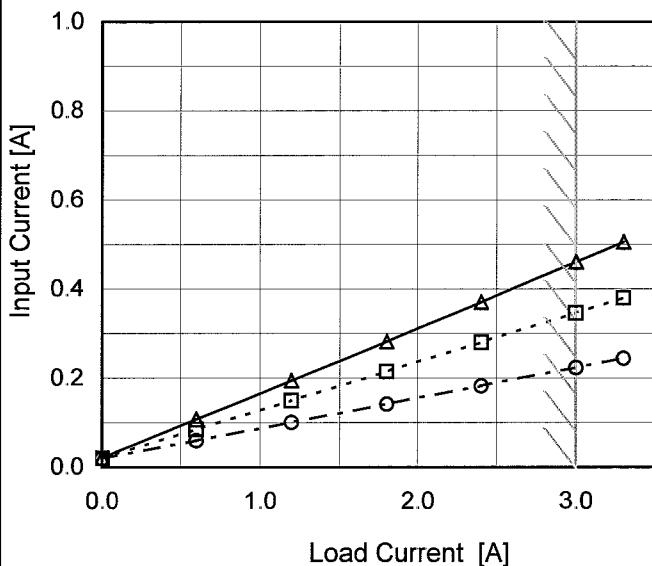
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Model	SFS154805/SFCS154805
Item	Input Current (by Load Current)
Object	

## 1. Graph

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



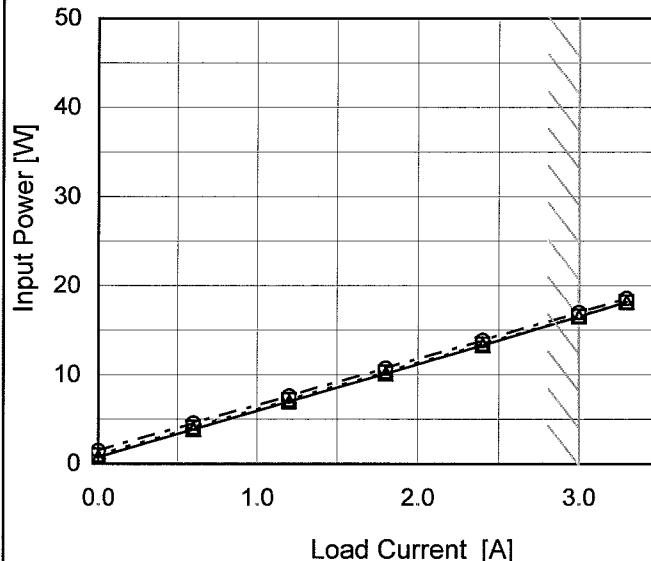
Note: Slanted line shows the range of the rated load current.

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]
0.0	0.021	0.020	0.019
0.6	0.107	0.085	0.060
1.2	0.194	0.150	0.100
1.8	0.282	0.215	0.141
2.4	0.371	0.280	0.182
3.0	0.461	0.346	0.224
3.3	0.506	0.380	0.244
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<p>—△— Input Volt. 36V        - - -□- - Input Volt. 48V        - - -○- - Input Volt. 76V</p>  <p>The graph plots Input Power [W] on the y-axis (0 to 50) against Load Current [A] on the x-axis (0.0 to 3.0). Three data series are shown for input voltages of 36V, 48V, and 76V. Each series consists of data points connected by straight lines. A slanted line is drawn across the graph, starting from approximately (0.5, 2) and ending at (3.0, 18), representing the rated load current range.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</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>0.0</td> <td>0.77</td> <td>0.98</td> <td>1.47</td> </tr> <tr> <td>0.6</td> <td>3.86</td> <td>4.07</td> <td>4.54</td> </tr> <tr> <td>1.2</td> <td>6.99</td> <td>7.17</td> <td>7.63</td> </tr> <tr> <td>1.8</td> <td>10.14</td> <td>10.30</td> <td>10.75</td> </tr> <tr> <td>2.4</td> <td>13.32</td> <td>13.44</td> <td>13.86</td> </tr> <tr> <td>3.0</td> <td>16.55</td> <td>16.59</td> <td>16.99</td> </tr> <tr> <td>3.3</td> <td>18.17</td> <td>18.19</td> <td>18.57</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Load Current [A]	Input Power [W]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	0.77	0.98	1.47	0.6	3.86	4.07	4.54	1.2	6.99	7.17	7.63	1.8	10.14	10.30	10.75	2.4	13.32	13.44	13.86	3.0	16.55	16.59	16.99	3.3	18.17	18.19	18.57	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.

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Model	SFS154805/SFCS154805	Temperature Testing Circuitry Figure A																													
Item	Efficiency (by Input Voltage)																														
Object	_____																														
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<p>The graph plots Efficiency [%] on the y-axis (72 to 100) against Input Voltage [V] on the x-axis (20 to 80). Two data series are shown: Load 50% (dashed line with open squares) and Load 100% (solid line with open triangles). Both series show a general downward trend as input voltage increases. A slanted line on the graph indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>34</td><td>88.5</td><td>89.1</td></tr> <tr><td>36</td><td>87.5</td><td>89.1</td></tr> <tr><td>40</td><td>85.5</td><td>88.4</td></tr> <tr><td>48</td><td>83.5</td><td>87.0</td></tr> <tr><td>55</td><td>82.5</td><td>86.0</td></tr> <tr><td>60</td><td>81.5</td><td>85.2</td></tr> <tr><td>70</td><td>80.5</td><td>83.5</td></tr> <tr><td>76</td><td>80.0</td><td>82.4</td></tr> <tr><td>78</td><td>79.5</td><td>82.0</td></tr> </tbody> </table>		Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	34	88.5	89.1	36	87.5	89.1	40	85.5	88.4	48	83.5	87.0	55	82.5	86.0	60	81.5	85.2	70	80.5	83.5	76	80.0	82.4	78	79.5	82.0
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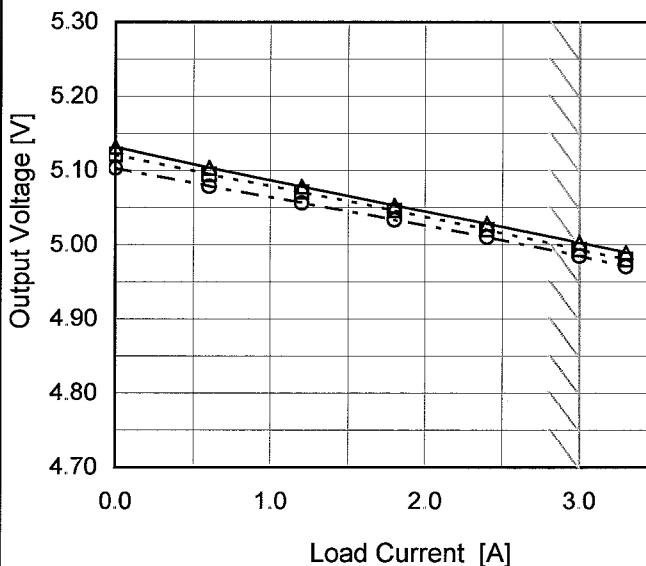
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Item	Line Regulation																																	
Object	+5V3A																																	
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Model	SFS154805/SFCS154805
Item	Load Regulation
Object	+5V3A

## 1.Graph

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



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

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]
0.0	5.132	5.121	5.104
0.6	5.104	5.095	5.079
1.2	5.078	5.071	5.057
1.8	5.053	5.046	5.034
2.4	5.028	5.020	5.010
3.0	5.003	4.994	4.985
3.3	4.990	4.980	4.971
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

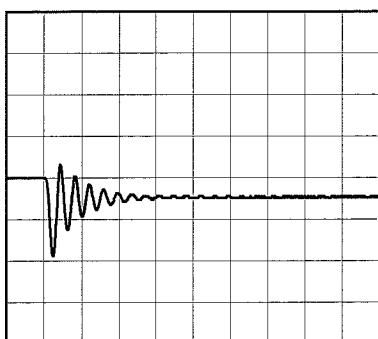
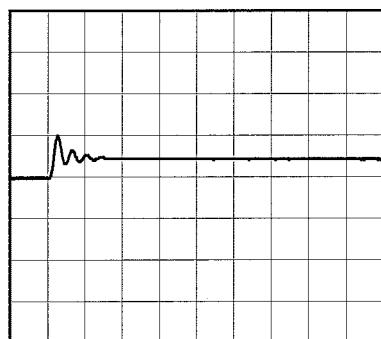
Model	SFS154805/SFCS154805	Temperature Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+5V3A	

Input Volt. 48 V  
 Cycle 1000 mS

Load Current   3A / 200  $\mu$  sec  

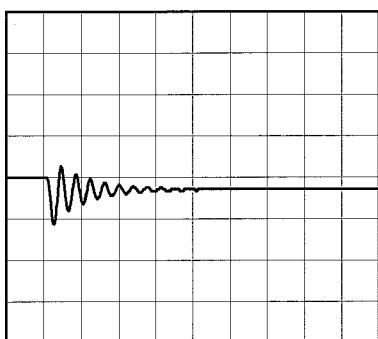
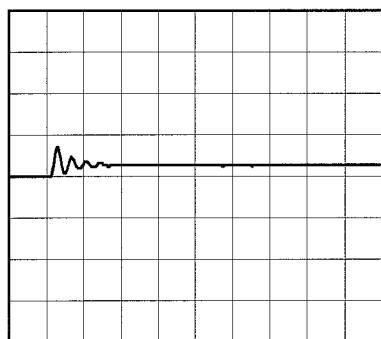
Min. Load (0A)  $\longleftrightarrow$   
 Load 100% (3A)

100mV/div

200  $\mu$ s/div200  $\mu$ s/div

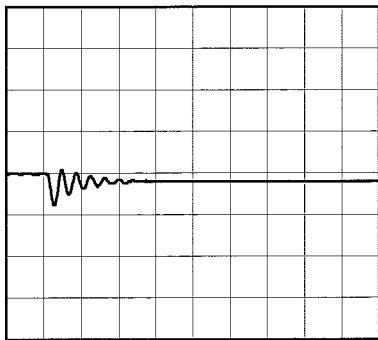
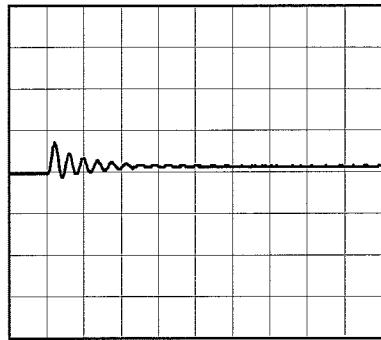
Min. Load (0A)  $\longleftrightarrow$   
 Load 50% (1.5A)

100mV/div

200  $\mu$ s/div200  $\mu$ s/div

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

100mV/div

200  $\mu$ s/div200  $\mu$ s/div

**COSEL**

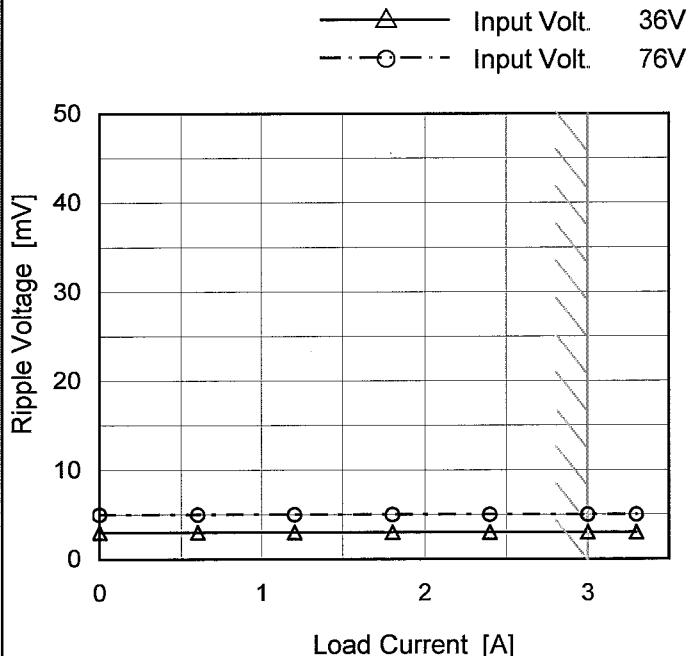
Model SFS154805/SFCS154805

Item Ripple Voltage (by Load Current)

Object +5V3A

 Temperature 25°C  
 Testing Circuitry Figure C

## 1. Graph



## 2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.0	3	5
0.6	3	5
1.2	3	5
1.8	3	5
2.4	3	5
3.0	3	5
3.3	3	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]

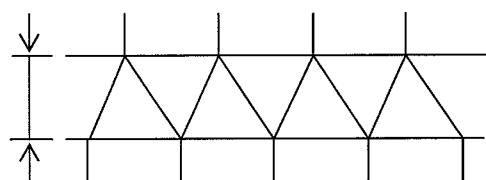


Fig. Complex Ripple Wave Form

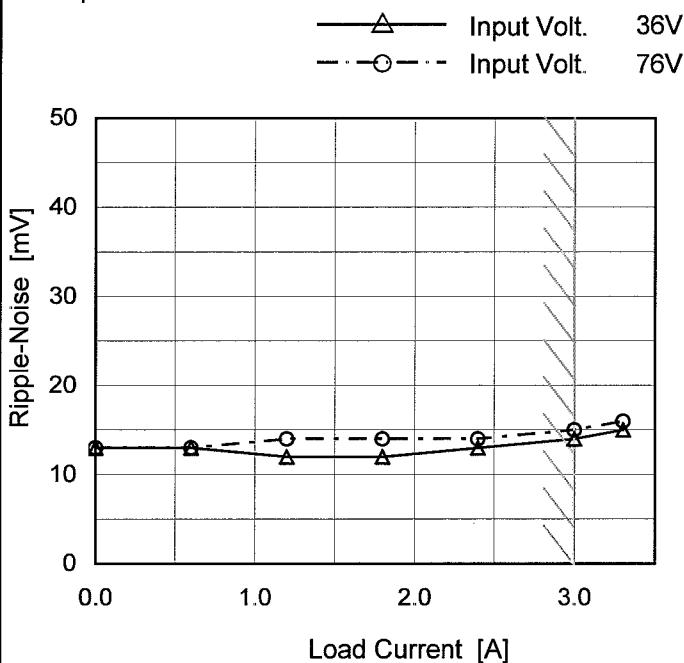
COSEL

Model SFS154805/SFCS154805

Item Ripple-Noise

Object +5V3A

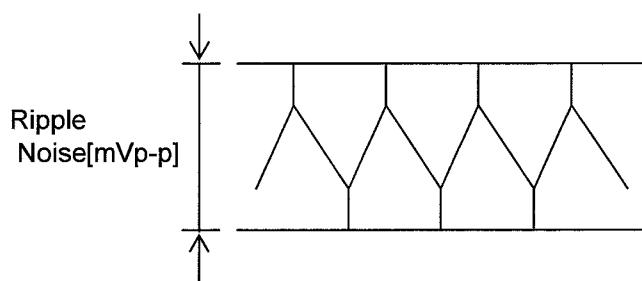
## 1. Graph



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.

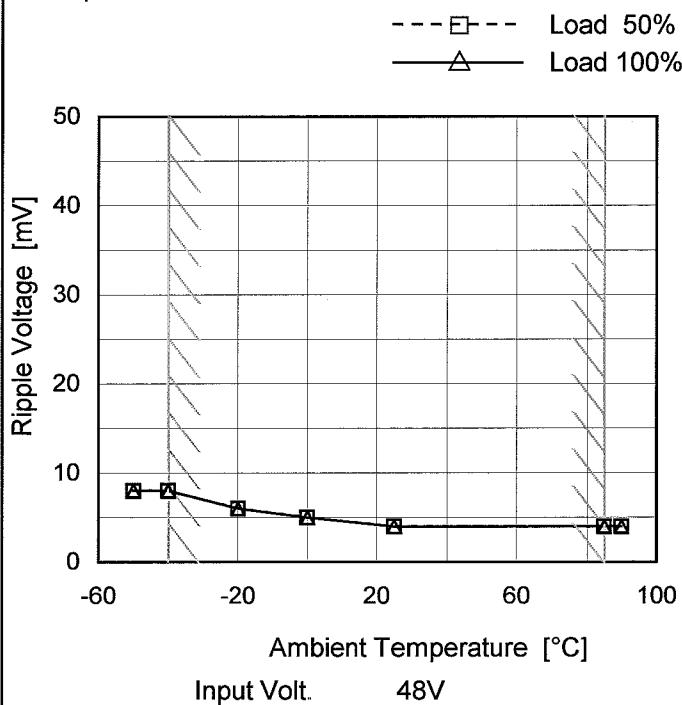
Temperature 25°C  
Testing Circuitry Figure C

## 2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.0	13	13
0.6	13	13
1.2	12	14
1.8	12	14
2.4	13	14
3.0	14	15
3.3	15	16
--	-	-
--	-	-
--	-	-
--	-	-

Model	SFS154805/SFCS154805
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

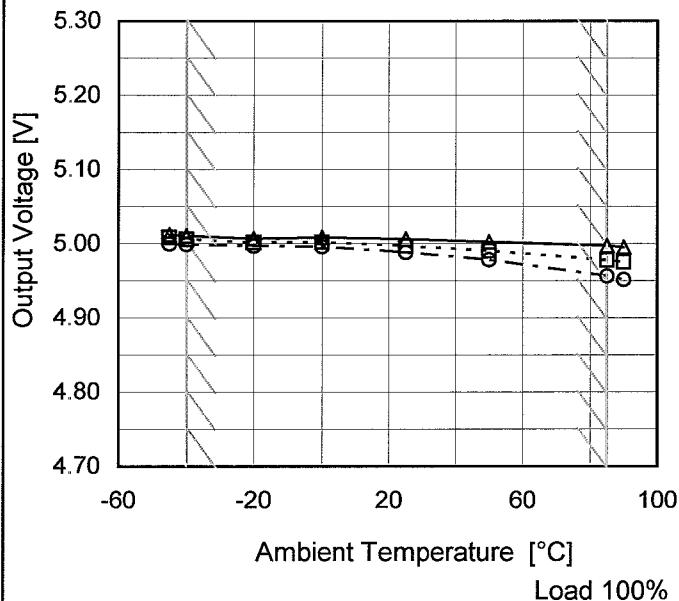
## 2. Values

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

Model	SFS154805/SFCS154805
Item	Ambient Temperature Drift
Object	+5V3A

## 1.Graph

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



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

Testing Circuitry Figure A

## 2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
-45	5.012	5.009	5.000
-40	5.011	5.006	4.999
-20	5.007	5.002	4.997
0	5.009	5.002	4.996
25	5.006	4.997	4.988
50	5.003	4.991	4.979
85	4.997	4.978	4.956
90	4.995	4.975	4.952
--	-	-	-
--	-	-	-
--	-	-	-



Model	SFS154805/SFCS154805	Testing Circuitry Figure A
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 =  $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	85	36	0	5.149	±98	±2.0
Minimum Voltage	85	76	3	4.954		

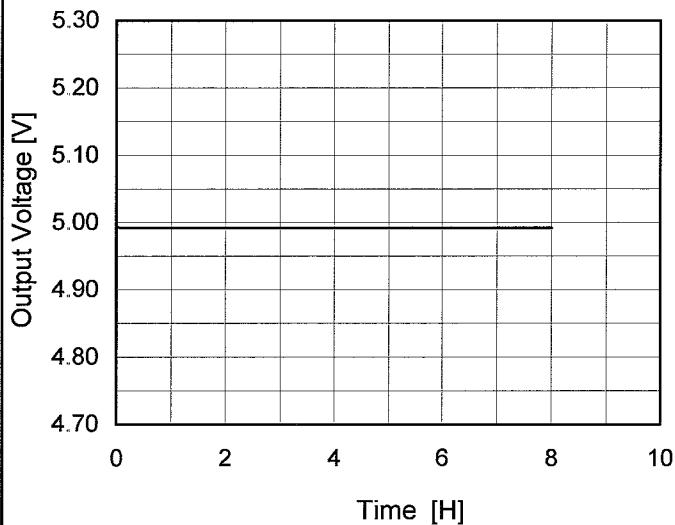
**COSEL**

Model SFS154805/SFCS154805

Item Time Lapse Drift

Object +5V3A

## 1. Graph



Input Volt. 48V  
Load 100%

Temperature 25°C  
Testing Circuitry Figure A

## 2. Values

Time since start [H]	Output Voltage [V]
0.0	4.997
0.5	4.992
1.0	4.993
2.0	4.992
3.0	4.992
4.0	4.992
5.0	4.992
6.0	4.993
7.0	4.992
8.0	4.992

**COSEL**

Model SFS154805/SFCS154805

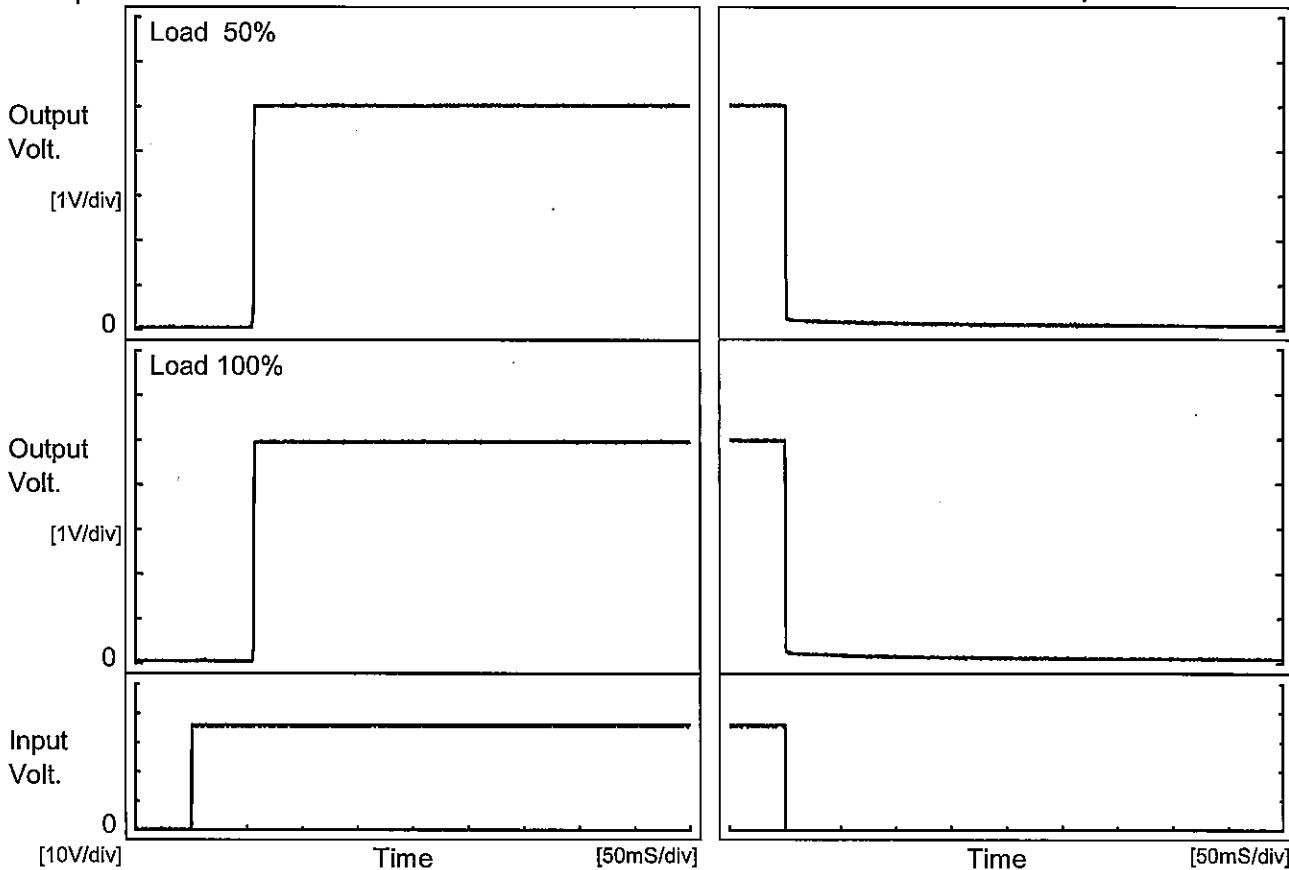
Item Rise and Fall Time

Object +5V3A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph

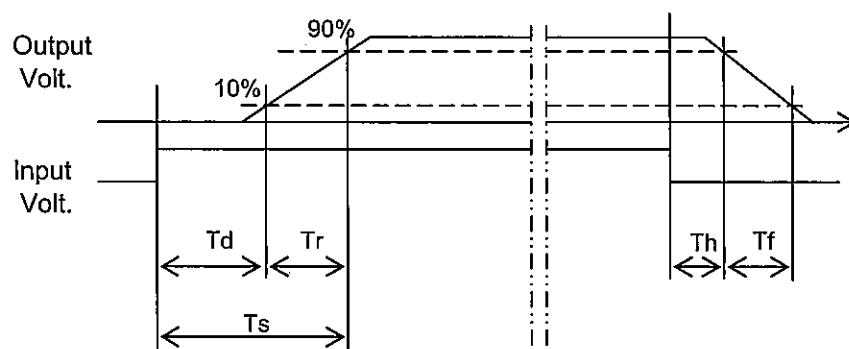
Input Volt. 36 V



## 2. Values

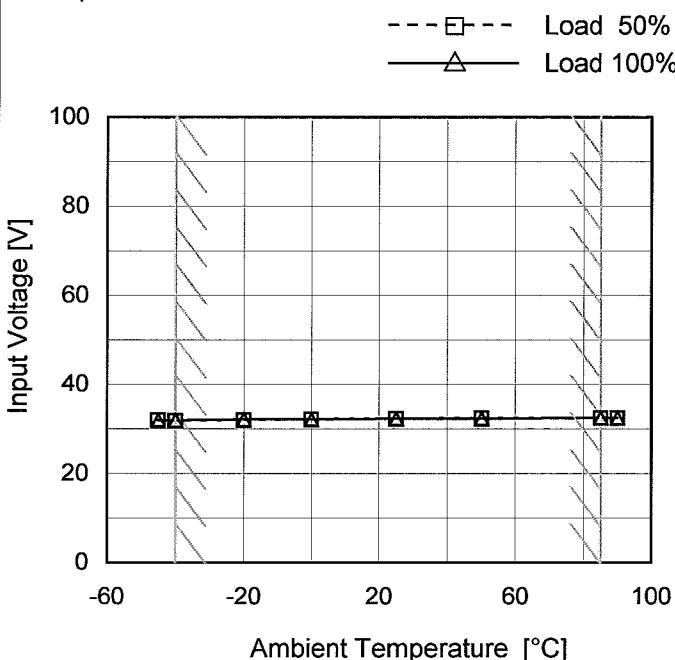
[mS]

Load	Time	Td	Tr	Ts	Th	Tf
50 %		56.3	0.5	56.8	0.3	0.5
100 %		56.3	0.5	56.8	0.3	0.5



Model	SFS154805/SFCS154805
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V3A

## 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%
-45	32.1	32.0
-40	31.9	32.0
-20	32.0	32.2
0	32.2	32.2
25	32.3	32.4
50	32.4	32.4
85	32.5	32.6
90	32.5	32.6
--	-	-
--	-	-
--	-	-

**COSEL**

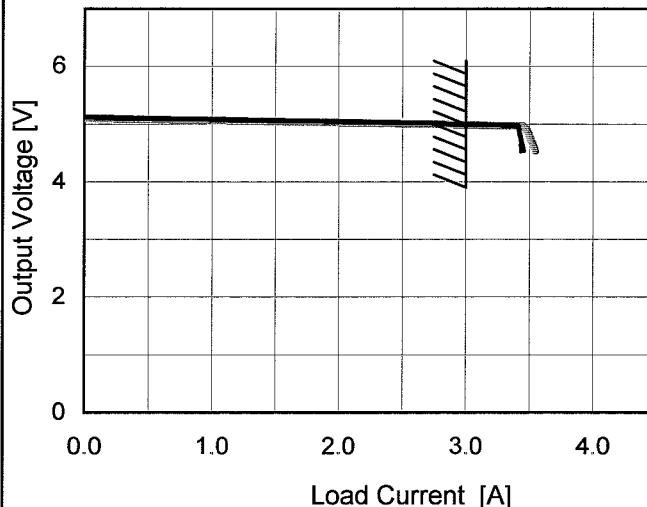
Model SFS154805/SFCS154805

Item Overcurrent Protection

Object +5V3A

## 1. Graph

— Input Volt. 36V  
 — Input Volt. 48V  
 - - - Input Volt. 76V



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

When the output voltage fell to less than 4.50V, the unit shuts off the output by operating low voltage protection.

 Temperature 25°C  
 Testing Circuitry Figure A

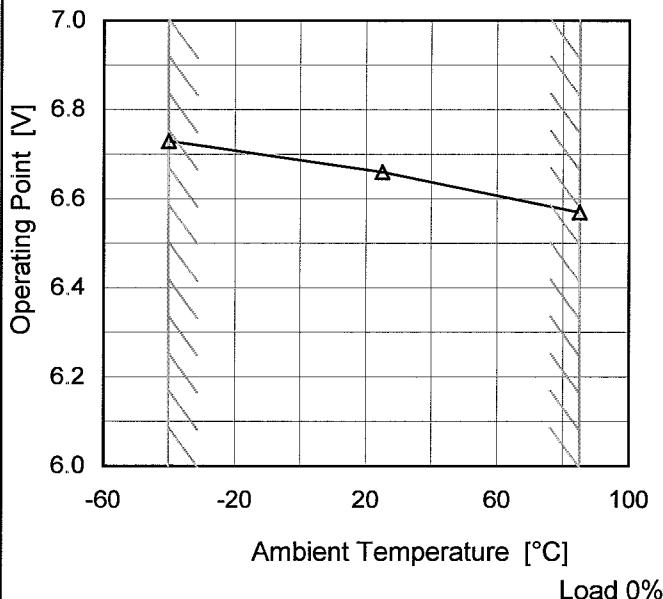
## 2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
5.00	3.10	3.04	3.03
4.75	3.42	3.43	3.51
4.50	3.43	3.46	3.55
-	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Model	SFS154805/SFCS154805
Item	Overvoltage Protection
Object	+5V3A

1.Graph

—△— Input Volt. 48V



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

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 48[V]	Input Volt.	Input Volt.
-40	6.73	-	-
25	6.66	-	-
85	6.57	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

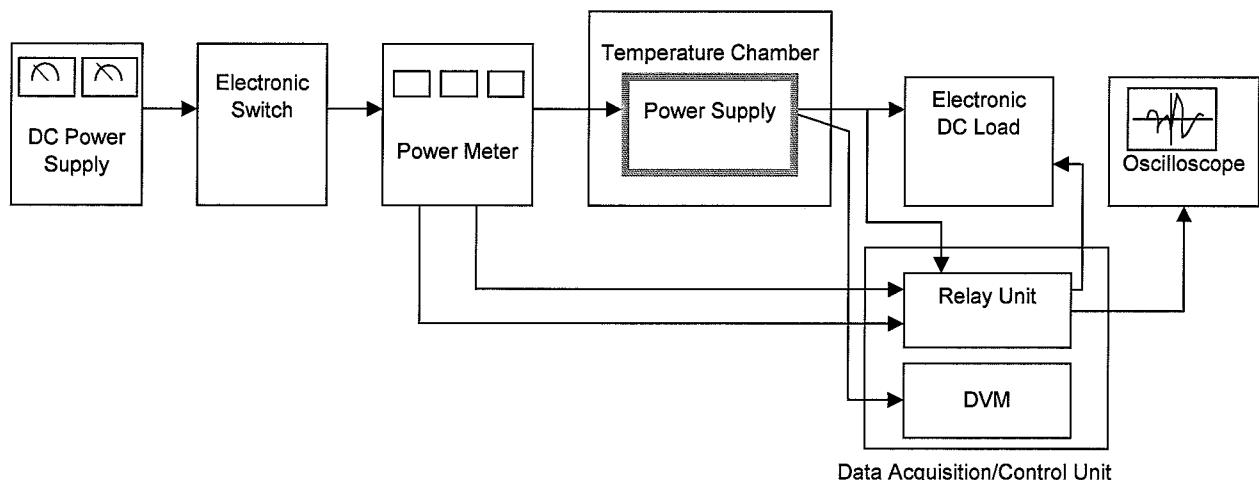


Figure A

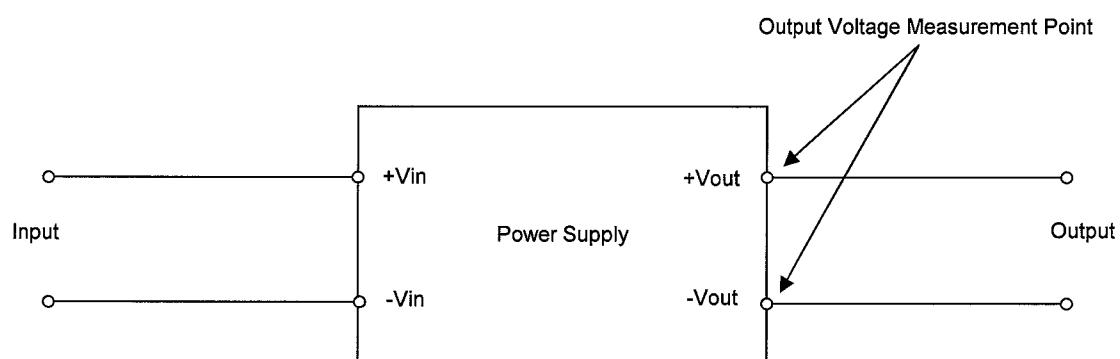


Figure B (General Electric Characteristic)

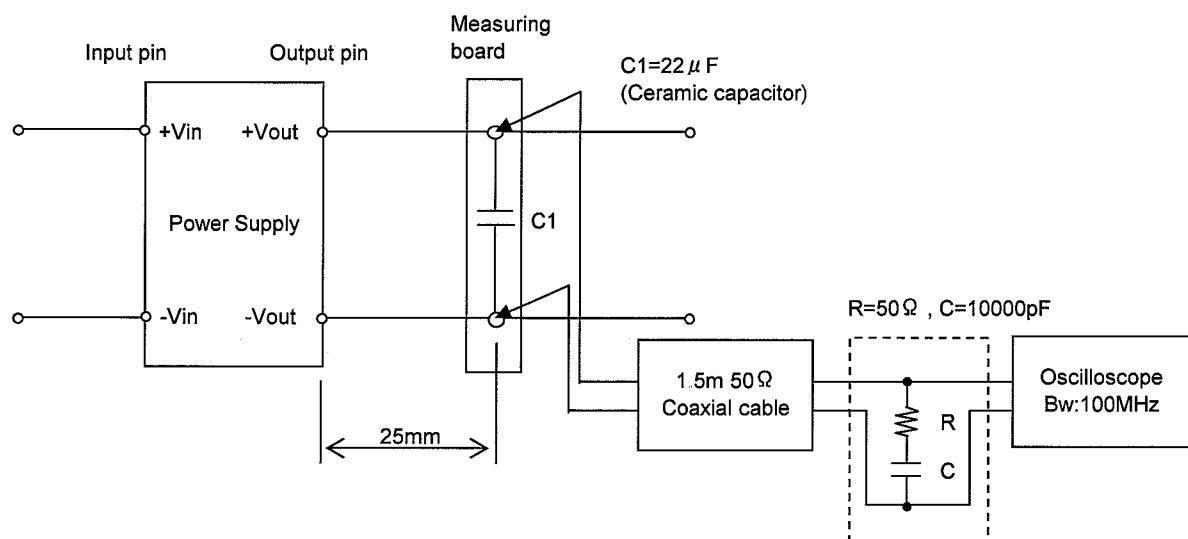


Figure C (Ripple and Ripple noise Characteristic)