



# TEST DATA OF SFS154812/SFCS154812

Regulated DC Power Supply  
May.31. 2007

Approved by :

  
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**COSEL CO.,LTD.**

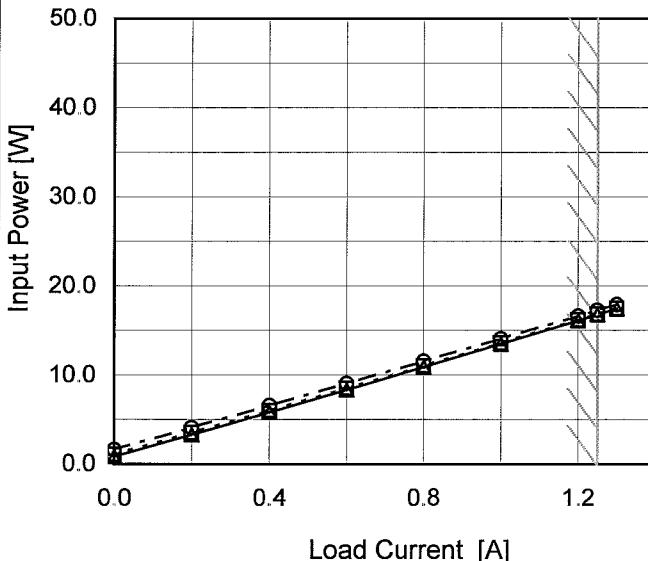
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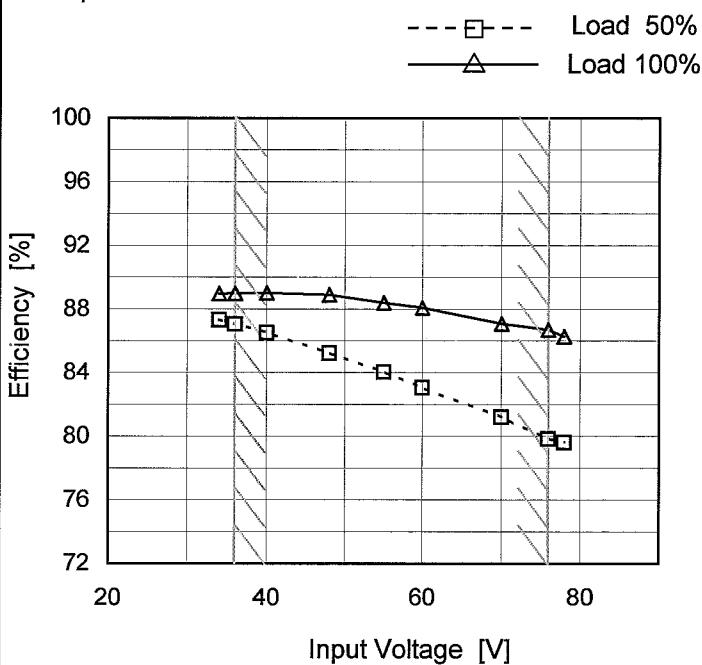
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Note: Slanted line shows the range of the rated load current.

Model	SFS154812/SFCS154812
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%
34	87.3	89.0
36	87.1	89.0
40	86.5	89.0
48	85.2	88.9
55	84.1	88.4
60	83.1	88.1
70	81.2	87.1
76	79.9	86.7
78	79.6	86.3

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Load Current [A]	Efficiency [36V] (%)	Efficiency [48V] (%)	Efficiency [76V] (%)																															
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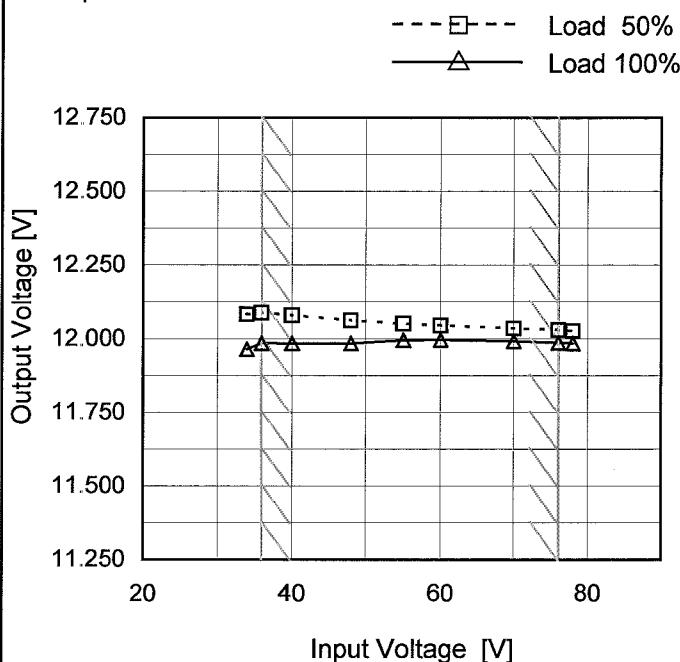
## 2.Values

Load Current [A]	Efficiency [%]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	-	-	-
0.20	73.4	68.7	59.4
0.40	83.3	80.6	73.4
0.60	86.9	85.0	79.6
0.80	88.4	87.1	82.9
1.00	89.0	88.2	85.0
1.20	89.1	88.8	86.4
1.25	89.0	88.9	86.7
1.30	89.0	88.9	86.8
--	-	-	-
--	-	-	-

Model	SFS154812/SFCS154812
Item	Line Regulation
Object	+12V1.25A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



## 2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
34	12.083	11.964
36	12.089	11.986
40	12.080	11.984
48	12.062	11.985
55	12.051	11.995
60	12.045	11.996
70	12.036	11.992
76	12.030	11.987
78	12.027	11.984

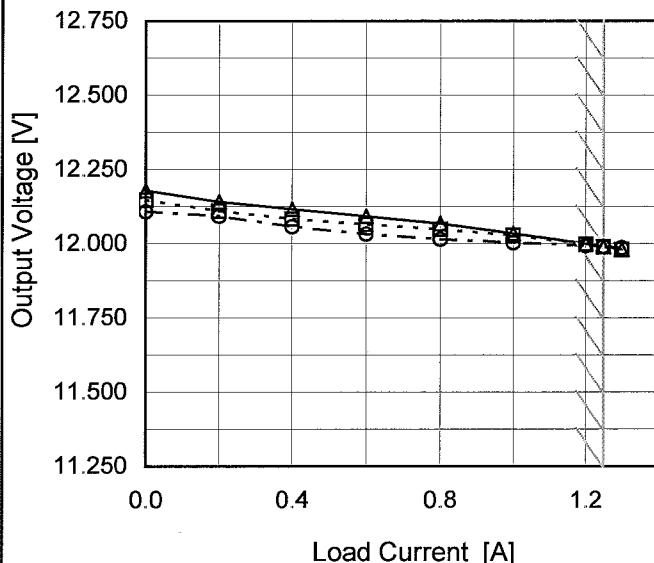
Note: Slanted line shows the range of the rated input voltage.

**COSEL**

Model	SFS154812/SFCS154812
Item	Load Regulation
Object	+12V1.25A

## 1. Graph

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

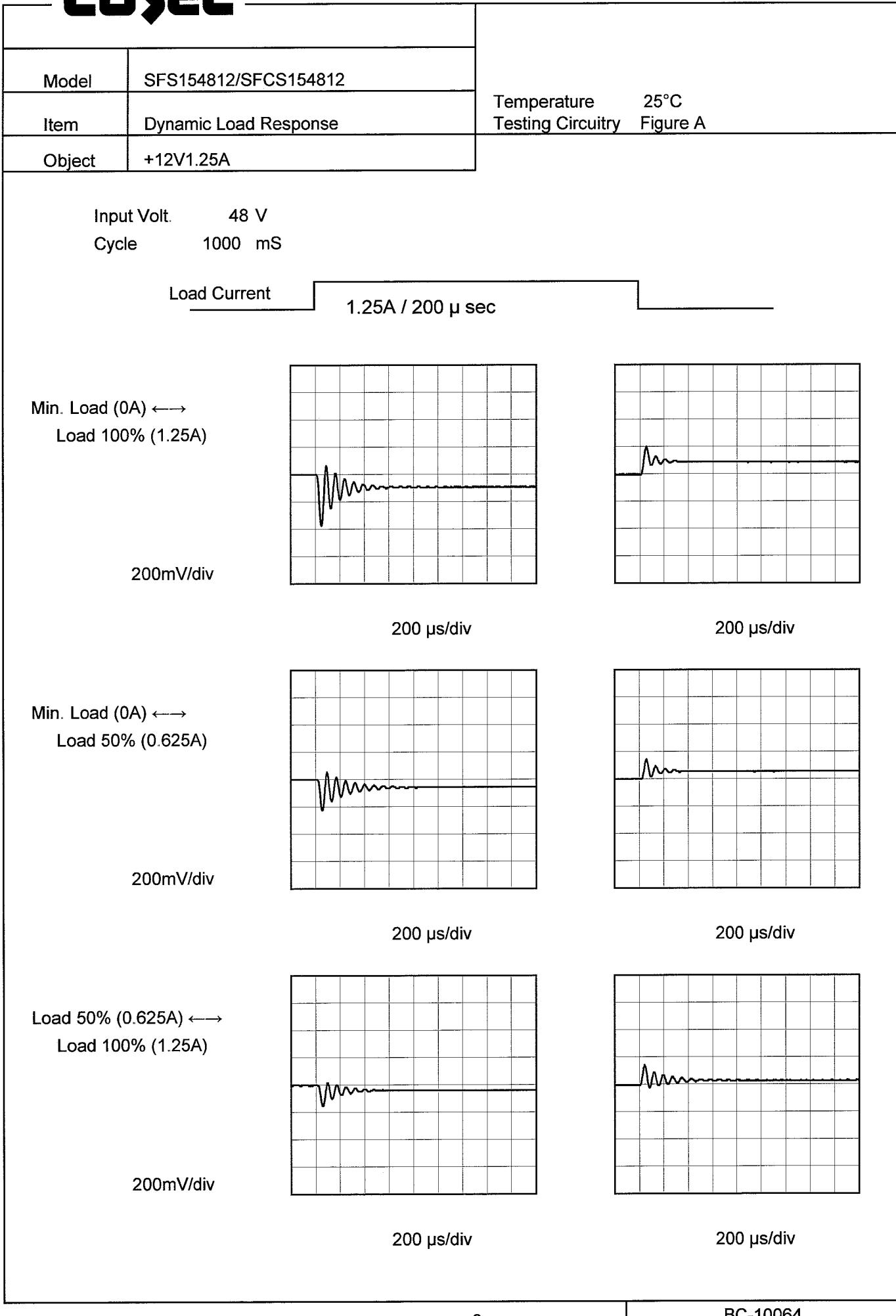


Note: Slanted line shows the range of the rated load current.

 Temperature 25°C  
 Testing Circuitry Figure A

## 2. Values

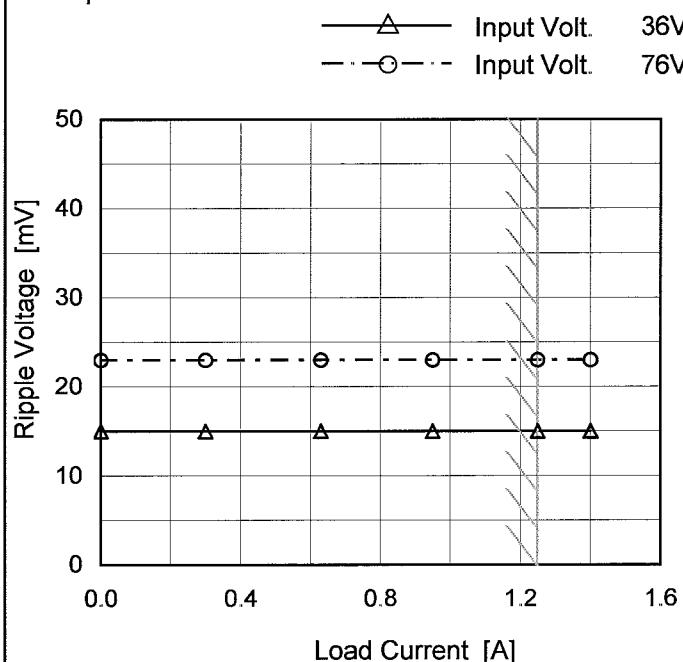
Load Current [A]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	12.179	12.147	12.108
0.20	12.141	12.110	12.093
0.40	12.116	12.083	12.057
0.60	12.093	12.065	12.032
0.80	12.068	12.048	12.015
1.00	12.035	12.028	12.003
1.20	12.000	11.998	11.993
1.25	11.991	11.989	11.990
1.30	11.981	11.979	11.986
--	-	-	-
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**COSEL**

Model	SFS154812/SFCS154812
Item	Ripple Voltage (by Load Current)
Object	+12V1.25A

## 1. Graph



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]

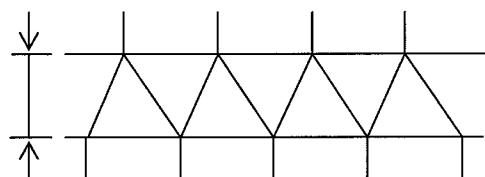


Fig Complex Ripple Wave Form

Temperature 25°C  
Testing Circuitry Figure C

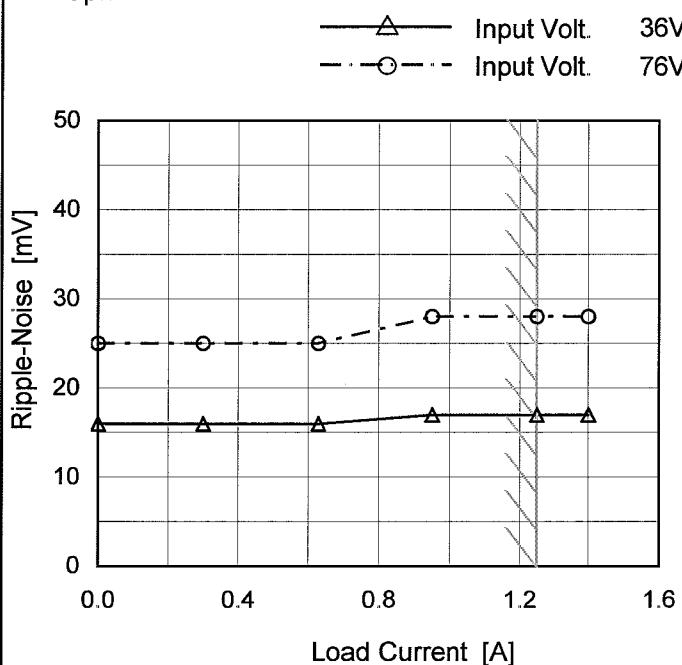
## 2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	15	23
0.30	15	23
0.63	15	23
0.95	15	23
1.25	15	23
1.40	15	23
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

Model	SFS154812/SFCS154812
Item	Ripple-Noise
Object	+12V1.25A

Temperature 25°C  
Testing Circuitry Figure C

## 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.

## 2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	16	25
0.30	16	25
0.63	16	25
0.95	17	28
1.25	17	28
1.40	17	28
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

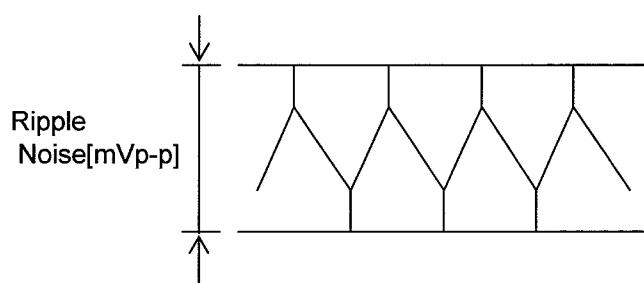


Fig.Complex Ripple Noise Wave Form

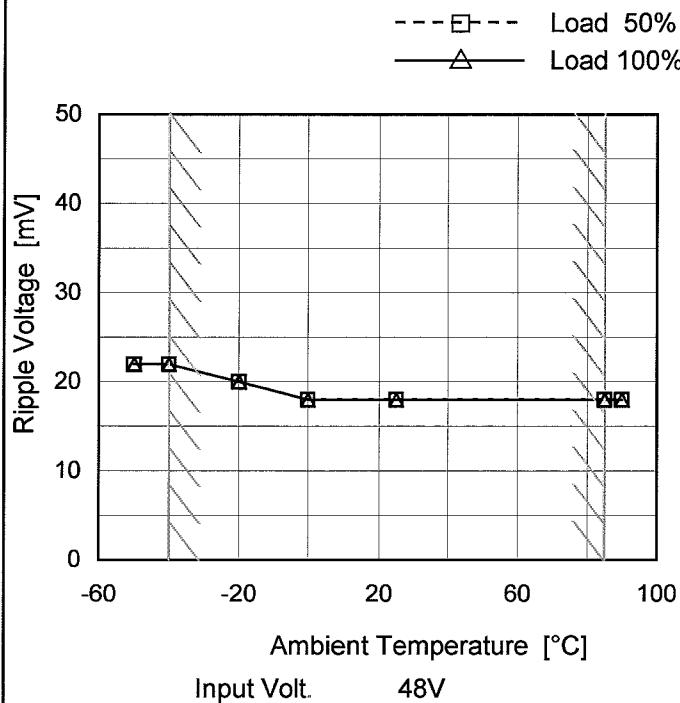
**COSEL**

Model SFS154812/SFCS154812

Item Ripple Voltage (by Ambient Temp.)

Object +12V1.25A

## 1. Graph



Measured by 100 MHz Oscilloscope.

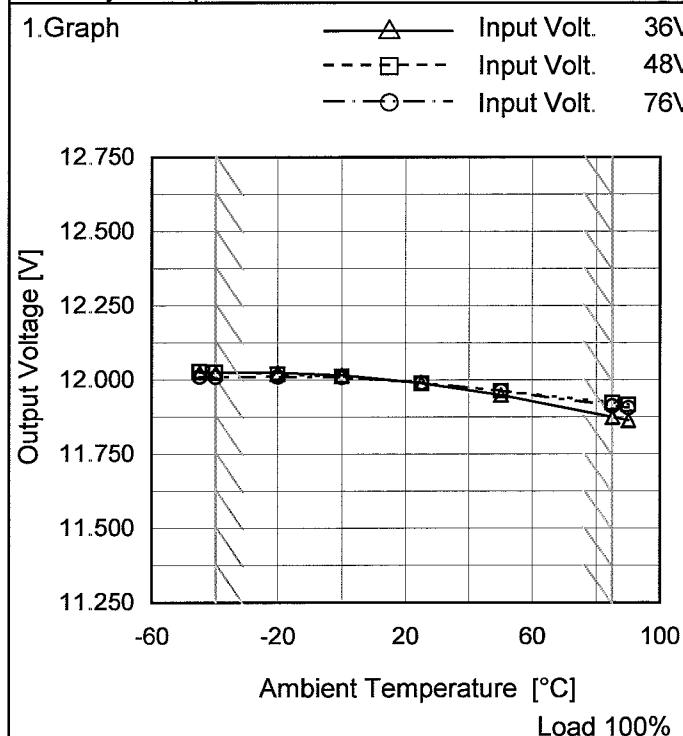
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure C

## 2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-50	22	22
-40	22	22
-20	20	20
0	18	18
25	18	18
85	18	18
90	18	18
--	-	-
--	-	-
--	-	-
--	-	-

Model	SFS154812/SFCS154812
Item	Ambient Temperature Drift
Object	+12V1.25A



## 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	12.026	12.030	12.011
-40	12.025	12.027	12.010
-20	12.024	12.019	12.011
0	12.016	12.012	12.009
25	11.989	11.989	11.990
50	11.950	11.963	11.964
85	11.876	11.923	11.913
90	11.864	11.917	11.906
--	-	-	-
--	-	-	-
--	-	-	-

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



Model	SFS154812/SFCS154812	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+12V1.25A	

### 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 - 1.25A

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

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

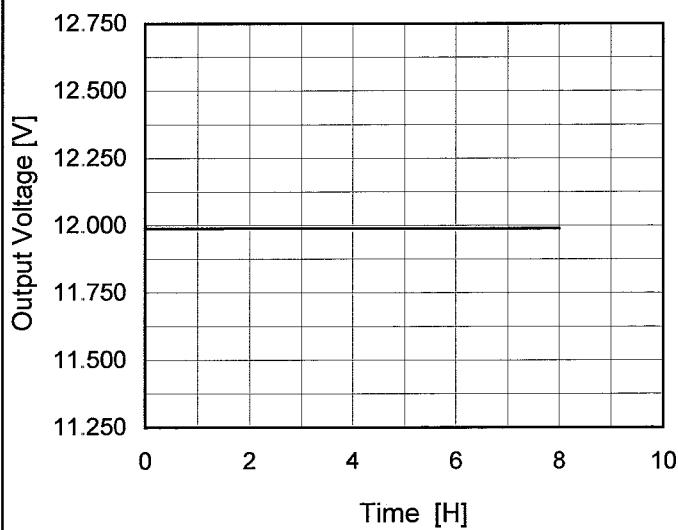
### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	85	36	0	12.195	$\pm 162$	$\pm 1.4$
Minimum Voltage	85	36	1.25	11.871		

Model	SFS154812/SFCS154812
Item	Time Lapse Drift
Object	+12V1.25A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



Input Volt. 48V  
Load 100%

## 2. Values

Time since start [H]	Output Voltage [V]
0.0	12.005
0.5	11.989
1.0	11.989
2.0	11.990
3.0	11.990
4.0	11.989
5.0	11.989
6.0	11.989
7.0	11.989
8.0	11.989

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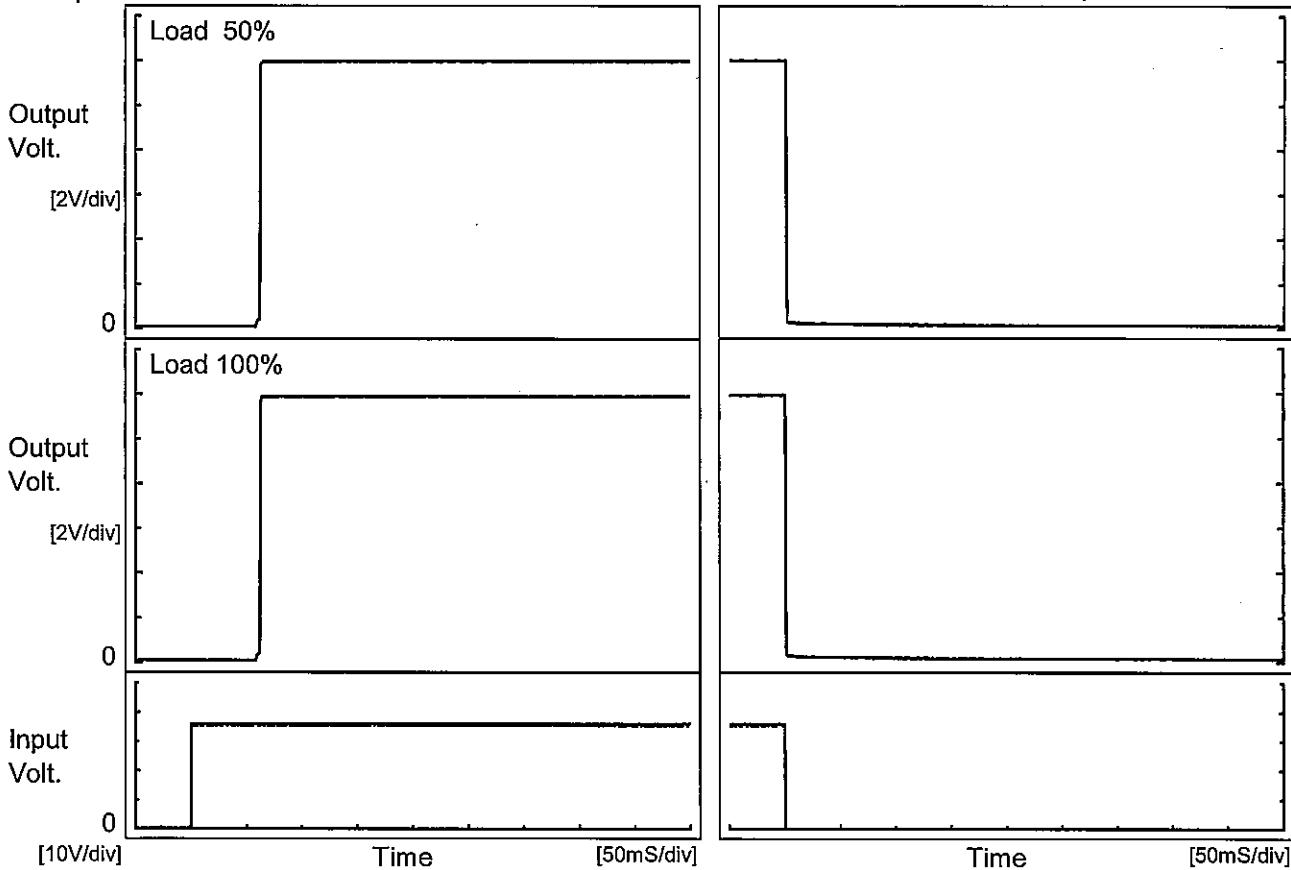
Model SFS154812/SFCS154812

Temperature 25°C  
Testing Circuitry Figure A

Item Rise and Fall Time

Object +12V1.25A

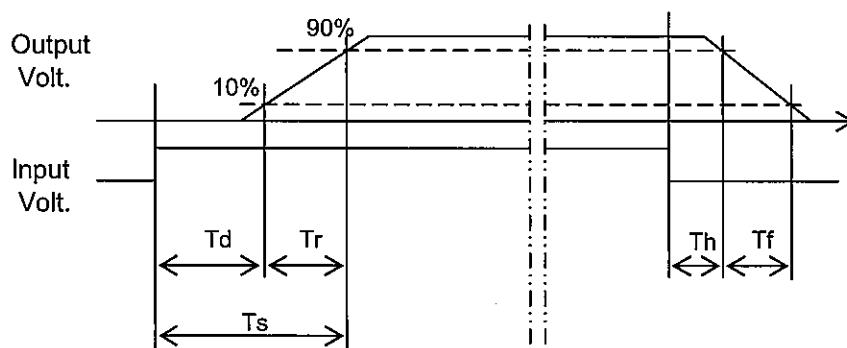
## 1. Graph



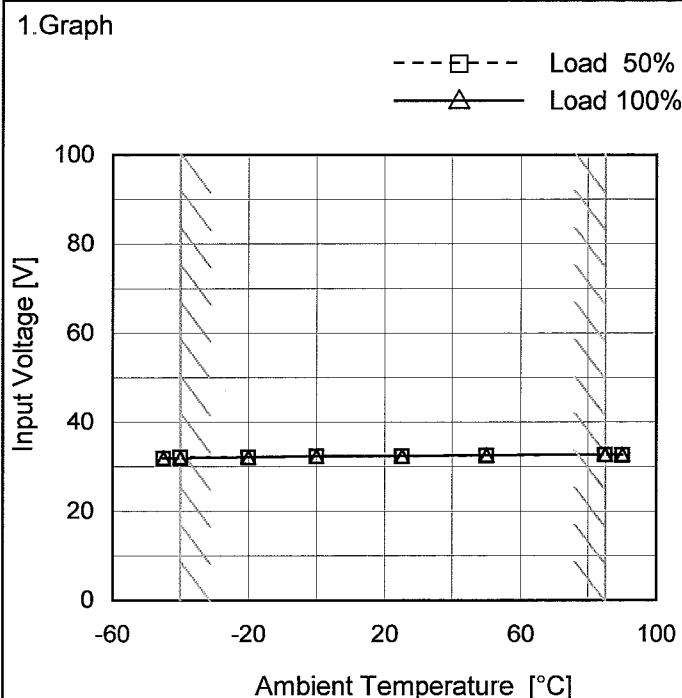
## 2. Values

[mS]

Load	Time	Td	Tr	Ts	Th	Tf
50 %		62.5	0.8	63.3	0.3	1.3
100 %		62.3	0.8	63.1	0.3	0.8



Model	SFS154812/SFCS154812
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+12V1.25A



Testing Circuitry Figure A

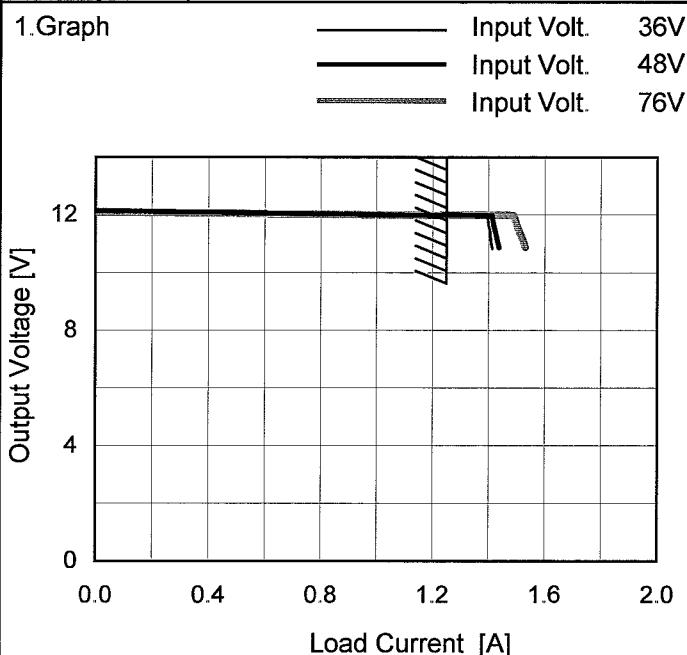
2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-45	31.9	32.0
-40	32.1	32.0
-20	32.2	32.2
0	32.3	32.4
25	32.4	32.4
50	32.5	32.6
85	32.7	32.8
90	32.7	32.8
--	-	-
--	-	-
--	-	-

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

**COSEL**

Model	SFS154812/SFCS154812
Item	Overcurrent Protection
Object	+12V1.25A



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

When the output voltage fell to less than 10.8V, the unit shuts off the output by operating low voltage protection.

Temperature 25°C  
Testing Circuitry Figure A

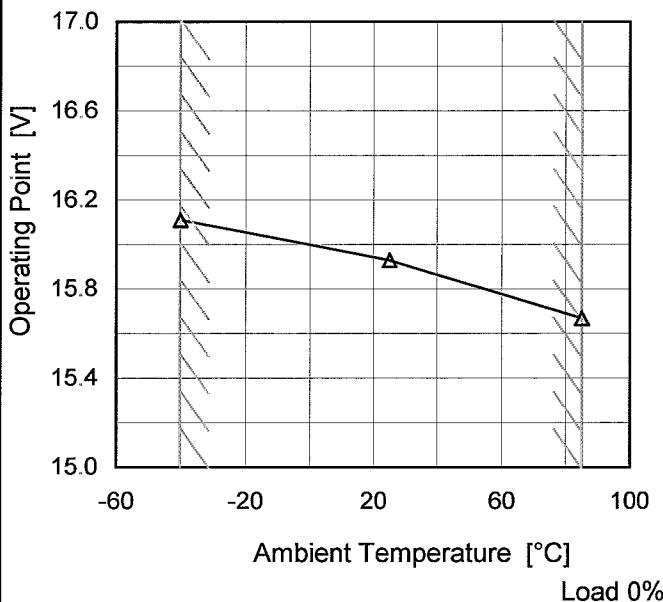
## 2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
12.0	1.29	1.29	1.29
11.4	1.41	1.42	1.51
10.8	1.41	1.44	1.53
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Model	SFS154812/SFCS154812
Item	Overvoltage Protection
Object	+12V1.25A

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	16.11	-	-
25	15.93	-	-
85	15.67	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

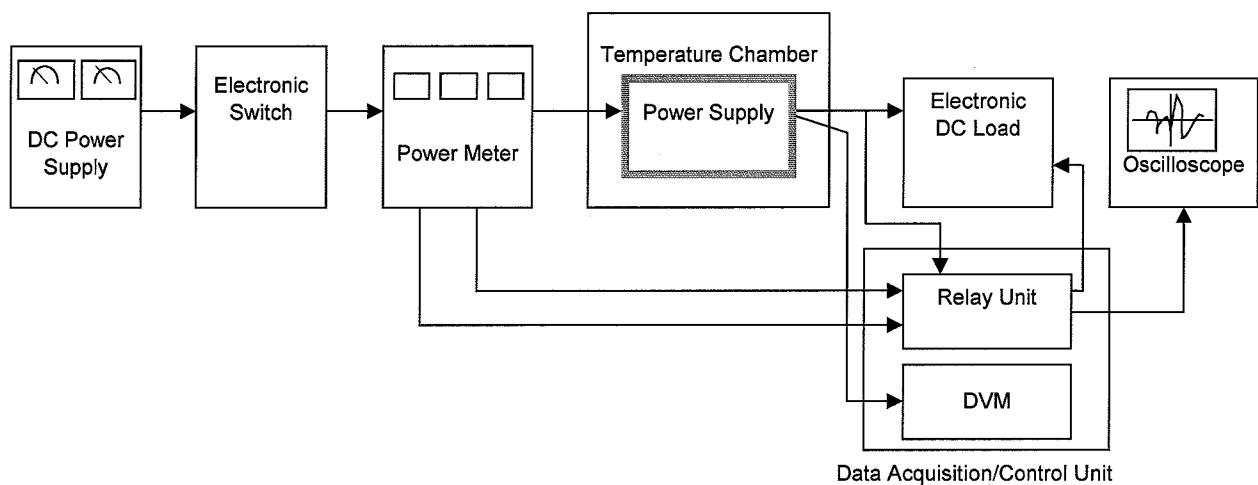


Figure A

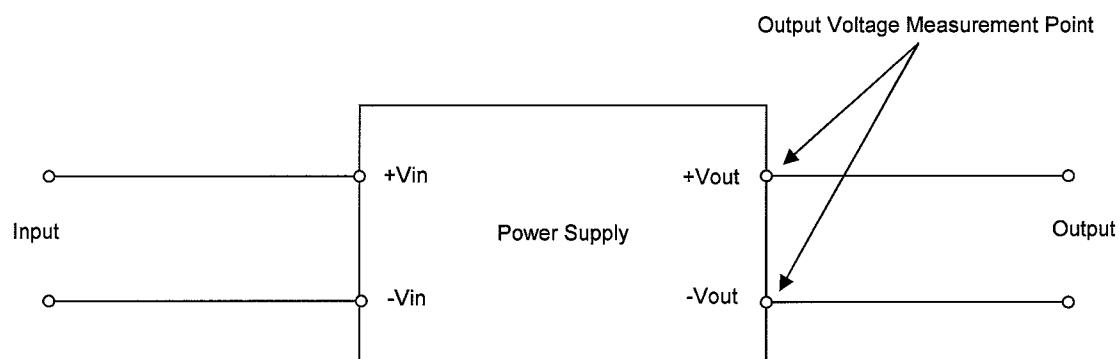


Figure B (General Electric Characteristic)

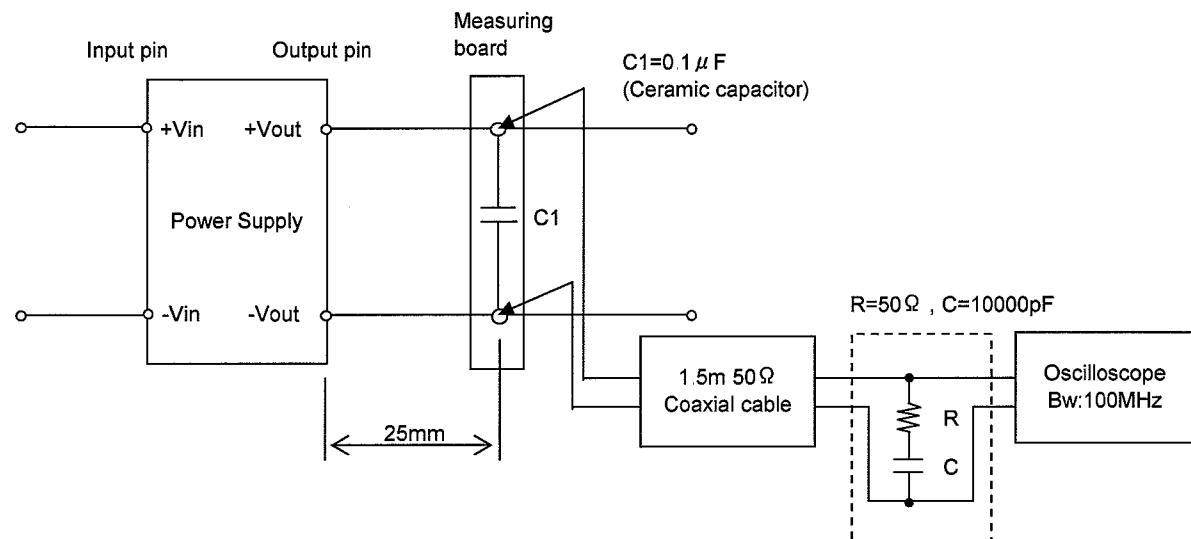


Figure C (Ripple and Ripple noise Characteristic)