

TEST DATA OF SFLS30482R5

Regulated DC Power Supply
May 12, 2007

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COSEL CO.,LTD.

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(Final Page 19)

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Model

SFLS30482R5

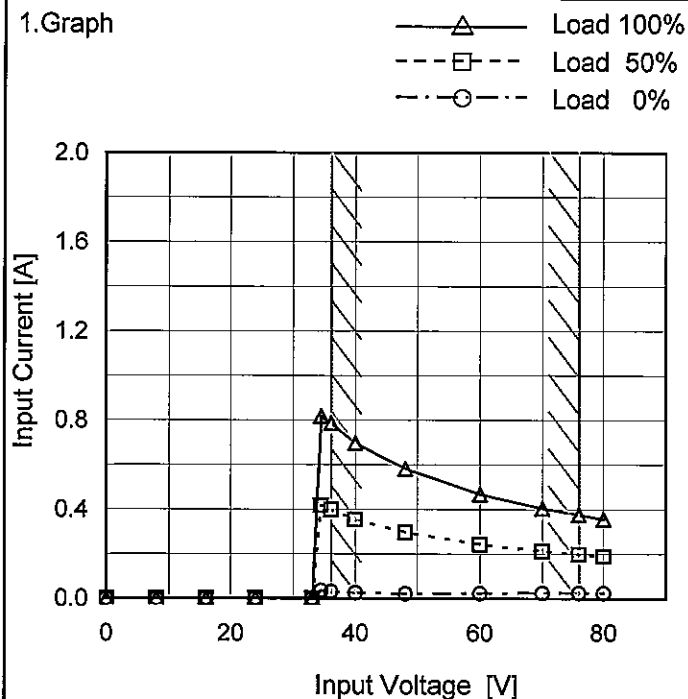
Item

Input Current (by Input Voltage)

Object

Temperature
Testing Circuitry25°C
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	0.036	0.419	0.820
36	0.032	0.399	0.787
40	0.026	0.356	0.698
48	0.022	0.298	0.584
60	0.024	0.243	0.468
70	0.024	0.213	0.405
76	0.025	0.198	0.376
80	0.025	0.189	0.357
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Model

SFLS30482R5

Item

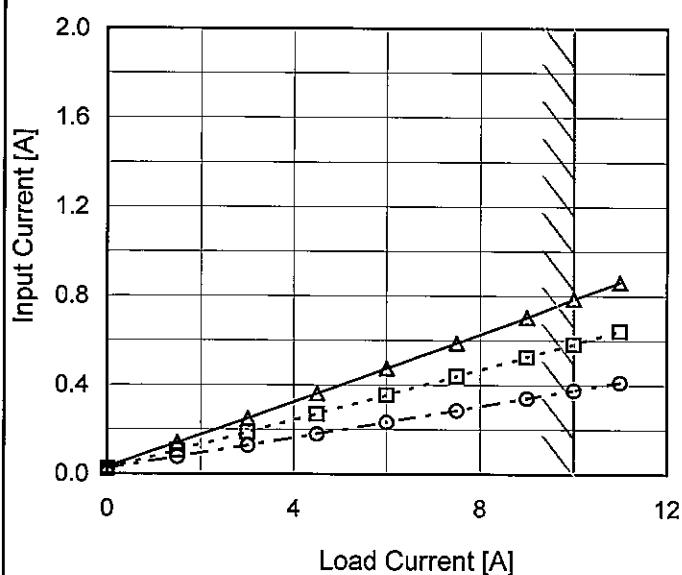
Input Current (by Load Current)

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	0.032	0.022	0.025
1.5	0.141	0.104	0.076
3.0	0.250	0.187	0.128
4.5	0.362	0.270	0.180
6.0	0.475	0.355	0.233
7.5	0.589	0.440	0.286
9.0	0.704	0.526	0.340
10.0	0.787	0.584	0.376
11.0	0.862	0.643	0.412
--	-	-	-
--	-	-	-

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Model

SFLS30482R5

Item

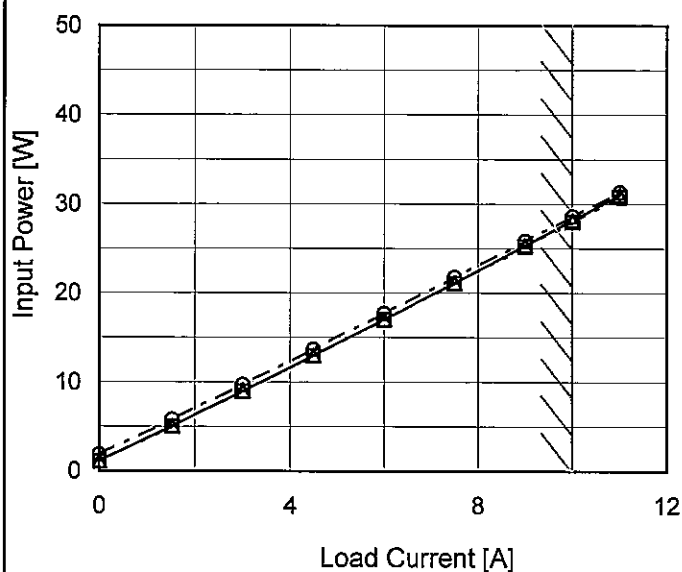
Input Power (by Load Current)

Object

Temperature
Testing Circuitry25°C
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 Power [W]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.0	1.15	1.07	1.86
1.5	5.05	5.00	5.78
3.0	8.99	8.95	9.71
4.5	12.99	12.95	13.70
6.0	17.05	16.99	17.71
7.5	21.17	21.08	21.76
9.0	25.35	25.22	25.84
10.0	28.20	27.99	28.58
11.0	31.03	30.80	31.34
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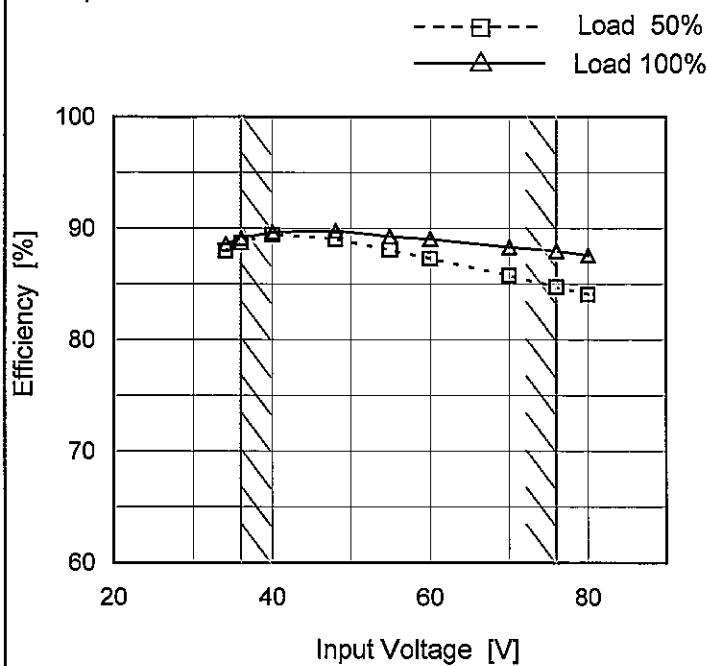
Model SFLS30482R5

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	88.0	88.6
36	88.7	89.1
40	89.4	89.7
48	89.1	89.8
55	88.1	89.3
60	87.3	89.1
70	85.8	88.3
76	84.7	88.0
80	84.1	87.6

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Model		SFLS30482R5		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
Object																																																								
1.Graph		<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>		2.Values																																																				
		<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>1.5</td><td>76.5</td><td>77.2</td><td>66.9</td></tr><tr><td>3.0</td><td>85.3</td><td>85.7</td><td>79.0</td></tr><tr><td>4.5</td><td>88.3</td><td>88.6</td><td>83.8</td></tr><tr><td>6.0</td><td>89.4</td><td>89.7</td><td>86.1</td></tr><tr><td>7.5</td><td>89.6</td><td>90.0</td><td>87.3</td></tr><tr><td>9.0</td><td>89.5</td><td>90.0</td><td>87.8</td></tr><tr><td>10.0</td><td>89.1</td><td>89.8</td><td>88.0</td></tr><tr><td>11.0</td><td>88.8</td><td>89.5</td><td>88.0</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	-	-	-	1.5	76.5	77.2	66.9	3.0	85.3	85.7	79.0	4.5	88.3	88.6	83.8	6.0	89.4	89.7	86.1	7.5	89.6	90.0	87.3	9.0	89.5	90.0	87.8	10.0	89.1	89.8	88.0	11.0	88.8	89.5	88.0	--	-	-	-	--	-	-	-
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Model	SFLS30482R5	Temperature 25°C Testing Circuitry Figure A																																	
Item	Line Regulation																																		
Object	+2.5V10A																																		
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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">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>34</td><td>2.548</td><td>2.515</td></tr><tr><td>36</td><td>2.548</td><td>2.514</td></tr><tr><td>40</td><td>2.548</td><td>2.514</td></tr><tr><td>48</td><td>2.548</td><td>2.514</td></tr><tr><td>55</td><td>2.548</td><td>2.514</td></tr><tr><td>60</td><td>2.548</td><td>2.514</td></tr><tr><td>70</td><td>2.549</td><td>2.515</td></tr><tr><td>76</td><td>2.549</td><td>2.515</td></tr><tr><td>80</td><td>2.550</td><td>2.515</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	34	2.548	2.515	36	2.548	2.514	40	2.548	2.514	48	2.548	2.514	55	2.548	2.514	60	2.548	2.514	70	2.549	2.515	76	2.549	2.515	80	2.550	2.515		
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Model	SFLS30482R5																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+2.5V10A	Testing Circuitry	Figure A																																																			
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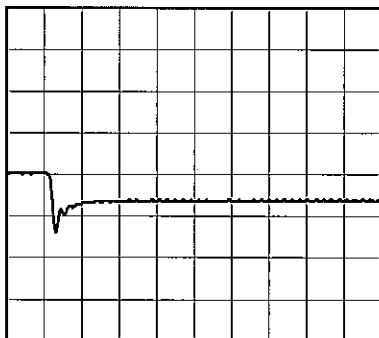
Model	SFLS30482R5	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+2.5V10A		

Input Volt. 48 V
Cycle 1000 mS

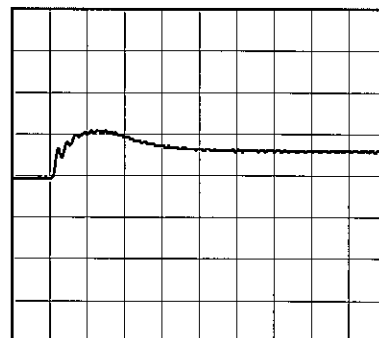
Load Current 10A / 200 μ sec

Min. Load (0A) \longleftrightarrow
Load 100% (10A)

100mV/div



200 μ s/div



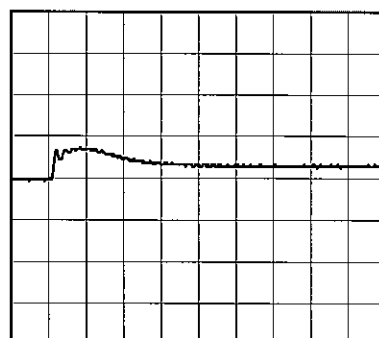
200 μ s/div

Min. Load (0A) \longleftrightarrow
Load 50% (5A)

100mV/div



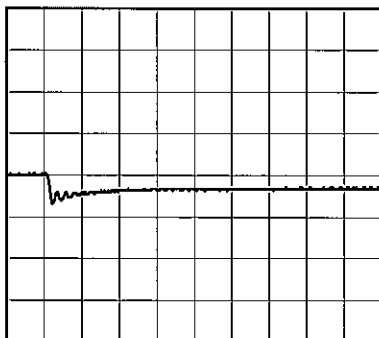
200 μ s/div



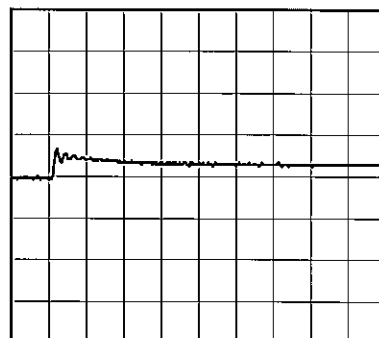
200 μ s/div

Load 50% (5A) \longleftrightarrow
Load 100% (10A)

100mV/div



200 μ s/div



200 μ s/div

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Model	SFLS30482R5																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+2.5V10A	Testing Circuitry	Figure C																																						
1.Graph		2.Values																																							
<div><div><div><div></div><div>—△—</div><div>Input Volt. 36V</div></div><div><div>- - -○- - -</div><div>Input Volt. 76V</div></div></div><div><div><div><div>25</div><div>20</div><div>15</div><div>10</div><div>5</div><div>0</div></div><div><div>Ripple Voltage [mV]</div></div><div><div>0</div><div>4</div><div>8</div><div>12</div></div><div><div>Load Current [A]</div></div></div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 36 [V]</th><th>Input Volt. 76 [V]</th></tr><tr><td>0</td><td>4</td><td>5</td></tr><tr><td>2</td><td>4</td><td>5</td></tr><tr><td>4</td><td>4</td><td>5</td></tr><tr><td>6</td><td>4</td><td>5</td></tr><tr><td>8</td><td>4</td><td>5</td></tr><tr><td>10</td><td>4</td><td>5</td></tr><tr><td>11</td><td>4</td><td>6</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><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 36 [V]	Input Volt. 76 [V]	0	4	5	2	4	5	4	4	5	6	4	5	8	4	5	10	4	5	11	4	6	--	-	-	--	-	-	--	-	-	--	-	-
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<div><div>Measured by 100 MHz Oscilloscope.</div><div>Ripple Voltage is shown as p-p in the figure below.</div><div>Note: Slanted line shows the range of the rated load current.</div></div>																																									
<div><div><div>Ripple [mVp-p]</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div></div></div> <div><div>Fig.Complex Ripple Wave Form</div></div>																																									

Model		SFLS30482R5	Temperature 25°C Testing Circuitry Figure C
Item		Ripple-Noise	
Object		+2.5V10A	
1.Graph			2.Values
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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Model		SFLS30482R5																																																				
Item		Ambient Temperature Drift																																																				
Object		+2.5V10A																																																				
1.Graph		<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> <div><div><div>Output Voltage [V]</div><div>2.650</div><div>2.600</div><div>2.550</div><div>2.500</div><div>2.450</div><div>2.400</div><div>2.350</div></div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>2.531</div><div>2.530</div><div>2.531</div><div>2.529</div><div>2.528</div><div>2.529</div><div>2.525</div><div>2.524</div><div>2.525</div><div>2.514</div><div>2.514</div><div>2.515</div><div>2.504</div><div>2.503</div><div>2.506</div><div>2.487</div><div>2.487</div><div>2.493</div><div>2.484</div><div>2.485</div><div>2.490</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div></div><div><div>-60</div><div>-20</div><div>20</div><div>60</div><div>100</div></div><div><div>Ambient Temperature [°C]</div><div>Load 100%</div></div></div> <div><div>Note: Slanted line shows the range of the rated ambient temperature.</div></div>		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>2.531</td><td>2.530</td><td>2.531</td></tr><tr><td>-40</td><td>2.531</td><td>2.529</td><td>2.531</td></tr><tr><td>-20</td><td>2.529</td><td>2.528</td><td>2.529</td></tr><tr><td>0</td><td>2.525</td><td>2.524</td><td>2.525</td></tr><tr><td>25</td><td>2.514</td><td>2.514</td><td>2.515</td></tr><tr><td>55</td><td>2.504</td><td>2.503</td><td>2.506</td></tr><tr><td>85</td><td>2.487</td><td>2.487</td><td>2.493</td></tr><tr><td>90</td><td>2.484</td><td>2.485</td><td>2.490</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	2.531	2.530	2.531	-40	2.531	2.529	2.531	-20	2.529	2.528	2.529	0	2.525	2.524	2.525	25	2.514	2.514	2.515	55	2.504	2.503	2.506	85	2.487	2.487	2.493	90	2.484	2.485	2.490	--	-	-	-	--	-	-	-	--	-	-	-
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BC-10098

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		Testing Circuitry Figure A
Model	SFLS30482R5	
Item	Output Voltage Accuracy	
Object	+2.5V10A	

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 - 10A

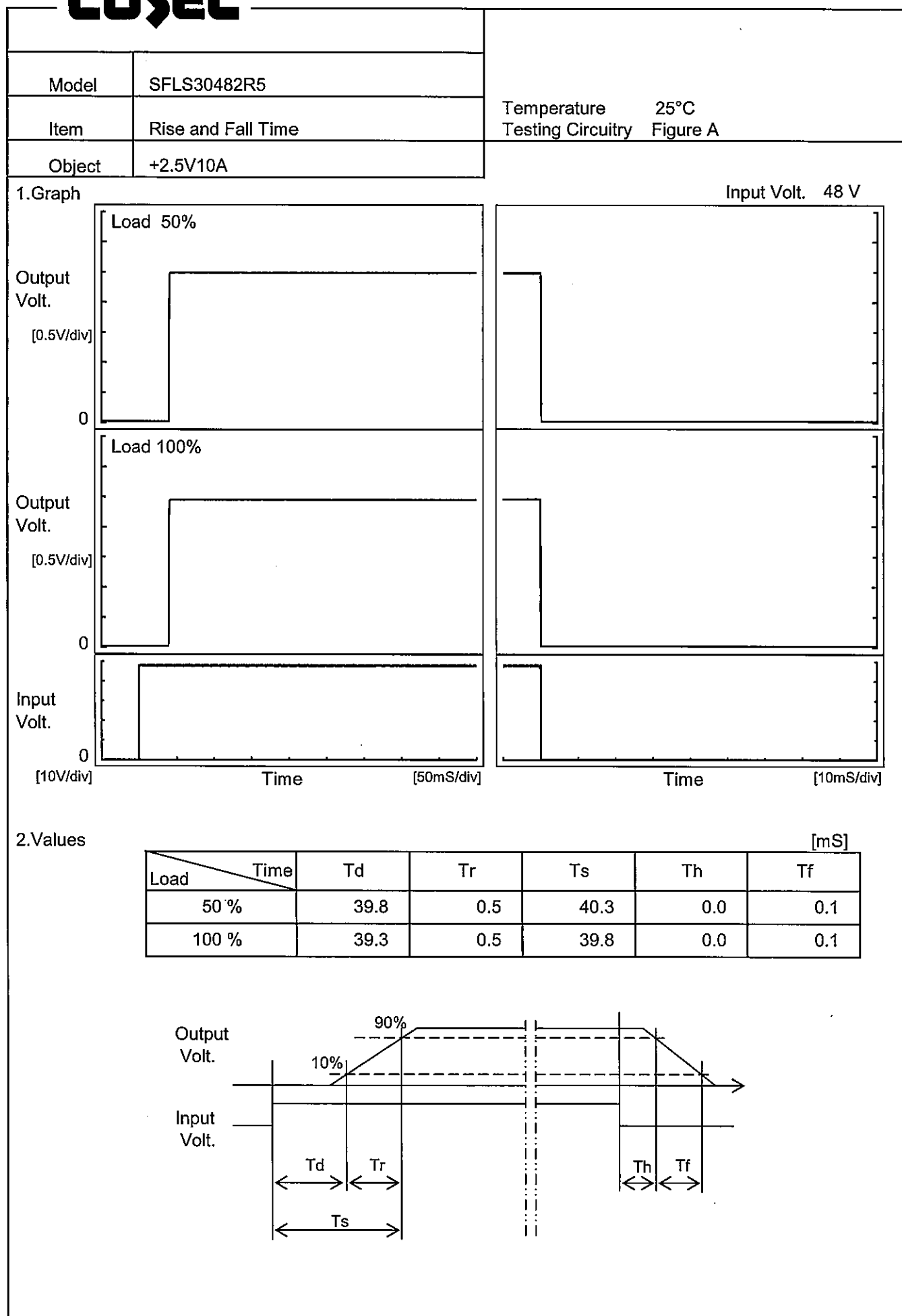
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

2. Values

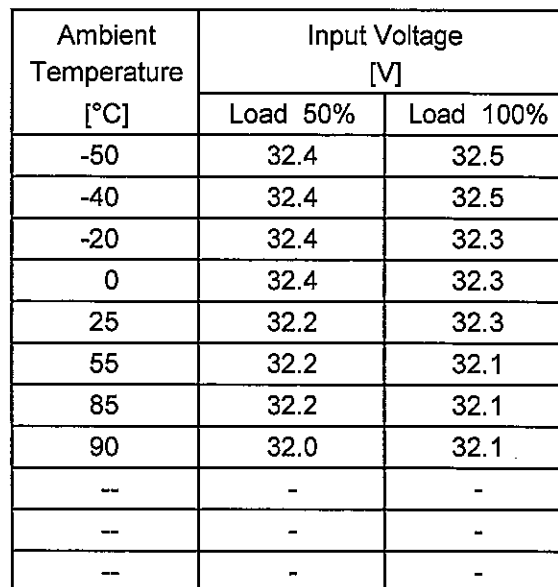
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	85	76	0	2.586	±50	±2.0
Minimum Voltage	85	36	10	2.487		

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Testing Circuitry Figure A

2.Values



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

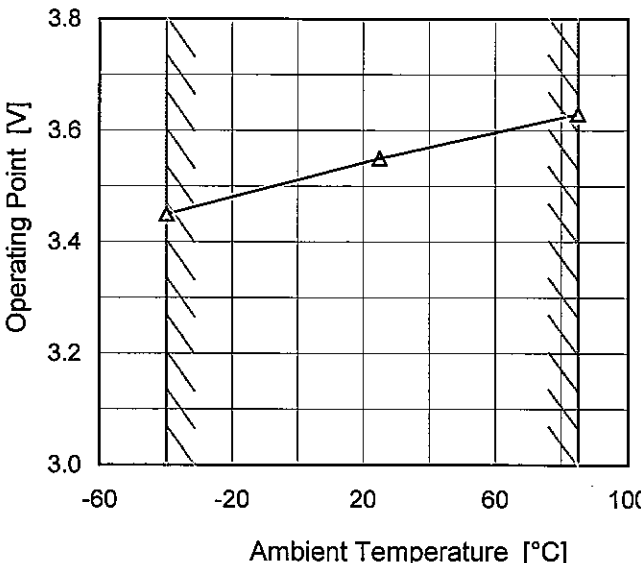
BC-10098

Model		SFLS30482R5	
Item		Overvoltage Protection	
Object		+2.5V10A	

1.Graph

—△— Input Volt. 48V

Operating Point [V]



Ambient Temperature [°C]

Load 0%

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

2.Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 48[V]	Input Volt.	Input Volt.
-40	3.45	-	-
25	3.55	-	-
85	3.63	-	-
--	-	-	-
--	-	-	-
--	-	-	-
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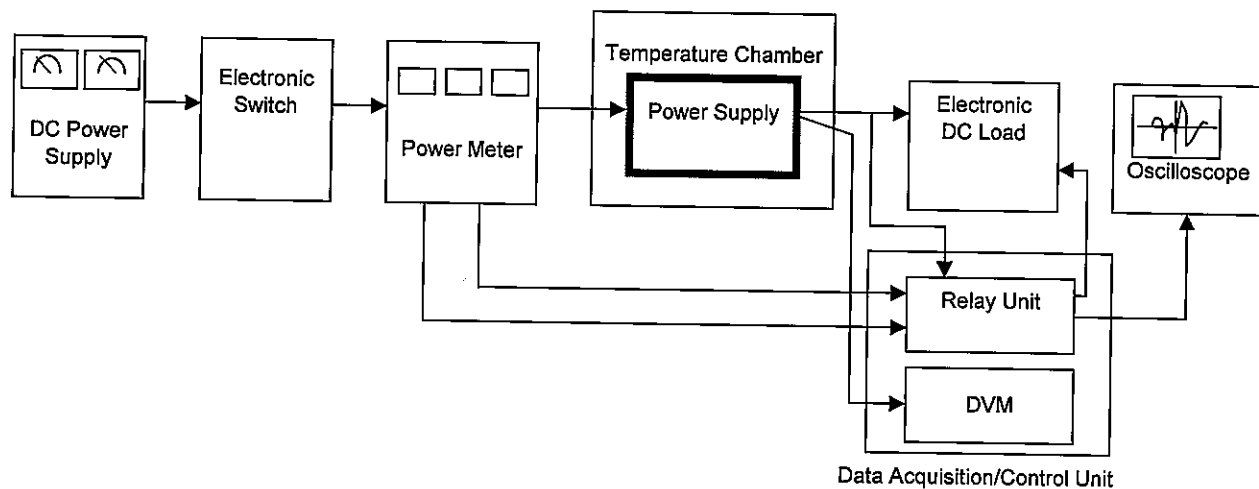


Figure A

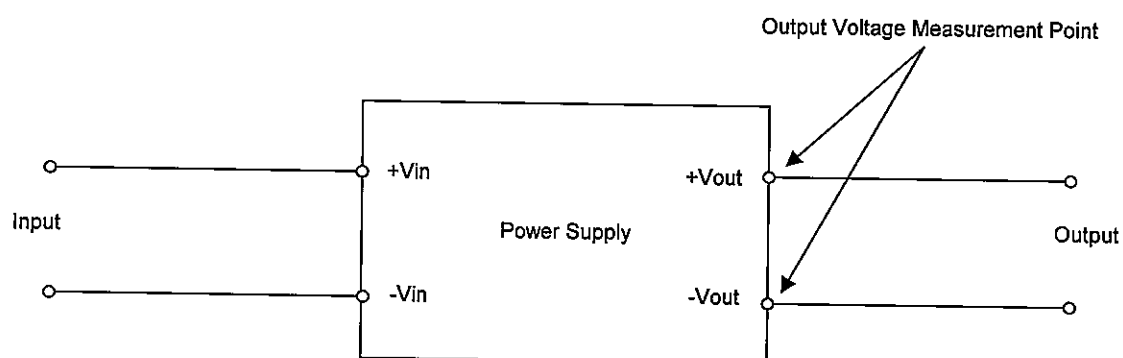


Figure B (General Electric Characteristic)

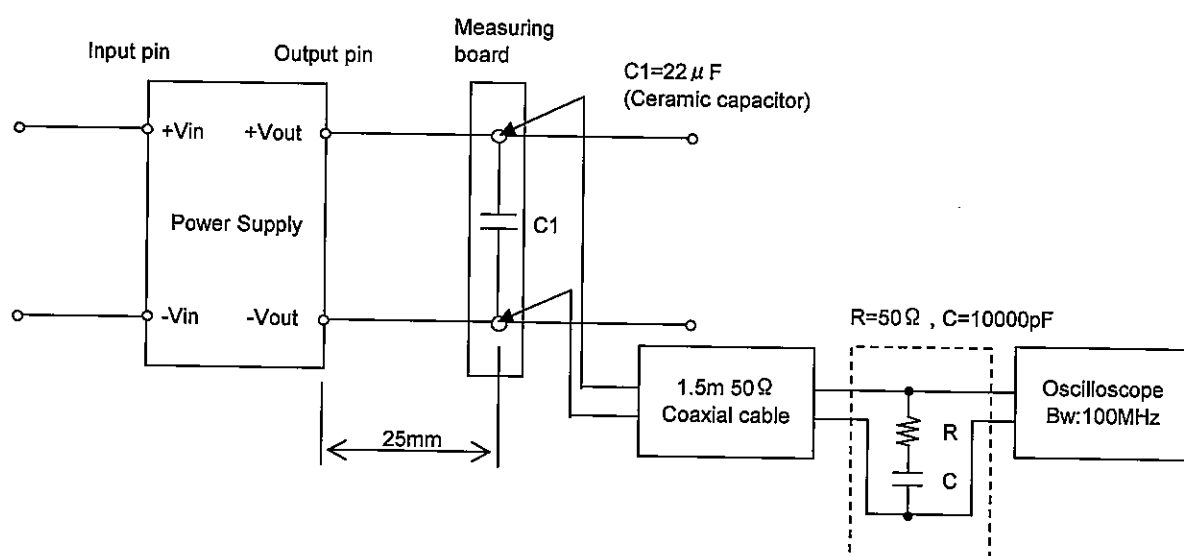


Figure C (Ripple and Ripple noise Characteristic)