

TEST DATA OF SPLFA75F-12

Regulated DC Power Supply
May 18, 2011

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Hiroaki Kitamura Design Engineer

COSEL CO.,LTD.

CONTENTS

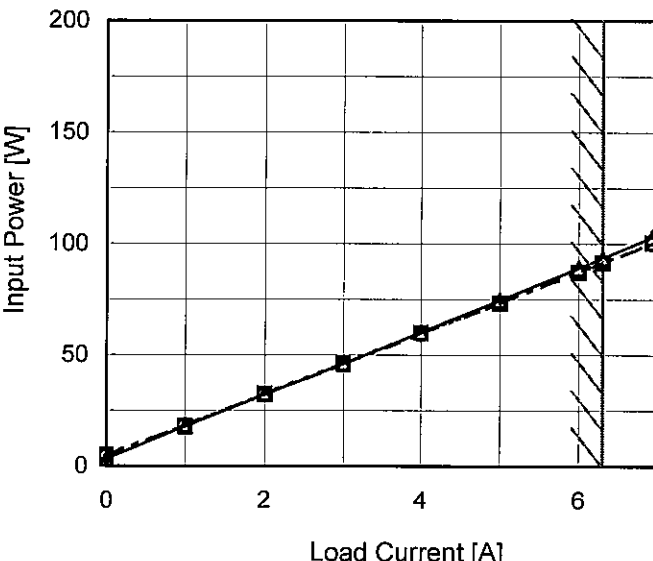
1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Power Factor (by Input Voltage)	5
6.Power Factor (by Load Current)	6
7.Inrush Current	7
8.Leakage Current	8
9.Line Regulation	9
10.Load Regulation	10
11.Dynamic Load Response	11
12.Ripple Voltage (by Load Current)	12
13.Ripple-Noise	13
14.Ripple Voltage (by Ambient Temperature)	14
15.Ambient Temperature Drift	15
16.Output Voltage Accuracy	16
17.Time Lapse Drift	17
18.Rise and Fall Time	18
19.Hold-Up Time	19
20.Instantaneous Interruption Compensation	20
21.Minimum Input Voltage for Regulated Output Voltage	21
22.Overcurrent Protection	22
23.Overvoltage Protection	23
24.Figure of Testing Circuitry	24

(Final Page 24)

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Model		SPLFA75F-12																																																				
Item		Input Current (by Load Current)																																																				
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1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>200V</div><div>230V</div></div></div> <p>Input Current [A]</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">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.068</td><td>0.050</td><td>0.044</td></tr><tr><td>1.00</td><td>0.195</td><td>0.131</td><td>0.115</td></tr><tr><td>2.00</td><td>0.340</td><td>0.202</td><td>0.178</td></tr><tr><td>3.00</td><td>0.478</td><td>0.277</td><td>0.244</td></tr><tr><td>4.00</td><td>0.619</td><td>0.346</td><td>0.310</td></tr><tr><td>5.00</td><td>0.764</td><td>0.407</td><td>0.374</td></tr><tr><td>6.00</td><td>0.911</td><td>0.480</td><td>0.439</td></tr><tr><td>6.30</td><td>0.955</td><td>0.502</td><td>0.457</td></tr><tr><td>6.93</td><td>1.051</td><td>0.550</td><td>0.495</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. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	0.068	0.050	0.044	1.00	0.195	0.131	0.115	2.00	0.340	0.202	0.178	3.00	0.478	0.277	0.244	4.00	0.619	0.346	0.310	5.00	0.764	0.407	0.374	6.00	0.911	0.480	0.439	6.30	0.955	0.502	0.457	6.93	1.051	0.550	0.495	--	-	-	-	---	-	-	-
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- 2 -

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Model	SPLFA75F-12
Item	Efficiency (by Input Voltage)
Object	

Temperature 25°C
Testing Circuitry Figure A

1.Graph

---□--- Load 50%
—△— Load 100%

The graph plots Efficiency [%] on the y-axis (ranging from 30 to 86 in increments of 8) against Input Voltage [V] on the x-axis (ranging from 50 to 300 in increments of 50). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show efficiency increasing slightly with input voltage. A slanted line is drawn across the graph, indicating the range of the rated input voltage, which is approximately from 85V to 280V.

Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
75	77.2	78.7
85	78.0	79.9
100	78.5	80.8
120	79.0	81.7
200	78.3	82.9
230	79.0	82.7
264	79.3	83.0
280	79.8	83.3

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

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	77.2	78.7
85	78.0	79.9
100	78.5	80.8
120	79.0	81.7
200	78.3	82.9
230	79.0	82.7
264	79.3	83.0
280	79.8	83.3
--	-	-

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Model SPLFA75F-12

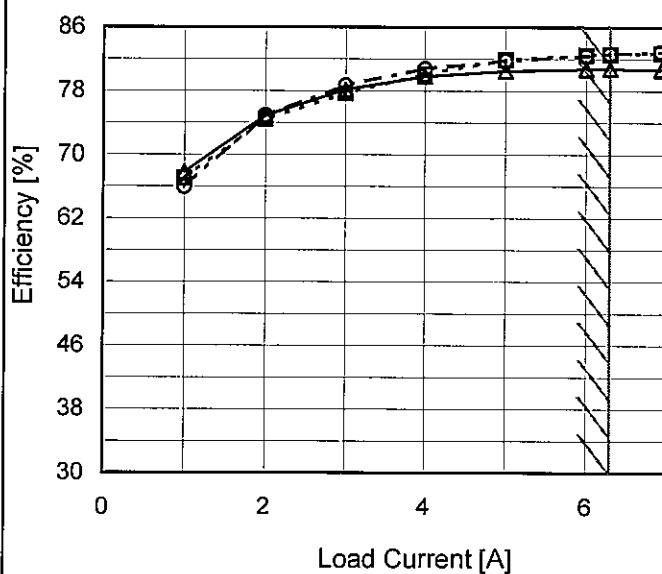
Item Efficiency (by Load Current)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 ---○--- Input Volt. 230V



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

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	-	-	-
1.00	67.8	67.0	65.9
2.00	74.9	74.4	74.9
3.00	78.2	77.7	78.7
4.00	79.8	80.1	80.8
5.00	80.5	81.9	81.8
6.00	80.7	82.5	82.4
6.30	80.8	82.6	82.6
6.93	80.7	82.8	82.9
--	-	-	-
--	-	-	-

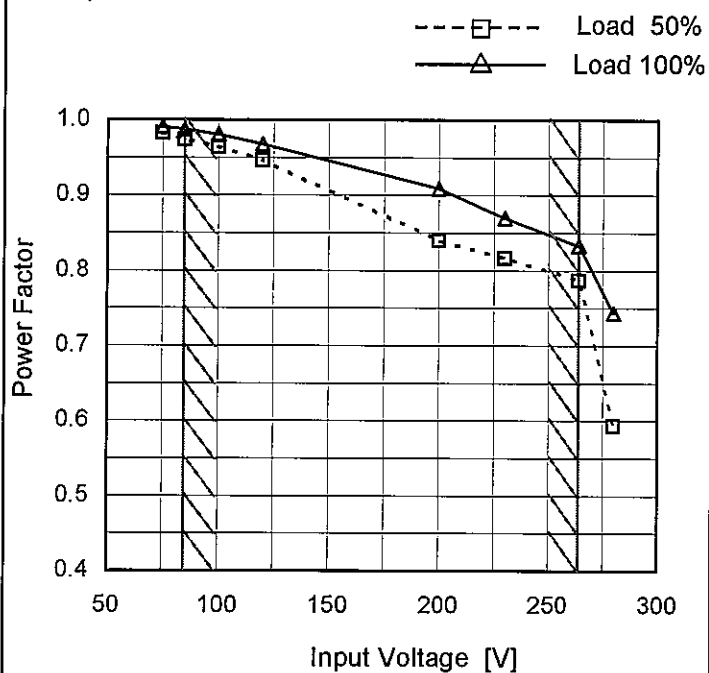
Model SPLFA75F-12

Item Power Factor (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]	Power Factor	
	Load 50%	Load 100%
75	0.982	0.991
85	0.974	0.987
100	0.964	0.980
120	0.947	0.968
200	0.840	0.909
230	0.817	0.870
264	0.787	0.833
280	0.593	0.743
--	-	-

Model		SPLFA75F-12	
Item		Power Factor (by Load Current)	
Object			

1.Graph

△

Input Volt.

100V

□

Input Volt.

200V

○

Input Volt.

230V

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0

2

4

6

Load Current [A]

△

□

○

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

2.Values

Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	0.471	0.500	0.431
1.00	0.913	0.690	0.691
2.00	0.947	0.804	0.787
3.00	0.962	0.836	0.813
4.00	0.971	0.866	0.833
5.00	0.975	0.898	0.852
6.00	0.979	0.908	0.865
6.30	0.980	0.910	0.869
6.93	0.981	0.913	0.879
--	-	-	-
--	-	-	-

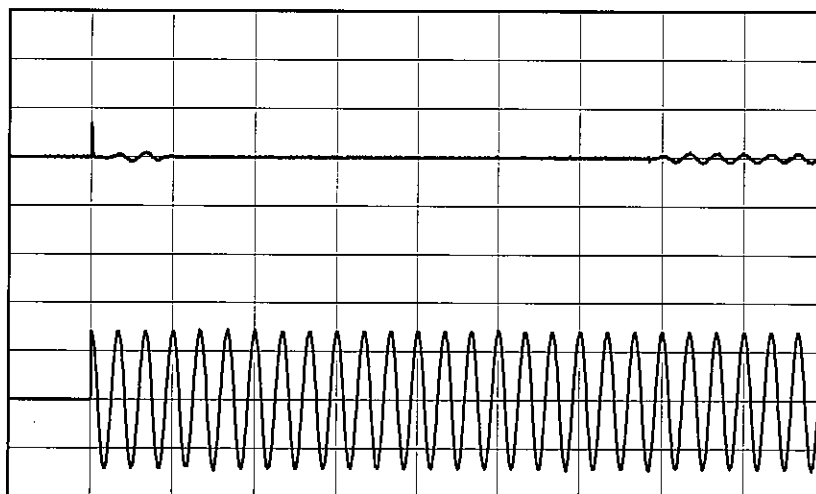
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Model	SPLFA75F-12
Item	Inrush Current
Object	_____

Temperature	25°C
Testing Circuitry	Figure A

Input
Current
[20A/div]

Input
Voltage
[100V/div]



Time

[50ms/div]

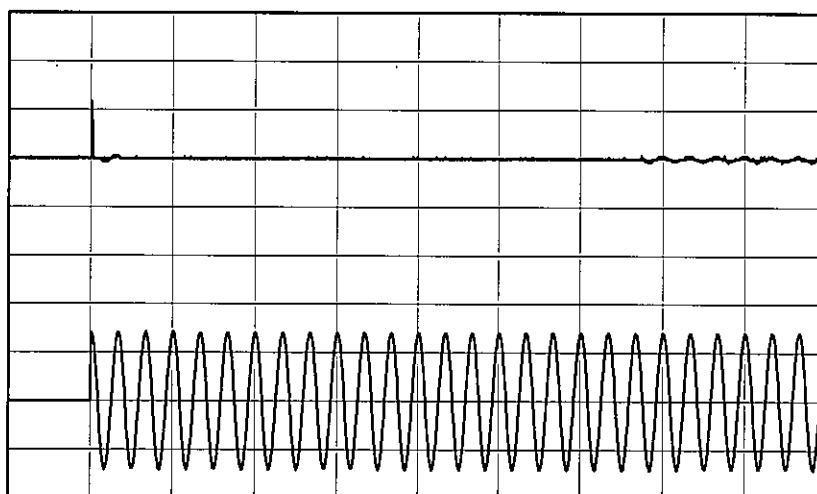
Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current :
13.7 A

Secondary inrush current :
2.3 A

Input
Current
[20A/div]

Input
Voltage
[200V/div]



Time

[50ms/div]

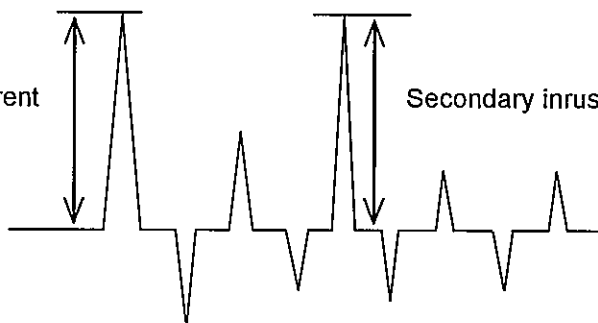
Input Voltage 200 V
Frequency 60 Hz
Load 100 %

Primary inrush current :
23.4 A

Secondary inrush current :
1.4 A

Primary inrush current

Secondary inrush current



Model		SPLFA75F-12	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object			

1.Results

Standards		Input Volt.			Note
		100 [V]	200 [V]	240 [V]	
DEN-AN	Both phases	0.14	0.25	0.31	Operation
	One of phases	0.21	0.46	0.57	Stand by
IEC60950-1	Both phases	0.15	0.29	0.36	Operation
	One of phases	0.22	0.45	0.56	Stand by

The value for "One of phases" is the reference value only.

2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

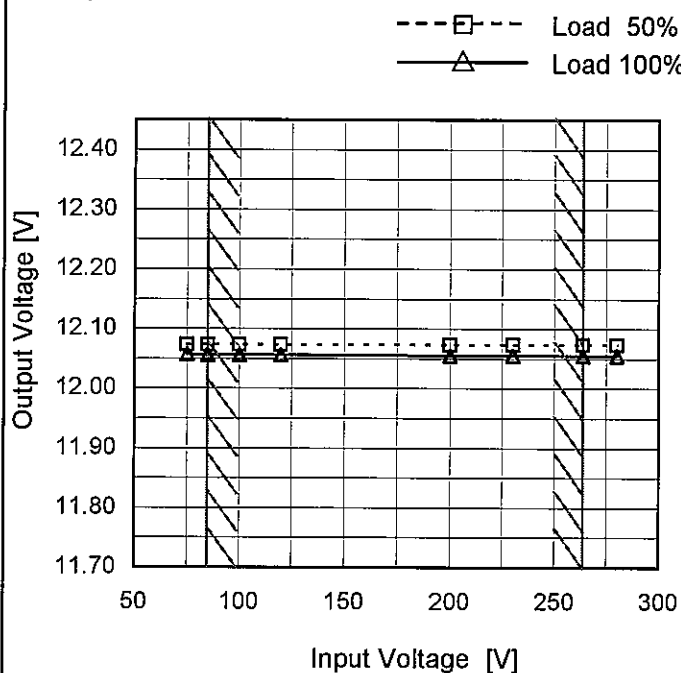
Model SPLFA75F-12

Item Line Regulation

Object +12V6.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	12.074	12.057
85	12.074	12.056
100	12.074	12.056
120	12.073	12.056
200	12.073	12.055
230	12.073	12.055
264	12.073	12.055
280	12.073	12.055
--	-	-

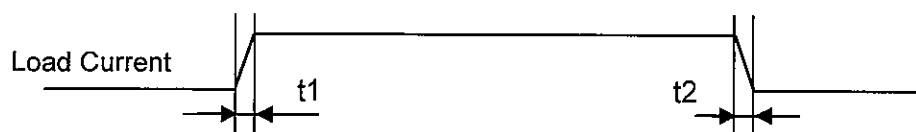
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<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div> <p>Output Voltage [V]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>12.096</td><td>12.096</td><td>12.096</td></tr><tr><td>1.00</td><td>12.086</td><td>12.086</td><td>12.085</td></tr><tr><td>2.00</td><td>12.079</td><td>12.079</td><td>12.079</td></tr><tr><td>3.00</td><td>12.074</td><td>12.074</td><td>12.074</td></tr><tr><td>4.00</td><td>12.069</td><td>12.069</td><td>12.069</td></tr><tr><td>5.00</td><td>12.063</td><td>12.063</td><td>12.062</td></tr><tr><td>6.00</td><td>12.057</td><td>12.057</td><td>12.057</td></tr><tr><td>6.30</td><td>12.056</td><td>12.056</td><td>12.056</td></tr><tr><td>6.93</td><td>12.054</td><td>12.054</td><td>12.054</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	12.096	12.096	12.096	1.00	12.086	12.086	12.085	2.00	12.079	12.079	12.079	3.00	12.074	12.074	12.074	4.00	12.069	12.069	12.069	5.00	12.063	12.063	12.062	6.00	12.057	12.057	12.057	6.30	12.056	12.056	12.056	6.93	12.054	12.054	12.054	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																						

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Model	SPLFA75F-12	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+12V6.3A		

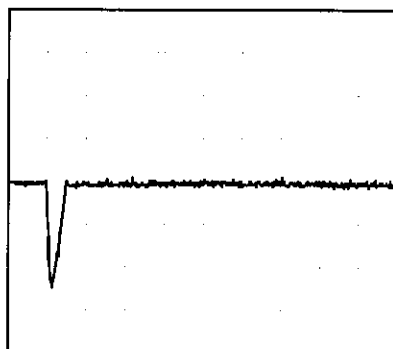
Input Volt. 100 V
Cycle 1000 ms

Response. $t_1=t_2=50\mu\text{s}$. Typ

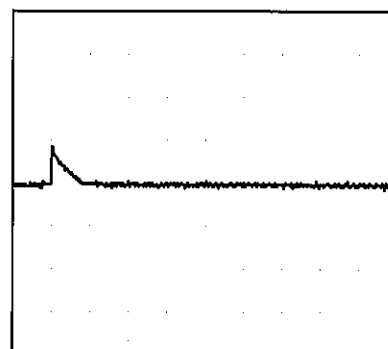


Min. Load (0A) \longleftrightarrow
Load 100% (6.3A)

200 mV/div



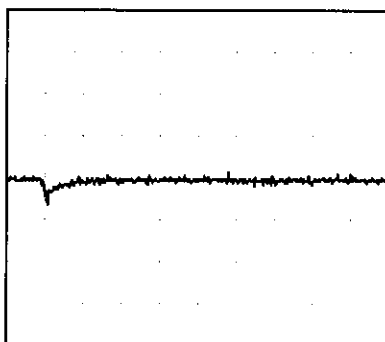
4 ms/div



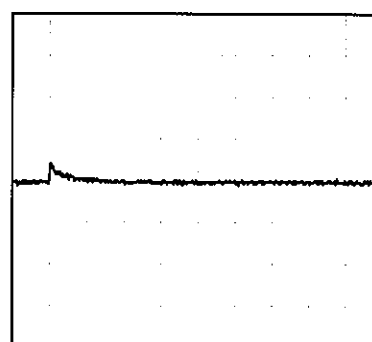
4 ms/div

Min. Load (0A) \longleftrightarrow
Load 50% (3.15A)

200 mV/div



4 ms/div

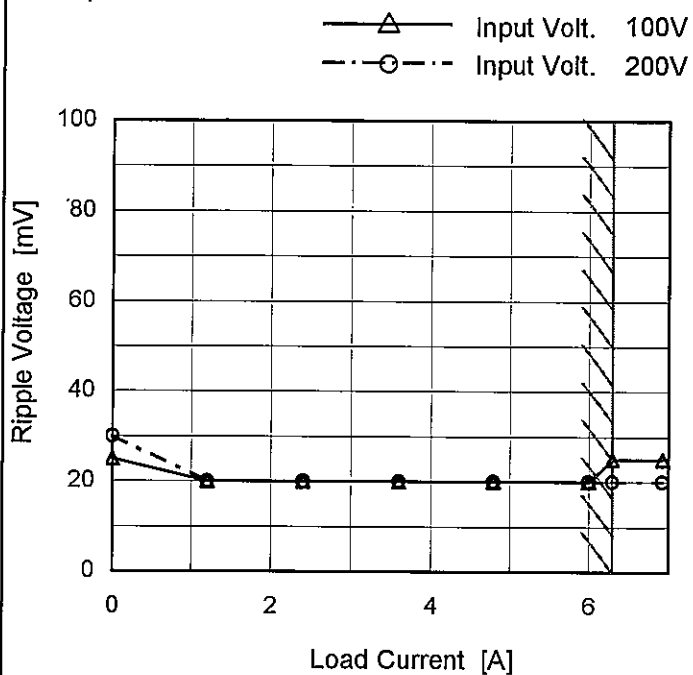


4 ms/div

Model	SPLFA75F-12
Item	Ripple Voltage (by Load Current)
Object	+12V6.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0.00	25	30
1.20	20	20
2.40	20	20
3.60	20	20
4.80	20	20
6.00	20	20
6.30	25	20
6.93	25	20
--	-	-
--	-	-
--	-	-

Measured by 20 MHz Oscilloscope.
 Ripple Voltage is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

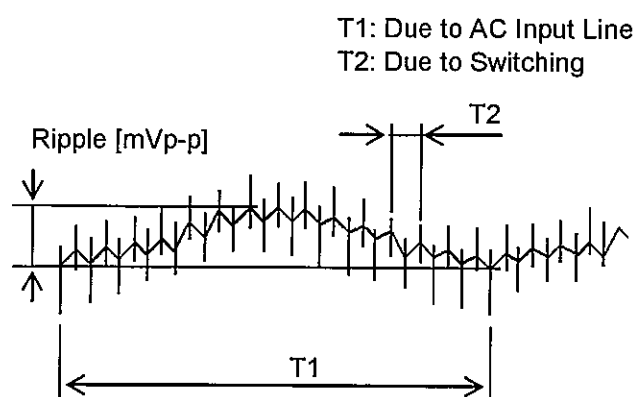


Fig. Complex Ripple Wave Form

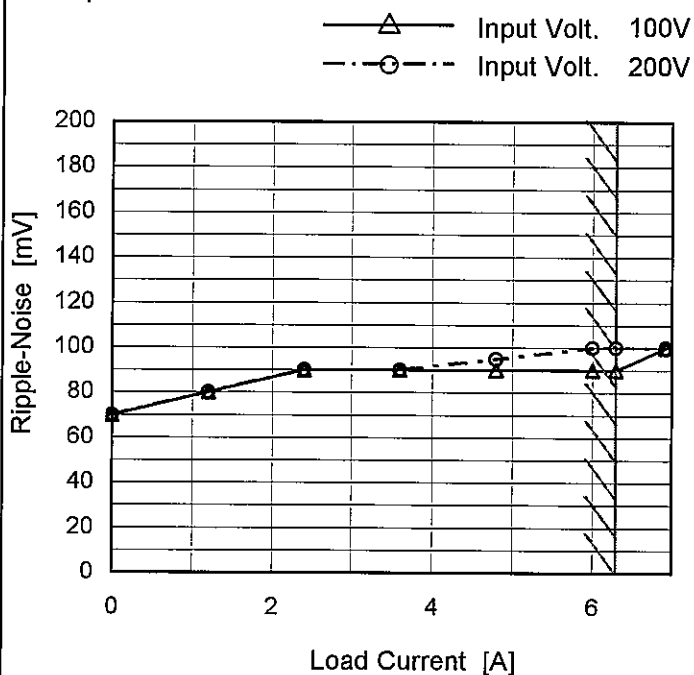
Model SPLFA75F-12

Item Ripple-Noise

Object +12V6.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Measured by 20 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. 100 [V]	Input Volt. 200 [V]
0.00	70	70
1.20	80	80
2.40	90	90
3.60	90	90
4.80	90	95
6.00	90	100
6.30	90	100
6.93	100	100
--	-	-
--	-	-
--	-	-

T1: Due to AC Input Line

T2: Due to Switching

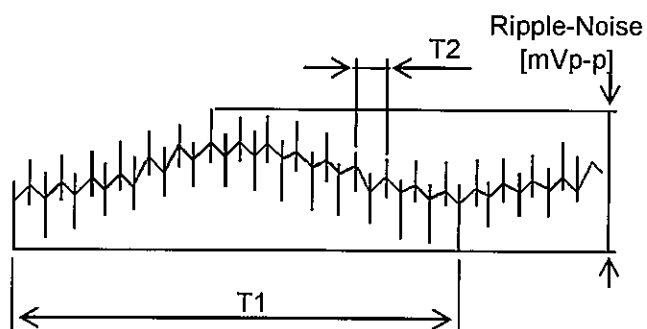


Fig. Complex Ripple Wave Form

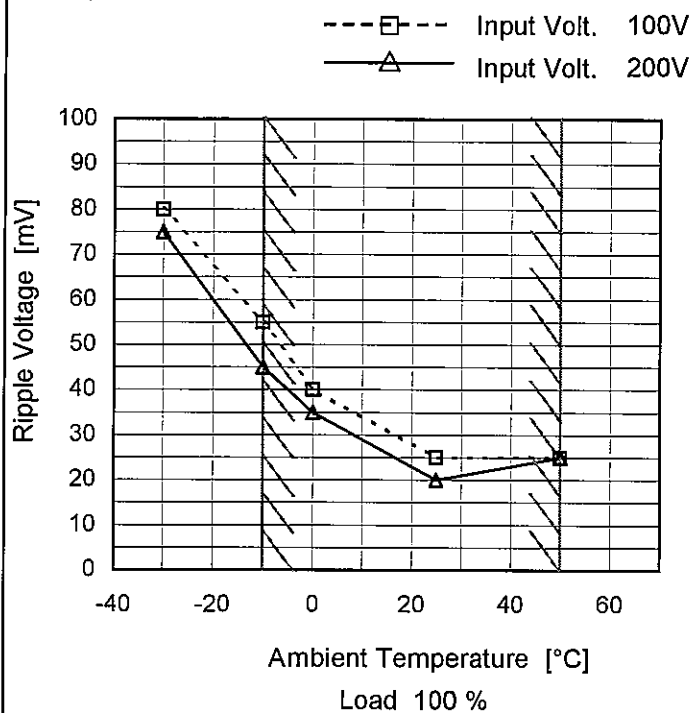
Model SPLFA75F-12

Item Ripple Voltage (by Ambient Temp.)

Object +12V6.3A

Testing Circuitry Figure A

1. Graph



Measured by 20 MHz Oscilloscope.

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

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-30	80	75
-10	55	45
0	40	35
25	25	20
50	25	25
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

Model SPLFA75F-12

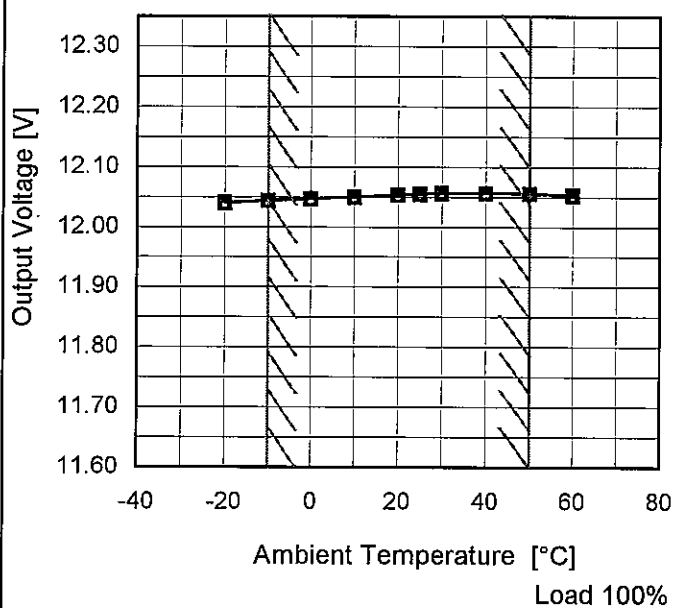
Item Ambient Temperature Drift

Object +12V6.3A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 ---○--- Input Volt. 230V



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

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
-20	12.040	12.040	12.040
-10	12.044	12.044	12.044
0	12.047	12.047	12.047
10	12.050	12.050	12.050
20	12.053	12.053	12.053
25	12.055	12.054	12.054
30	12.056	12.056	12.056
40	12.057	12.056	12.056
50	12.056	12.055	12.055
60	12.053	12.053	12.053
--	-	-	-

		Testing Circuitry Figure A
Model	SPLFA75F-12	
Item	Output Voltage Accuracy	
Object	+12V6.3A	

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 : -10 - 50°C

Input Voltage : 85 - 264V

Load Current : 0 - 6.3A

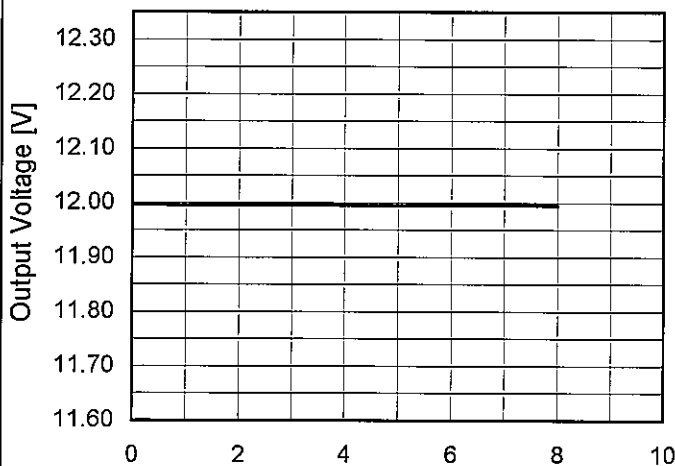
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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]	Ration [%]
Maximum Voltage	40	85	0	12.097	±27	±0.2
Minimum Voltage	-10	200	6.3	12.044		

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Model	SPLFA75F-12																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+12V6.3A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>11.998</td></tr><tr><td>0.5</td><td>11.996</td></tr><tr><td>1.0</td><td>11.996</td></tr><tr><td>2.0</td><td>11.996</td></tr><tr><td>3.0</td><td>11.995</td></tr><tr><td>4.0</td><td>11.995</td></tr><tr><td>5.0</td><td>11.995</td></tr><tr><td>6.0</td><td>11.995</td></tr><tr><td>7.0</td><td>11.995</td></tr><tr><td>8.0</td><td>11.995</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	11.998	0.5	11.996	1.0	11.996	2.0	11.996	3.0	11.995	4.0	11.995	5.0	11.995	6.0	11.995	7.0	11.995	8.0	11.995
Time since start [H]	Output Voltage [V]																								
0.0	11.998																								
0.5	11.996																								
1.0	11.996																								
2.0	11.996																								
3.0	11.995																								
4.0	11.995																								
5.0	11.995																								
6.0	11.995																								
7.0	11.995																								
8.0	11.995																								
* The characteristic of AC200V is equal.																									

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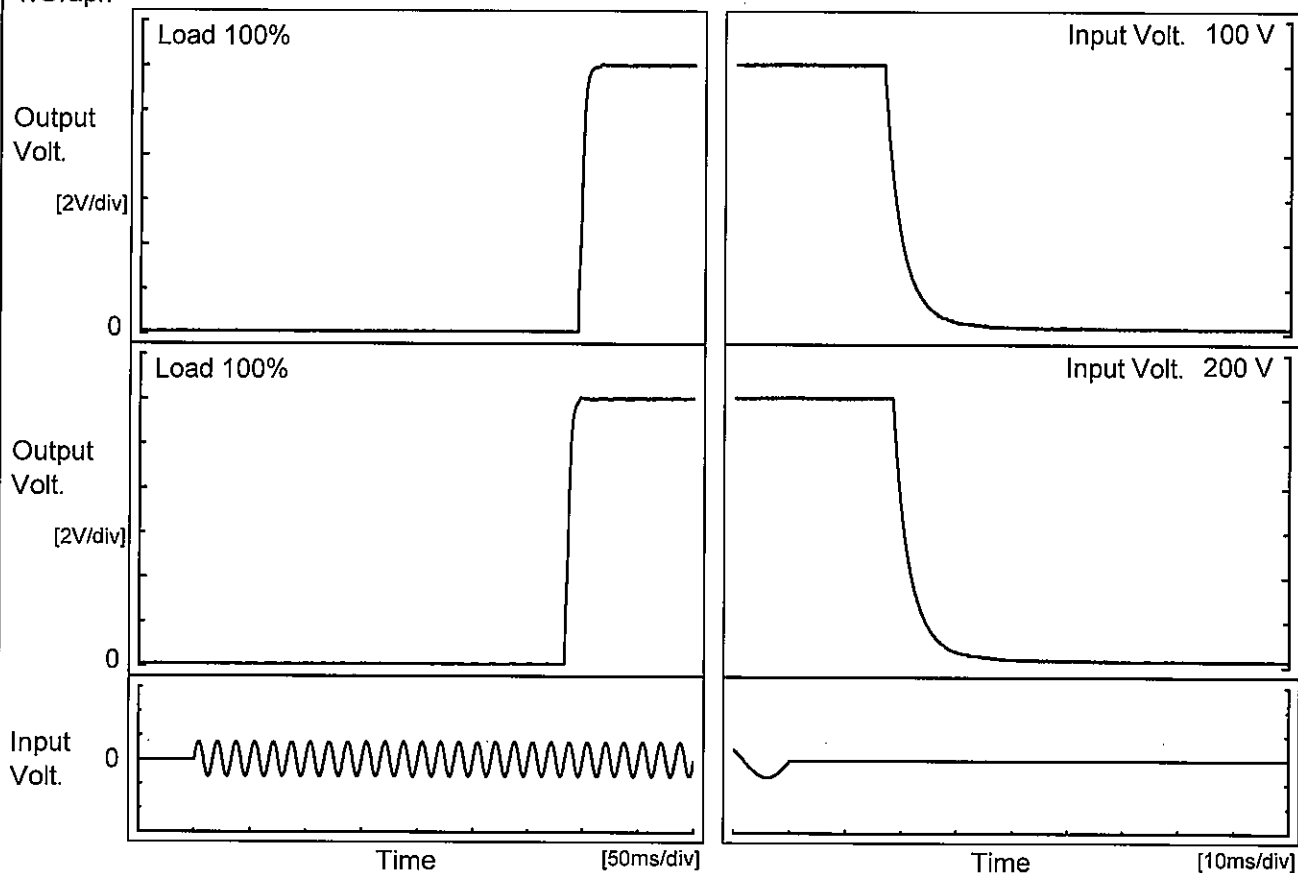
Model SPLFA75F-12

Item Rise and Fall Time

Object +12V6.3A

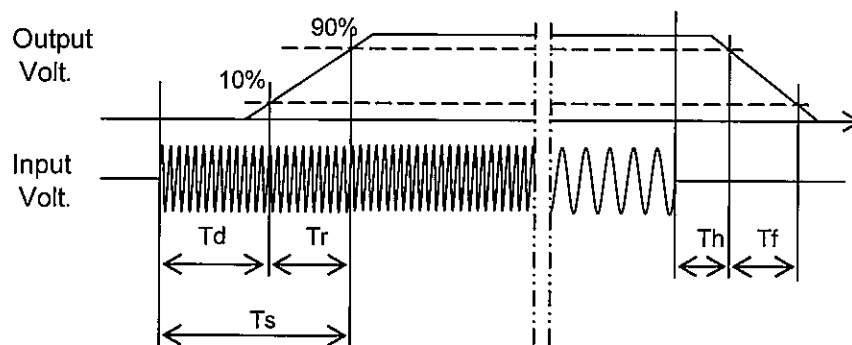
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		345.3	6.8	352.1	16.9	7.7
200 V		333.8	6.5	340.3	18.7	7.7



Model	SPLFA75F-12																																
Item	Hold-Up Time	Temperature	25°C																														
Object	+12V6.3A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>The graph shows Hold-Up Time [ms] on a logarithmic y-axis (1 to 1000) versus Input Voltage [V] on a linear x-axis (50 to 300). Two data series are plotted: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a relatively constant hold-up time across the input voltage range, with a slight increase at higher voltages. A slanted line indicates the range of the rated input voltage (approximately 80V to 280V).</p> <table border="1"><thead><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr></thead><tbody><tr><td>75</td><td>43</td><td>15</td></tr><tr><td>85</td><td>44</td><td>16</td></tr><tr><td>100</td><td>45</td><td>17</td></tr><tr><td>120</td><td>46</td><td>18</td></tr><tr><td>200</td><td>47</td><td>19</td></tr><tr><td>230</td><td>48</td><td>19</td></tr><tr><td>264</td><td>49</td><td>19</td></tr><tr><td>280</td><td>50</td><td>20</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	75	43	15	85	44	16	100	45	17	120	46	18	200	47	19	230	48	19	264	49	19	280	50	20	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
75	43	15																															
85	44	16																															
100	45	17																															
120	46	18																															
200	47	19																															
230	48	19																															
264	49	19																															
280	50	20																															
--	-	-																															
<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																	

- 19 -

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Model SPLFA75F-12

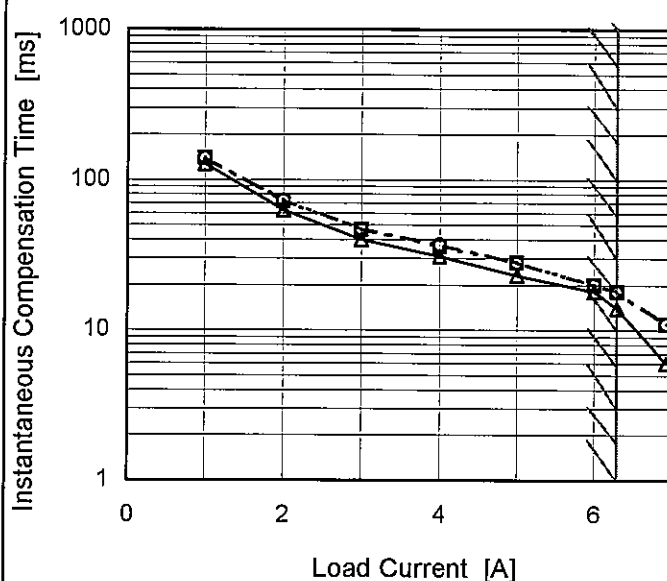
Item Instantaneous Interruption Compensation

Object +12V6.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 -·-○-·- Input Volt. 230V



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

2. Values

Load Current [A]	Time [ms]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	-	-	-
1.00	127	139	139
2.00	63	72	73
3.00	40	47	47
4.00	31	36	37
5.00	23	28	28
6.00	18	20	20
6.30	14	18	18
6.93	6	11	11
--	-	-	-
--	-	-	-

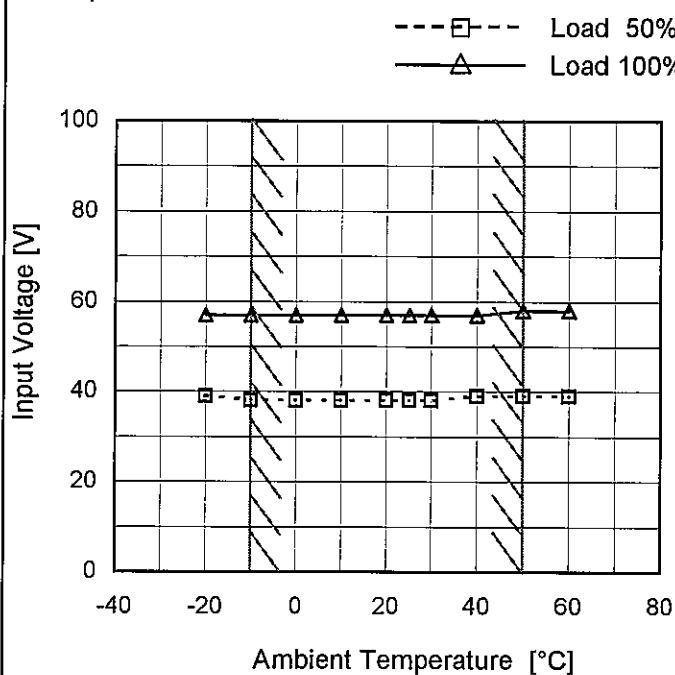
Model SPLFA75F-12

Item Minimum Input Voltage
for Regulated Output Voltage

Object +12V6.3A

Testing Circuitry Figure A

1. Graph



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

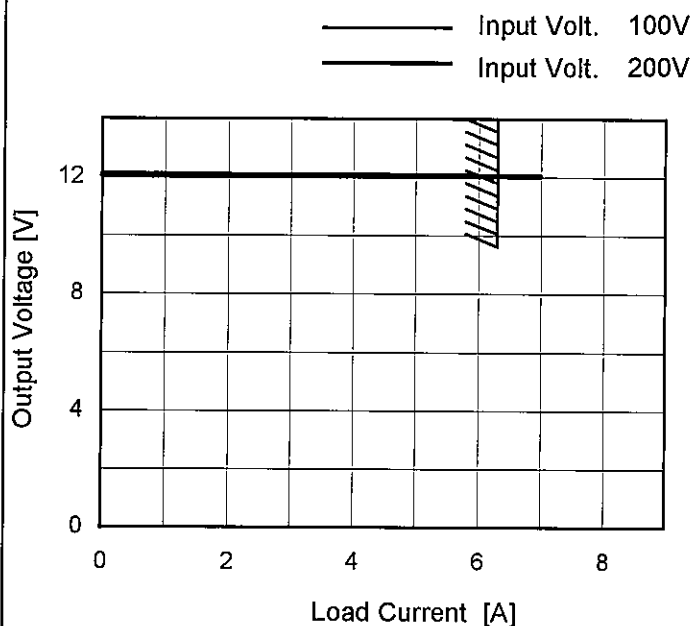
2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	39	57
-10	38	57
0	38	57
10	38	57
20	38	57
25	38	57
30	38	57
40	39	57
50	39	58
60	39	58
--	-	-

Model	SPLFA75F-12
Item	Overcurrent Protection
Object	+12V6.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

Intermittent operation occurs when the output voltage is from 11.9V to 0V.

2. Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 200[V]
12	7.13	6.98
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

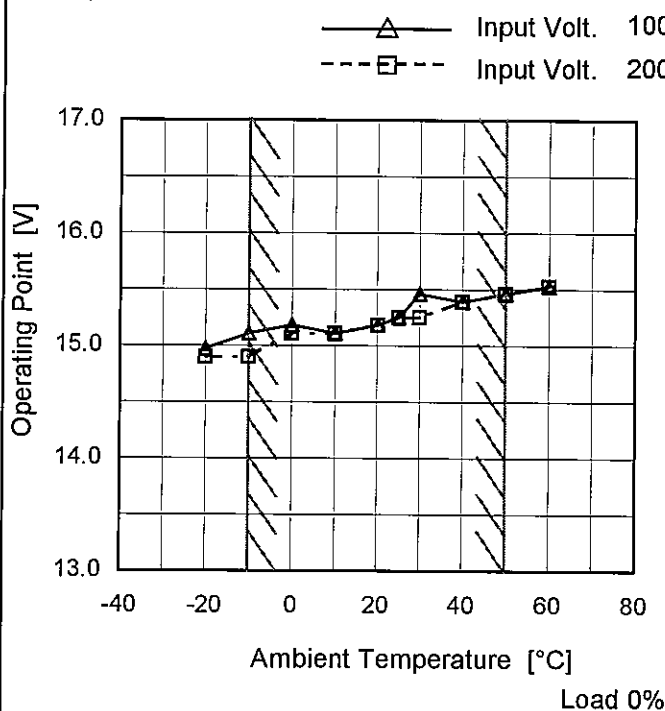
Model SPLFA75F-12

Item Overvoltage Protection

Object +12V6.3A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-20	14.97	14.90
-10	15.11	14.90
0	15.18	15.11
10	15.11	15.11
20	15.18	15.18
25	15.25	15.25
30	15.46	15.25
40	15.39	15.39
50	15.46	15.46
60	15.53	15.53
--	-	-

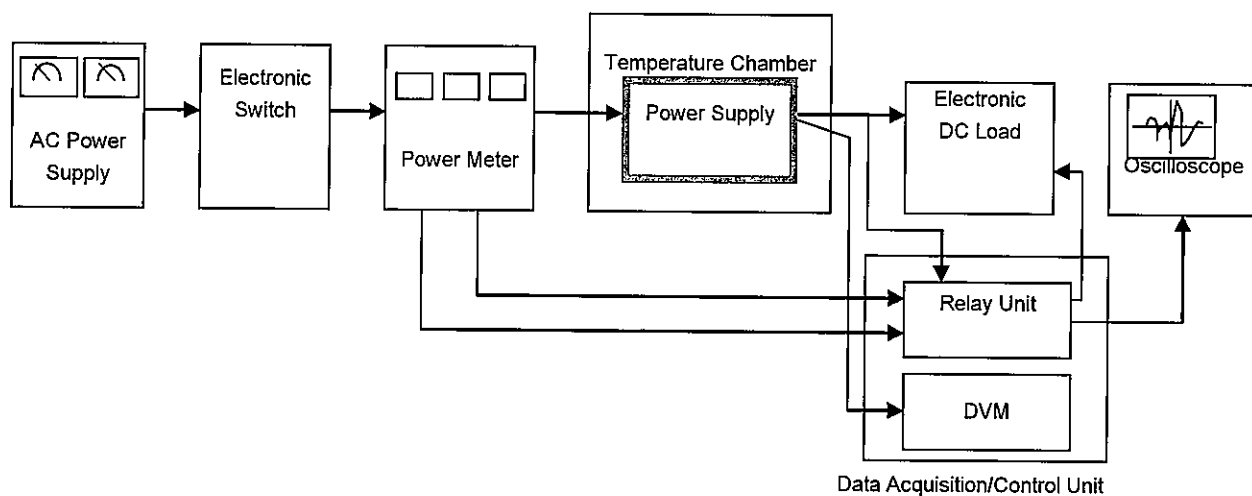


Figure A

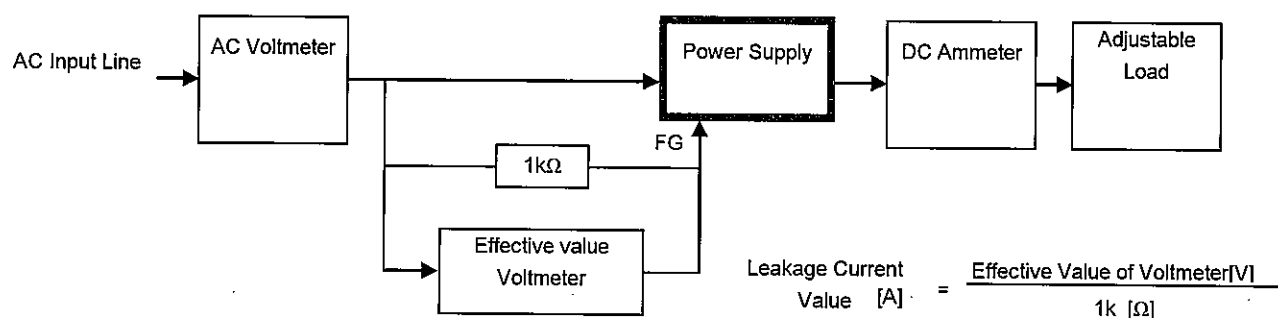


Figure B (DEN-AN)

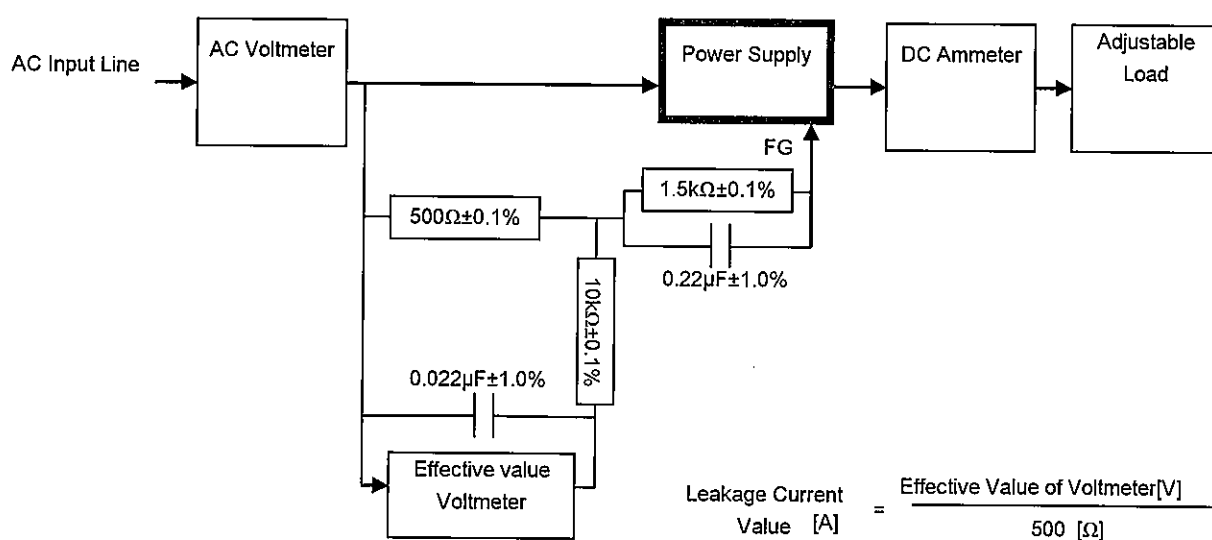


Figure B (IEC60950-1)