

TEST DATA OF SPLFA100F-12

Regulated DC Power Supply
October 19, 2011

Approved by : Takahiro Yoneda
Takahiro Yoneda Design Manager

Prepared by : Satoshi Kinoshita
Satoshi Kinoshita Design Engineer

COSEL CO.,LTD.

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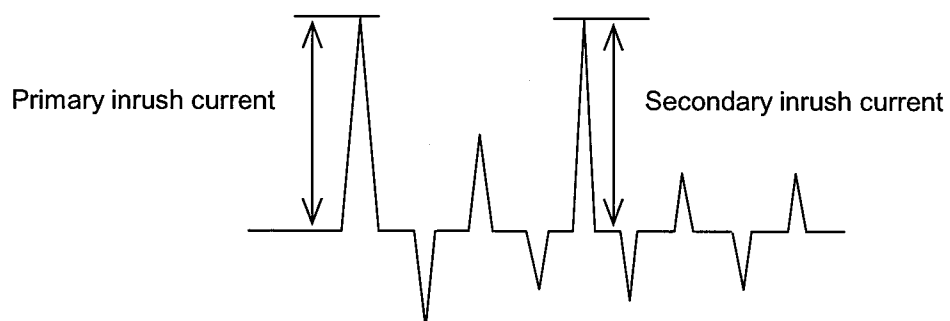
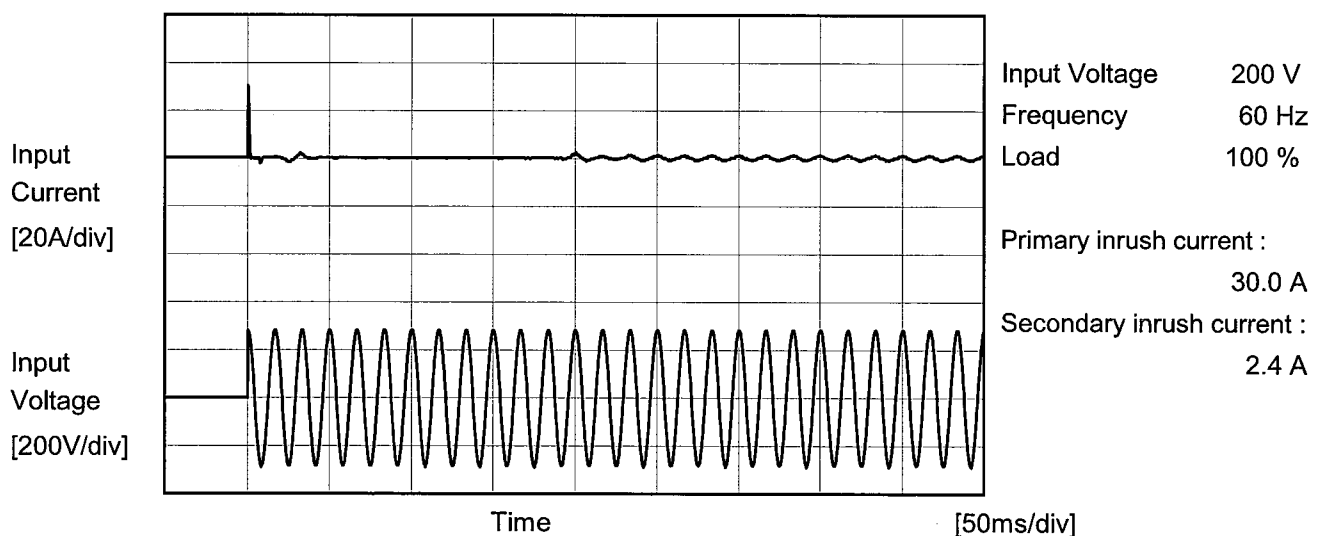
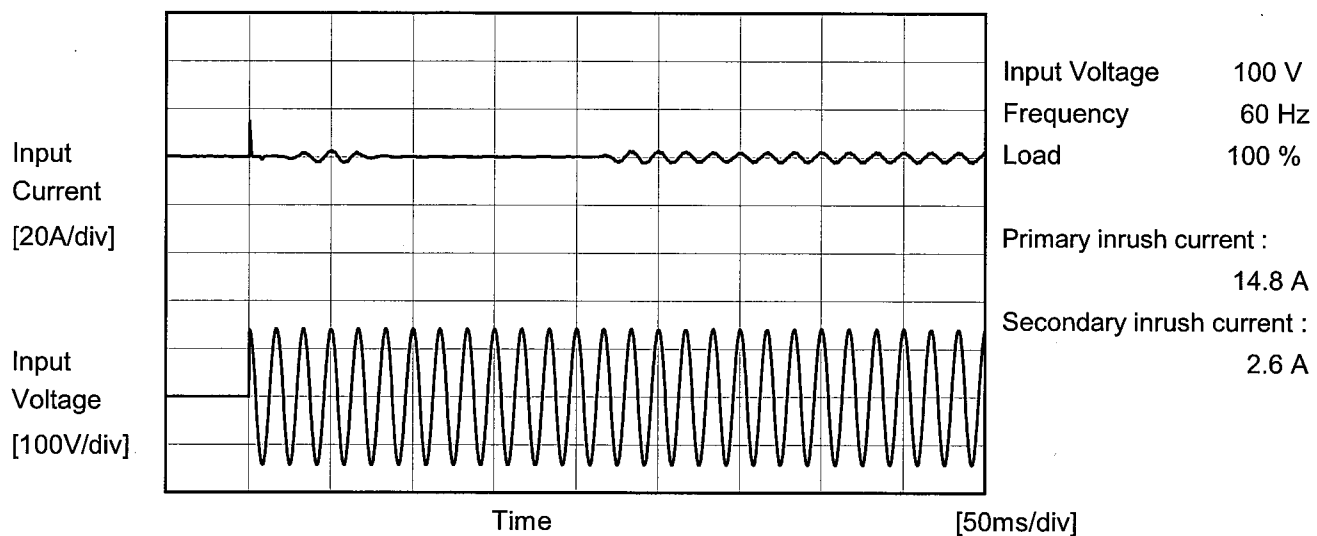
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Load Current [A]	Power Factor																																																							
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0.00	0.516	0.209	0.165																																																					
1.50	0.927	0.747	0.677																																																					
3.00	0.950	0.852	0.811																																																					
4.50	0.957	0.899	0.867																																																					
6.00	0.964	0.921	0.901																																																					
7.50	0.968	0.934	0.919																																																					
8.50	0.971	0.940	0.928																																																					
9.35	0.974	0.942	0.934																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								

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BC-10623

COSEL

Model	SPLFA100F-12	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			



COSEL

		Temperature 25°C Testing Circuitry Figure B
Model	SPLFA100F-12	
Item	Leakage Current	
Object		

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	240 [V]	
DEN-AN	Both phases	0.27	0.34	0.37	Operation
	One of phases	0.25	0.55	0.67	Stand by
IEC60950-1	Both phases	0.13	0.28	0.33	Operation
	One of phases	0.25	0.52	0.64	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.

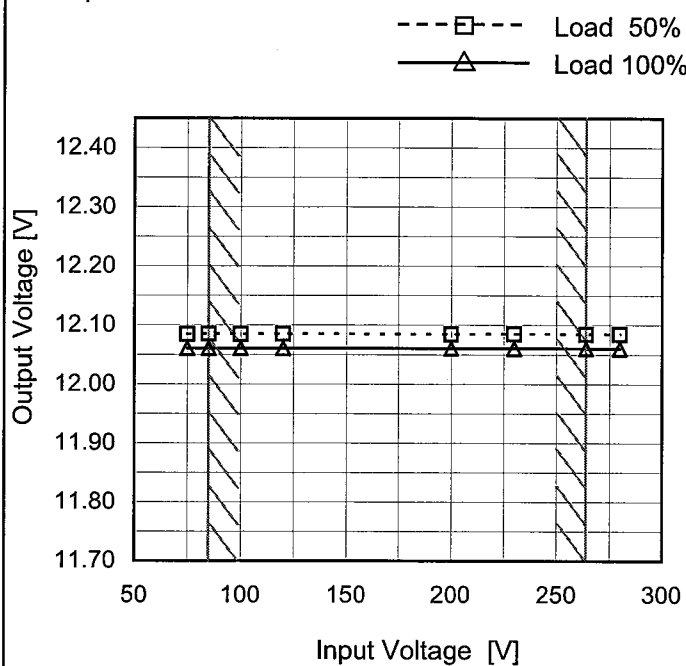
Model SPLFA100F-12

Item Line Regulation

Object +12V8.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



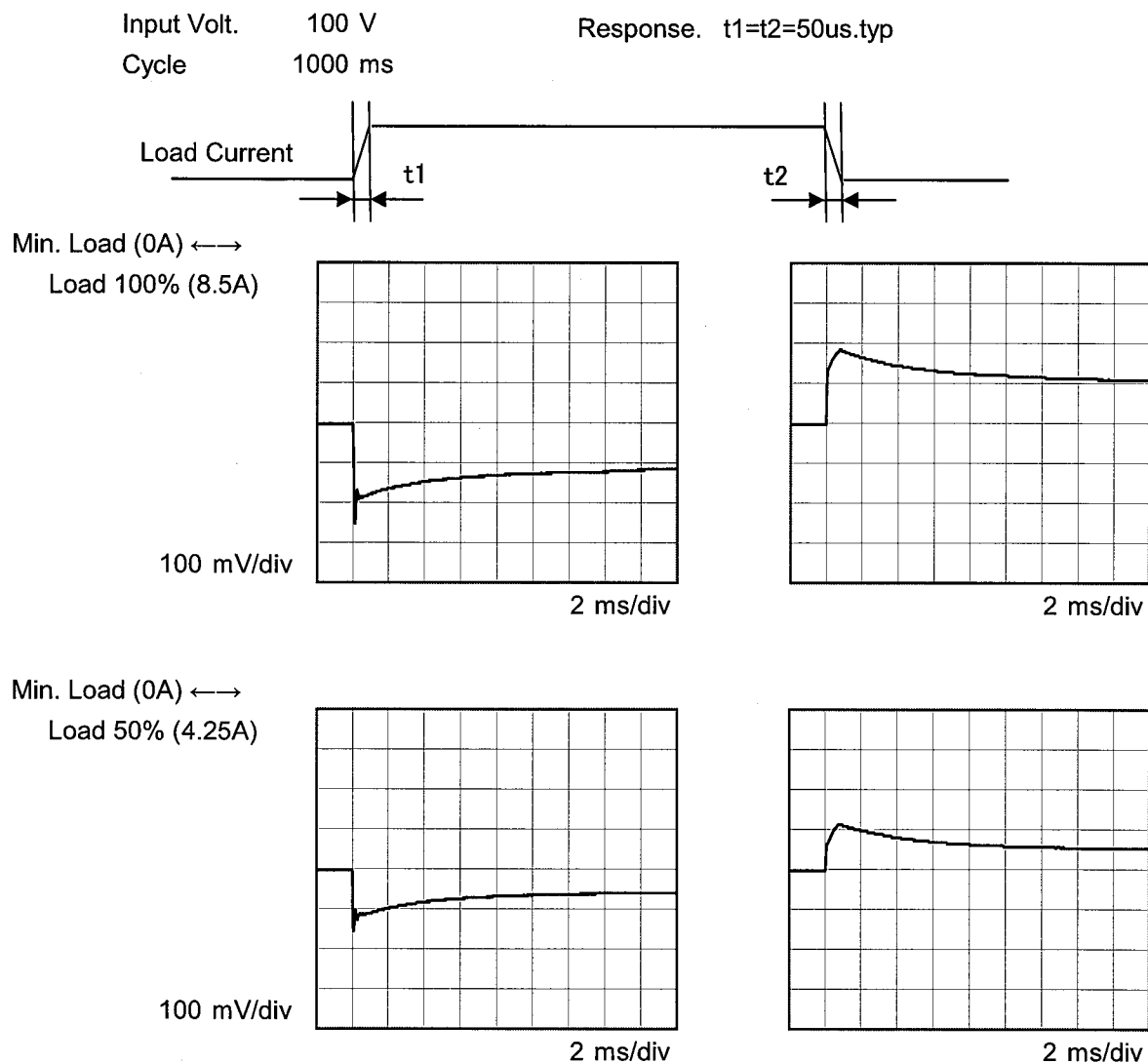
2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	12.085	12.061
85	12.085	12.061
100	12.085	12.061
120	12.085	12.061
200	12.085	12.061
230	12.085	12.061
264	12.085	12.061
280	12.085	12.060
--	-	-

COSEL

Model	SPLFA100F-12																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+12V8.5A	Testing Circuitry	Figure A																																																			
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>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>200V</div><div>230V</div></div></div><div><p>Output Voltage [V]</p><p>Load Current [A]</p></div><p>Note: Slanted line shows the range of the rated load current.</p></div>		<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>12.111</td><td>12.111</td><td>12.111</td></tr><tr><td>1.50</td><td>12.102</td><td>12.102</td><td>12.102</td></tr><tr><td>3.00</td><td>12.093</td><td>12.093</td><td>12.093</td></tr><tr><td>4.50</td><td>12.085</td><td>12.085</td><td>12.085</td></tr><tr><td>6.00</td><td>12.077</td><td>12.076</td><td>12.076</td></tr><tr><td>7.50</td><td>12.068</td><td>12.068</td><td>12.067</td></tr><tr><td>8.50</td><td>12.062</td><td>12.062</td><td>12.062</td></tr><tr><td>9.35</td><td>12.058</td><td>12.057</td><td>12.056</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>		Load Current [A]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	12.111	12.111	12.111	1.50	12.102	12.102	12.102	3.00	12.093	12.093	12.093	4.50	12.085	12.085	12.085	6.00	12.077	12.076	12.076	7.50	12.068	12.068	12.067	8.50	12.062	12.062	12.062	9.35	12.058	12.057	12.056	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.00	12.111	12.111	12.111																																																			
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6.00	12.077	12.076	12.076																																																			
7.50	12.068	12.068	12.067																																																			
8.50	12.062	12.062	12.062																																																			
9.35	12.058	12.057	12.056																																																			
--	-	-	-																																																			
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Model	SPLFA100F-12	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+12V8.5A		



COSEL

Model		SPLFA100F-12		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																							
Object		+12V8.5A																																									
1.Graph				2.Values																																							
<div><div><div>—△— Input Volt. 100V</div><div>-·-○-·- Input Volt. 200V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 200 [V]</th></tr><tr><td>0.00</td><td>20</td><td>20</td></tr><tr><td>1.50</td><td>25</td><td>25</td></tr><tr><td>3.00</td><td>30</td><td>30</td></tr><tr><td>4.50</td><td>35</td><td>35</td></tr><tr><td>6.00</td><td>35</td><td>35</td></tr><tr><td>7.50</td><td>40</td><td>40</td></tr><tr><td>8.50</td><td>45</td><td>45</td></tr><tr><td>9.35</td><td>45</td><td>45</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. 100 [V]	Input Volt. 200 [V]	0.00	20	20	1.50	25	25	3.00	30	30	4.50	35	35	6.00	35	35	7.50	40	40	8.50	45	45	9.35	45	45	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																										
	Input Volt. 100 [V]	Input Volt. 200 [V]																																									
0.00	20	20																																									
1.50	25	25																																									
3.00	30	30																																									
4.50	35	35																																									
6.00	35	35																																									
7.50	40	40																																									
8.50	45	45																																									
9.35	45	45																																									
--	-	-																																									
--	-	-																																									
--	-	-																																									
<div>Measured by 20 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>T1: Due to AC Input Line</div><div>T2: Due to Switching</div><div>Ripple [mVp-p]</div><div>T1</div><div>T2</div></div>																																											
Fig. Complex Ripple Wave Form																																											

Model		SPLFA100F-12	
Item		Ripple-Noise	
Object		+12V8.5A	
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		SPLFA100F-12	
Item		Ripple Voltage (by Ambient Temp.)	
Object		+12V8.5A	
1.Graph		2.Values	
<div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Input Volt. 100V</div></div><div><div><div>—</div><div>△</div><div>—</div></div><div>Input Volt. 200V</div></div></div><div><div><div><div><div>200</div><div>180</div><div>160</div><div>140</div><div>120</div><div>100</div><div>80</div><div>60</div><div>40</div><div>20</div><div>0</div></div><div><div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div><div>-10</div><div>-20</div><div>-30</div><div>-40</div></div><div><div><div>Ambient Temperature [°C]</div><div>Load 100 %</div></div></div></div><div><div><div><div><div>75</div><div>70</div><div>55</div><div>45</div><div>40</div><div>35</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div><div>-</div></div><div><div><div>-30</div><div>-10</div><div>0</div><div>25</div><div>40</div><div>50</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div></div><div><div><div>Input Volt. 100 [V]</div><div>Input Volt. 200 [V]</div></div></div></div></div></div></div></div></div></div></div>			
<p>Measured by 20 MHz Oscilloscope.</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>			

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

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
-20	12.045	12.046	12.052
-10	12.054	12.054	12.055
0	12.057	12.057	12.058
10	12.060	12.060	12.061
20	12.063	12.063	12.064
25	12.066	12.066	12.067
30	12.067	12.067	12.067
40	12.067	12.067	12.067
50	12.065	12.065	12.065
60	12.062	12.062	12.061
--	-	-	-



		Testing Circuitry Figure A
Model	SPLFA100F-12	
Item	Output Voltage Accuracy	
Object	+12V8.5A	

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 - 8.5A

* 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	40	200	0	12.117	±32	±0.3
Minimum Voltage	-10	85	8.5	12.054		

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Model		SPLFA100F-12	
Item		Time Lapse Drift	
Object		+12V8.5A	

1.Graph

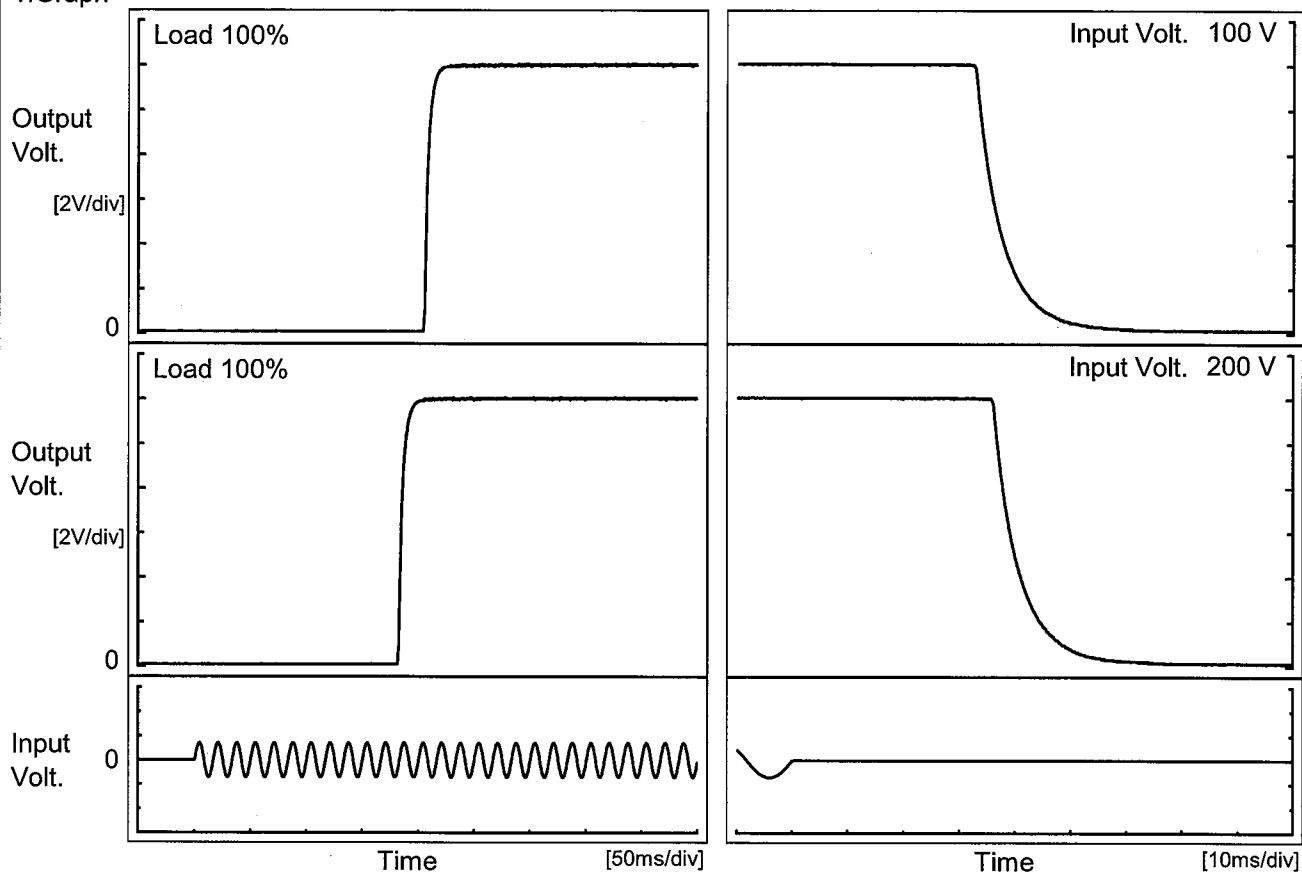
Output Voltage [V]

</

COSEL

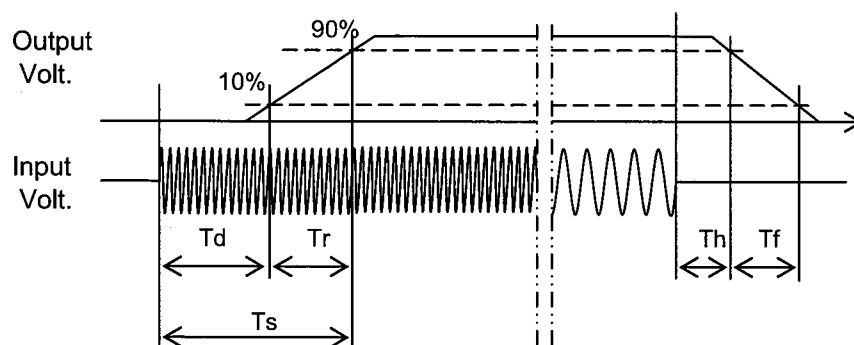
Model	SPLFA100F-12	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V8.5A		

1.Graph



2.Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	205.8	7.8	213.6	33.3	10.6
200 V	183.3	8.0	191.3	36.5	10.6



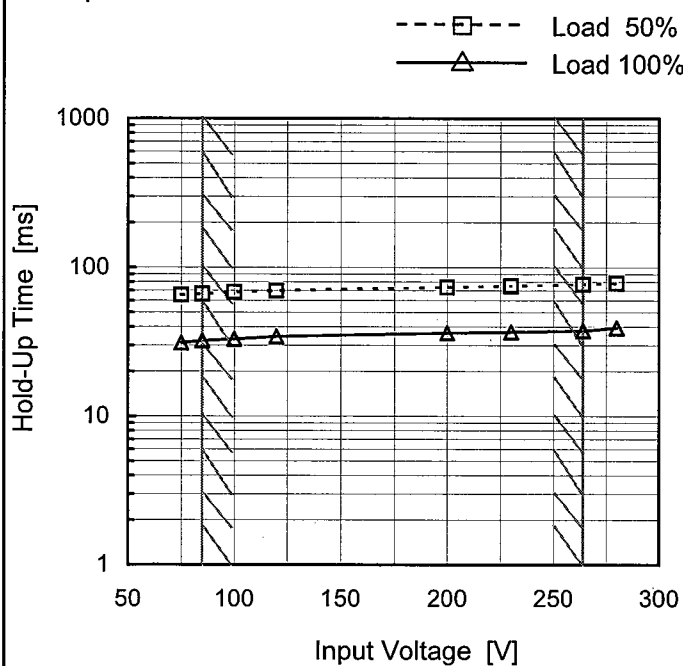
Model SPLFA100F-12

Item Hold-Up Time

Object +12V8.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

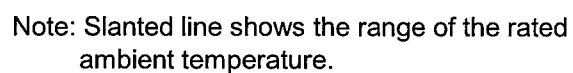
2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
75	65	31
85	66	32
100	68	33
120	70	34
200	74	36
230	75	37
264	77	38
280	79	39
--	-	-

Model	SPLFA100F-12																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+12V8.5A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div> <div>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div> <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">Time [ms]</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>-</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>172</td><td>197</td><td>198</td></tr><tr><td>3.00</td><td>89</td><td>105</td><td>106</td></tr><tr><td>4.50</td><td>61</td><td>70</td><td>72</td></tr><tr><td>6.00</td><td>46</td><td>53</td><td>54</td></tr><tr><td>7.50</td><td>37</td><td>39</td><td>40</td></tr><tr><td>8.50</td><td>30</td><td>37</td><td>38</td></tr><tr><td>9.35</td><td>27</td><td>31</td><td>31</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>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	1.50	172	197	198	3.00	89	105	106	4.50	61	70	72	6.00	46	53	54	7.50	37	39	40	8.50	30	37	38	9.35	27	31	31	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
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Testing Circuitry Figure A

2.Values



Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	47	60
-10	47	60
0	47	60
10	47	60
20	47	60
25	47	60
30	47	60
40	47	60
50	47	60
60	47	60
--	-	-

Model	SPLFA100F-12																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+12V8.5A	Testing Circuitry	Figure A																																									
1.Graph		2.Values																																										
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 200V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th></tr><tr><td>11.4</td><td>10.89</td><td>10.87</td></tr><tr><td>10.8</td><td>10.93</td><td>10.90</td></tr><tr><td>9.6</td><td>11.01</td><td>10.97</td></tr><tr><td>8.4</td><td>11.08</td><td>11.02</td></tr><tr><td>7.2</td><td>11.10</td><td>11.07</td></tr><tr><td>6.0</td><td>11.24</td><td>11.23</td></tr><tr><td>4.8</td><td>11.24</td><td>11.20</td></tr><tr><td>3.6</td><td>11.36</td><td>11.40</td></tr><tr><td>2.4</td><td>11.29</td><td>11.35</td></tr><tr><td>1.2</td><td>11.29</td><td>11.30</td></tr><tr><td>0.0</td><td>10.98</td><td>11.23</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 200[V]	11.4	10.89	10.87	10.8	10.93	10.90	9.6	11.01	10.97	8.4	11.08	11.02	7.2	11.10	11.07	6.0	11.24	11.23	4.8	11.24	11.20	3.6	11.36	11.40	2.4	11.29	11.35	1.2	11.29	11.30	0.0	10.98	11.23	--	-	-
Output Voltage [V]	Load Current [A]																																											
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Model	SPLFA100F-12																																								
Item	Overvoltage Protection	Testing Circuitry Figure A																																							
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<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div></div> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Operating Point [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th></tr><tr><td>-20</td><td>14.96</td><td>14.96</td></tr><tr><td>-10</td><td>15.03</td><td>15.03</td></tr><tr><td>0</td><td>15.17</td><td>15.10</td></tr><tr><td>10</td><td>15.24</td><td>15.24</td></tr><tr><td>20</td><td>15.38</td><td>15.31</td></tr><tr><td>25</td><td>15.45</td><td>15.38</td></tr><tr><td>30</td><td>15.45</td><td>15.45</td></tr><tr><td>40</td><td>15.59</td><td>15.52</td></tr><tr><td>50</td><td>15.66</td><td>15.66</td></tr><tr><td>60</td><td>15.80</td><td>15.73</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]		Input Volt. 100[V]	Input Volt. 200[V]	-20	14.96	14.96	-10	15.03	15.03	0	15.17	15.10	10	15.24	15.24	20	15.38	15.31	25	15.45	15.38	30	15.45	15.45	40	15.59	15.52	50	15.66	15.66	60	15.80	15.73	--	-	-
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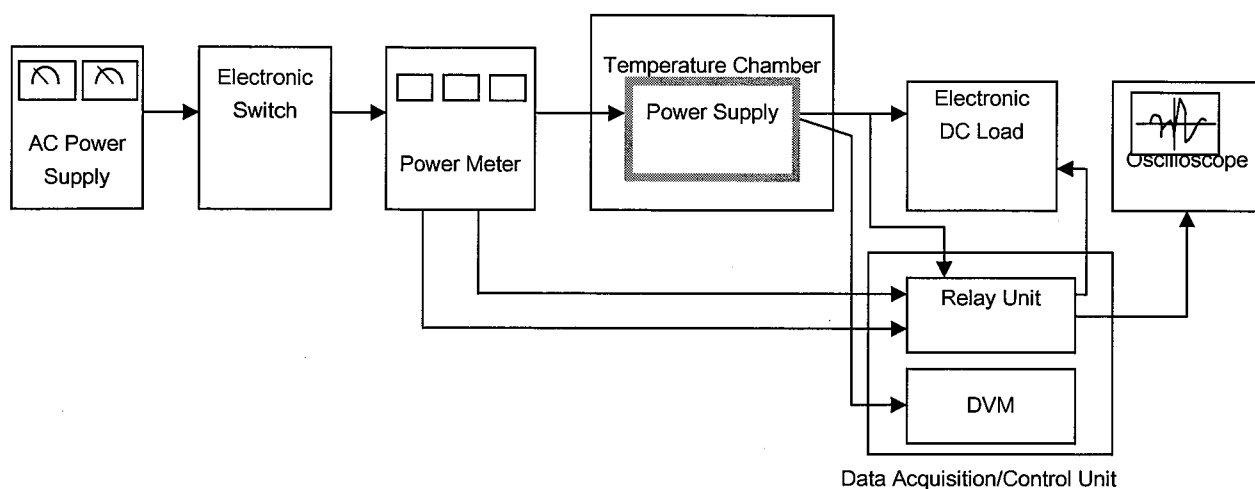


Figure A

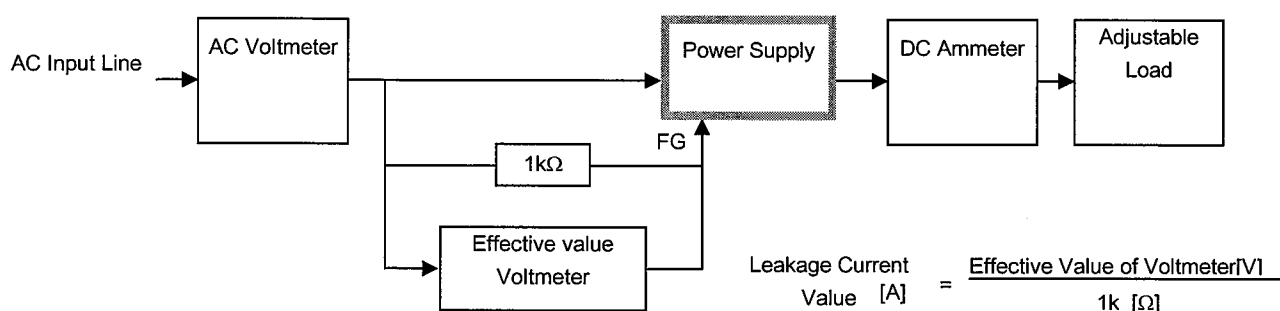


Figure B (DEN-AN)

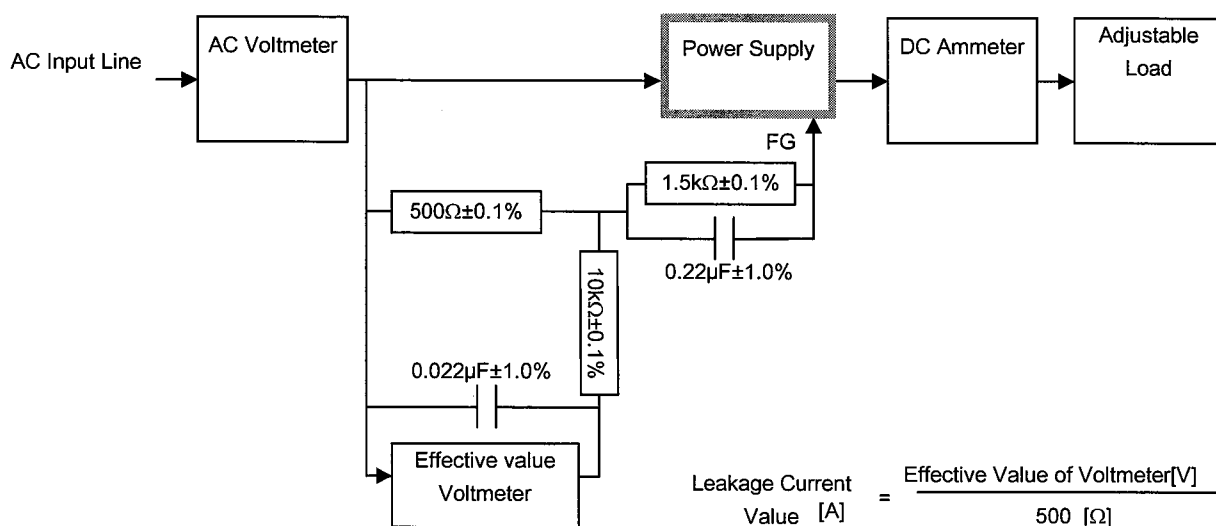


Figure B (IEC60950-1)

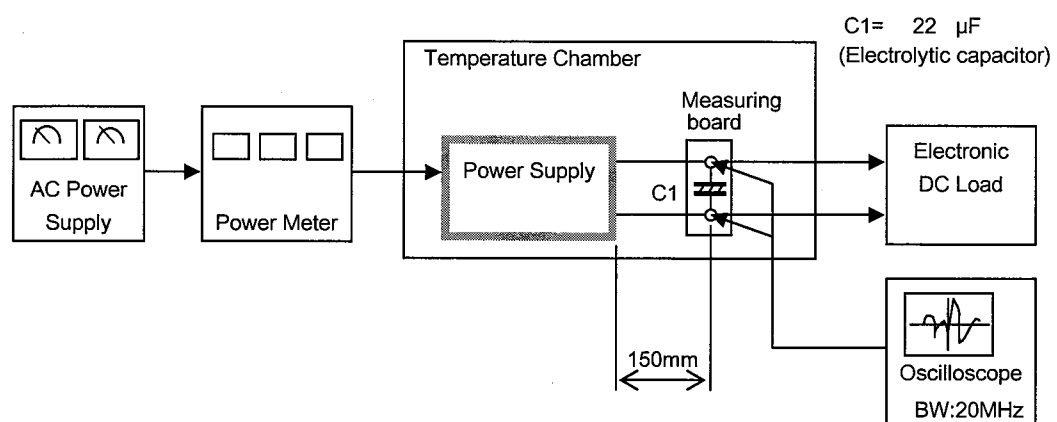


Figure C