

# TEST DATA OF SPLFA150F-12

Regulated DC Power Supply  
October 19, 2011

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Satoshi Kinoshita Design Engineer

**COSEL CO.,LTD.**

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Model	SPLFA150F-12																																																						
Item	Input Current (by Load Current)		Temperature	25°C																																																			
Object			Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																					
<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> <p>Input Current [A]</p> <p>Load Current [A]</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>0.094</td><td>0.117</td><td>0.132</td></tr><tr><td>2.00</td><td>0.373</td><td>0.233</td><td>0.225</td></tr><tr><td>4.00</td><td>0.650</td><td>0.361</td><td>0.334</td></tr><tr><td>6.00</td><td>0.927</td><td>0.492</td><td>0.447</td></tr><tr><td>8.00</td><td>1.209</td><td>0.627</td><td>0.564</td></tr><tr><td>10.00</td><td>1.494</td><td>0.763</td><td>0.682</td></tr><tr><td>12.00</td><td>1.784</td><td>0.904</td><td>0.802</td></tr><tr><td>12.50</td><td>1.856</td><td>0.938</td><td>0.833</td></tr><tr><td>13.75</td><td>2.044</td><td>1.025</td><td>0.909</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	0.094	0.117	0.132	2.00	0.373	0.233	0.225	4.00	0.650	0.361	0.334	6.00	0.927	0.492	0.447	8.00	1.209	0.627	0.564	10.00	1.494	0.763	0.682	12.00	1.784	0.904	0.802	12.50	1.856	0.938	0.833	13.75	2.044	1.025	0.909	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																							

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Object					
1.Graph				2.Values	
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Model	SPLFA150F-12																																
Item	Power Factor (by Input Voltage)	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object																																	
1.Graph		2.Values																															
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>75</td><td>0.984</td><td>0.993</td></tr><tr><td>85</td><td>0.980</td><td>0.992</td></tr><tr><td>100</td><td>0.972</td><td>0.988</td></tr><tr><td>120</td><td>0.962</td><td>0.983</td></tr><tr><td>200</td><td>0.899</td><td>0.947</td></tr><tr><td>230</td><td>0.860</td><td>0.924</td></tr><tr><td>264</td><td>0.807</td><td>0.888</td></tr><tr><td>280</td><td>0.775</td><td>0.863</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Load 50%	Load 100%	75	0.984	0.993	85	0.980	0.992	100	0.972	0.988	120	0.962	0.983	200	0.899	0.947	230	0.860	0.924	264	0.807	0.888	280	0.775	0.863	--	-	-		
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Model		SPLFA150F-12		Temperature 25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry Figure A																																																				
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6.00	0.971	0.894	0.854																																																					
8.00	0.980	0.918	0.887																																																					
10.00	0.985	0.936	0.908																																																					
12.00	0.987	0.945	0.922																																																					
12.50	0.988	0.947	0.924																																																					
13.75	0.990	0.952	0.930																																																					
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Note: Slanted line shows the range of the rated load current.																																																								

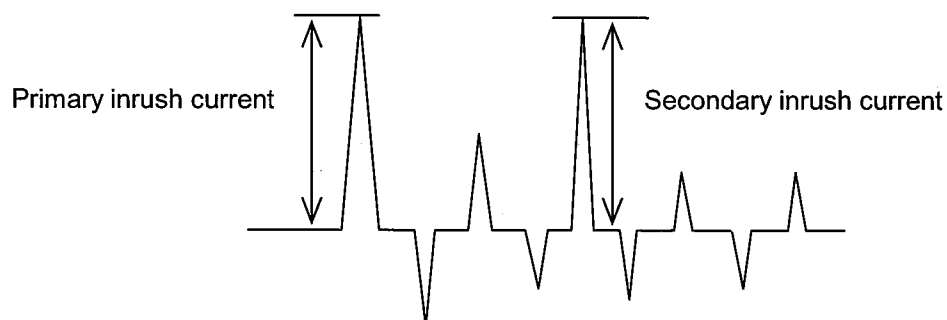
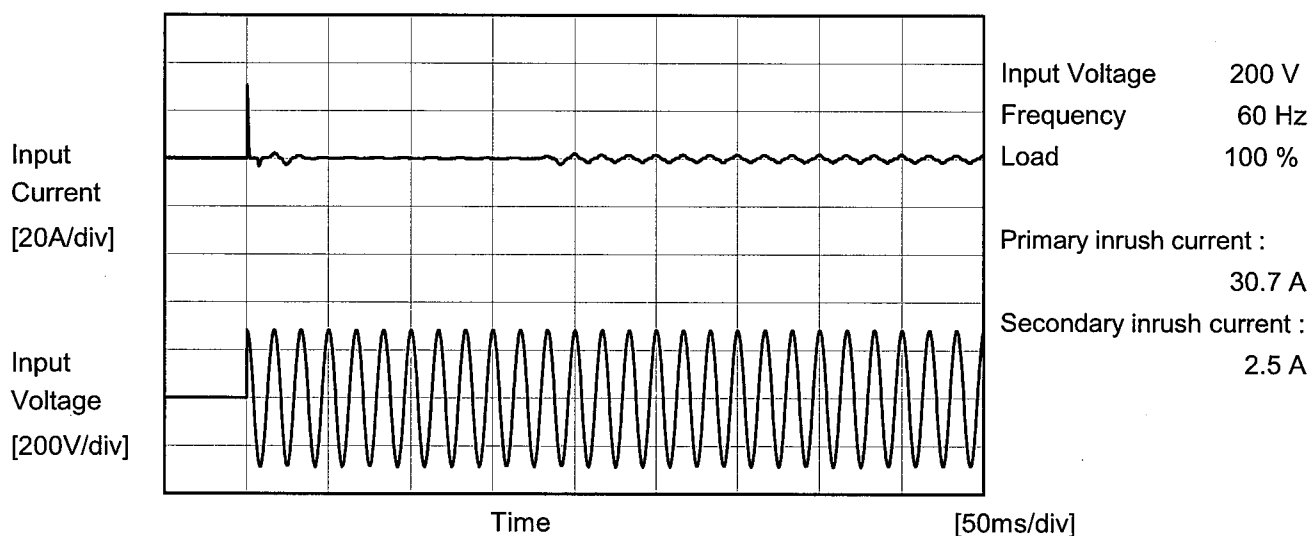
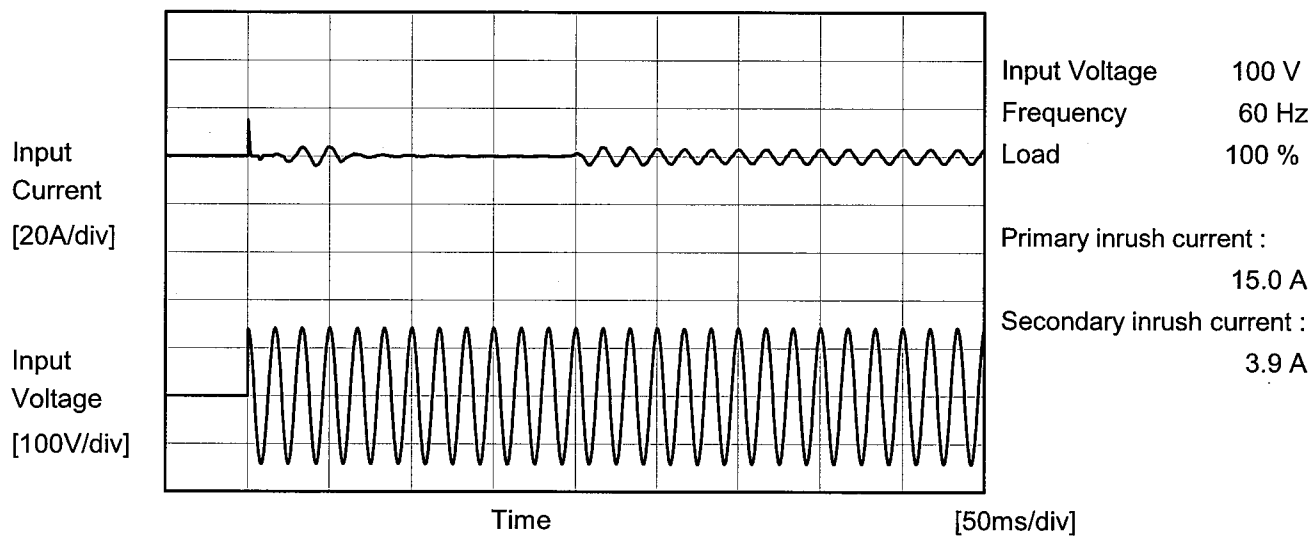
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BC-10625



# COSEL

Model	SPLFA150F-12	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object			



**COSEL**

		Temperature 25°C Testing Circuitry Figure B
Model	SPLFA150F-12	
Item	Leakage Current	
Object	_____	

## 1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	230 [V]	
DEN-AN	Both phases	0.27	0.40	0.44	Operation
	One of phases	0.23	0.51	0.60	Stand by
IEC60950-1	Both phases	0.16	0.35	0.41	Operation
	One of phases	0.24	0.52	0.61	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	SPLFA150F-12																																
Item	Line Regulation	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+12V12.5A																																
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>75</td><td>12.098</td><td>12.057</td></tr><tr><td>85</td><td>12.098</td><td>12.057</td></tr><tr><td>100</td><td>12.097</td><td>12.057</td></tr><tr><td>120</td><td>12.097</td><td>12.056</td></tr><tr><td>200</td><td>12.097</td><td>12.056</td></tr><tr><td>230</td><td>12.096</td><td>12.055</td></tr><tr><td>264</td><td>12.096</td><td>12.055</td></tr><tr><td>280</td><td>12.096</td><td>12.054</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	75	12.098	12.057	85	12.098	12.057	100	12.097	12.057	120	12.097	12.056	200	12.097	12.056	230	12.096	12.055	264	12.096	12.055	280	12.096	12.054	--	-	-		
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# COSEL

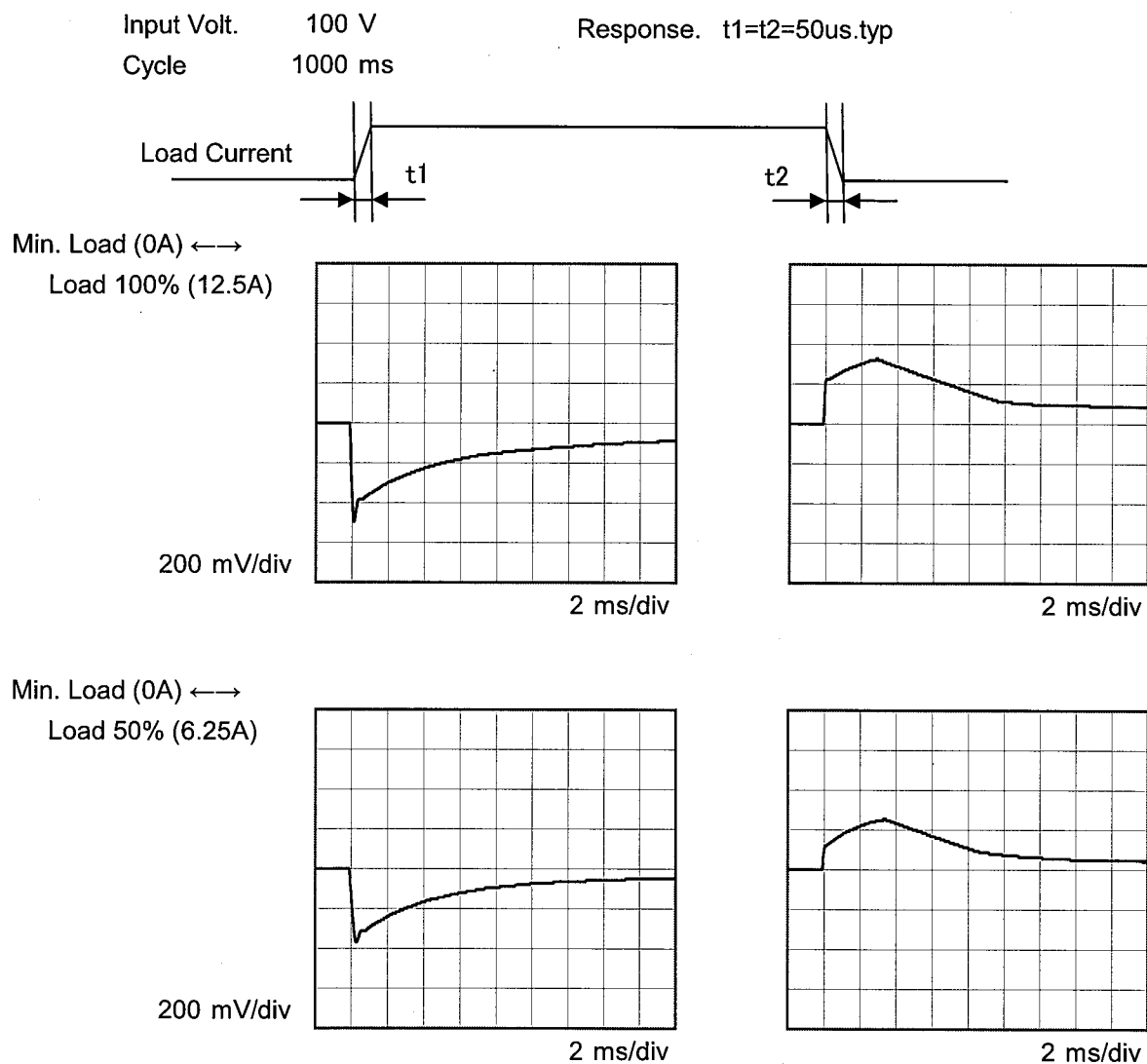
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<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div> <p>Output Voltage [V]</p> <p>Load Current [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">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>12.130</td><td>12.130</td><td>12.130</td></tr><tr><td>2.00</td><td>12.116</td><td>12.117</td><td>12.117</td></tr><tr><td>4.00</td><td>12.103</td><td>12.104</td><td>12.105</td></tr><tr><td>6.00</td><td>12.091</td><td>12.092</td><td>12.092</td></tr><tr><td>8.00</td><td>12.078</td><td>12.079</td><td>12.080</td></tr><tr><td>10.00</td><td>12.066</td><td>12.067</td><td>12.067</td></tr><tr><td>12.00</td><td>12.053</td><td>12.054</td><td>12.055</td></tr><tr><td>12.50</td><td>12.050</td><td>12.051</td><td>12.051</td></tr><tr><td>13.75</td><td>12.042</td><td>12.043</td><td>12.043</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	12.130	12.130	12.130	2.00	12.116	12.117	12.117	4.00	12.103	12.104	12.105	6.00	12.091	12.092	12.092	8.00	12.078	12.079	12.080	10.00	12.066	12.067	12.067	12.00	12.053	12.054	12.055	12.50	12.050	12.051	12.051	13.75	12.042	12.043	12.043	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
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BC-10625

# COSEL

Model	SPLFA150F-12	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+12V12.5A		



Model		SPLFA150F-12		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																							
Object		+12V12.5A																																									
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>10</td><td>10</td></tr><tr><td>2.50</td><td>20</td><td>20</td></tr><tr><td>5.00</td><td>20</td><td>20</td></tr><tr><td>7.50</td><td>25</td><td>25</td></tr><tr><td>10.00</td><td>30</td><td>30</td></tr><tr><td>12.50</td><td>30</td><td>30</td></tr><tr><td>13.75</td><td>40</td><td>40</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. 100 [V]	Input Volt. 200 [V]	0.00	10	10	2.50	20	20	5.00	20	20	7.50	25	25	10.00	30	30	12.50	30	30	13.75	40	40	--	-	-	--	-	-	--	-	-	--	-	-
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Model		SPLFA150F-12																																																																											
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# COSEL

Model		SPLFA150F-12	
Item		Ripple Voltage (by Ambient Temp.)	
Object		+12V12.5A	
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><div><div><div>-40</div><div>-20</div><div>0</div><div>20</div><div>40</div><div>60</div></div></div></div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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		SPLFA150F-12																																																				
Item		Ambient Temperature Drift																																																				
Object		+12V12.5A																																																				
1.Graph		2.Values																																																				
<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>Ambient Temperature [°C]</p> <p>Load 100%</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="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>-20</td><td>12.021</td><td>12.019</td><td>12.019</td></tr><tr><td>-10</td><td>12.023</td><td>12.021</td><td>12.021</td></tr><tr><td>0</td><td>12.058</td><td>12.058</td><td>12.058</td></tr><tr><td>10</td><td>12.058</td><td>12.057</td><td>12.057</td></tr><tr><td>20</td><td>12.058</td><td>12.058</td><td>12.058</td></tr><tr><td>25</td><td>12.060</td><td>12.059</td><td>12.058</td></tr><tr><td>30</td><td>12.059</td><td>12.058</td><td>12.058</td></tr><tr><td>40</td><td>12.056</td><td>12.055</td><td>12.055</td></tr><tr><td>50</td><td>12.051</td><td>12.051</td><td>12.051</td></tr><tr><td>60</td><td>12.046</td><td>12.046</td><td>12.045</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	-20	12.021	12.019	12.019	-10	12.023	12.021	12.021	0	12.058	12.058	12.058	10	12.058	12.057	12.057	20	12.058	12.058	12.058	25	12.060	12.059	12.058	30	12.059	12.058	12.058	40	12.056	12.055	12.055	50	12.051	12.051	12.051	60	12.046	12.046	12.045	--	-	-	-
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Model	SPLFA150F-12		
Item	Output Voltage Accuracy		Testing Circuitry    Figure A
Object	+12V12.5A		

### 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 - 12.5A

\* 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

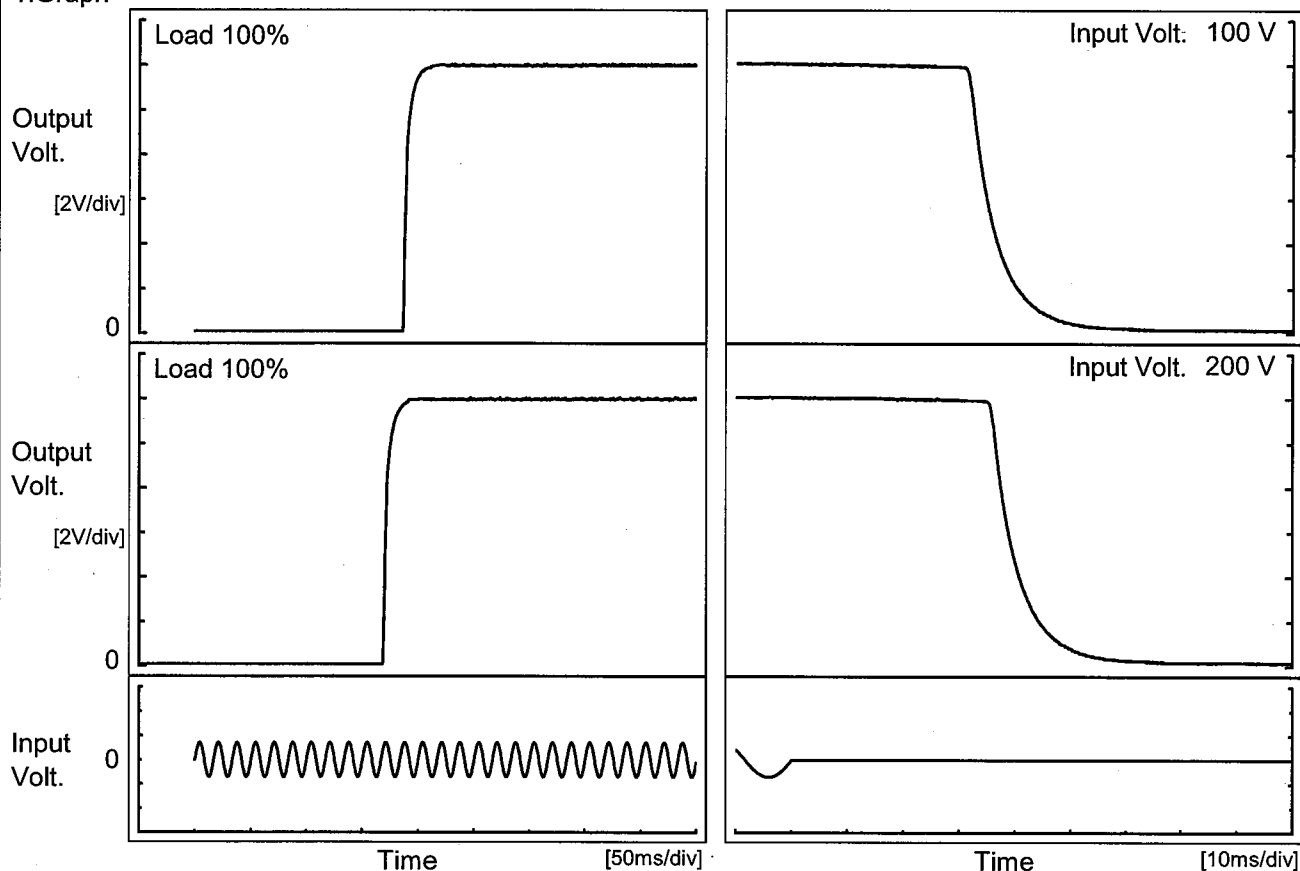
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	85	0	12.138	±59	±0.5
Minimum Voltage	-10	264	12.5	12.021		

# COSEL

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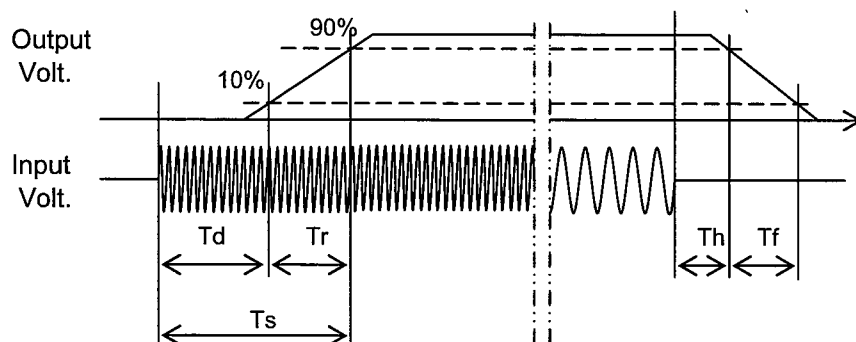
Model	SPLFA150F-12	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V12.5A		

## 1.Graph



## 2.Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	186.5	9.3	195.8	32.1	10.9
200 V	169.3	9.0	178.3	36.1	11.0



BC-10625

Model		SPLFA150F-12		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+12V12.5A																																																						
1.Graph		<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><p>Instantaneous Compensation Time [ms]</p><p>Load Current [A]</p></div>		2.Values																																																				
		<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>2.00</td><td>164</td><td>205</td><td>205</td></tr><tr><td>4.00</td><td>89</td><td>112</td><td>113</td></tr><tr><td>6.00</td><td>62</td><td>72</td><td>72</td></tr><tr><td>8.00</td><td>46</td><td>55</td><td>55</td></tr><tr><td>10.00</td><td>38</td><td>46</td><td>46</td></tr><tr><td>12.00</td><td>29</td><td>37</td><td>38</td></tr><tr><td>12.50</td><td>29</td><td>36</td><td>36</td></tr><tr><td>13.75</td><td>28</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></table>				Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	2.00	164	205	205	4.00	89	112	113	6.00	62	72	72	8.00	46	55	55	10.00	38	46	46	12.00	29	37	38	12.50	29	36	36	13.75	28	31	31	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
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12.00	29	37	38																																																					
12.50	29	36	36																																																					
13.75	28	31	31																																																					
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--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								

# COSEL

Model

SPLFA150F-12

Item

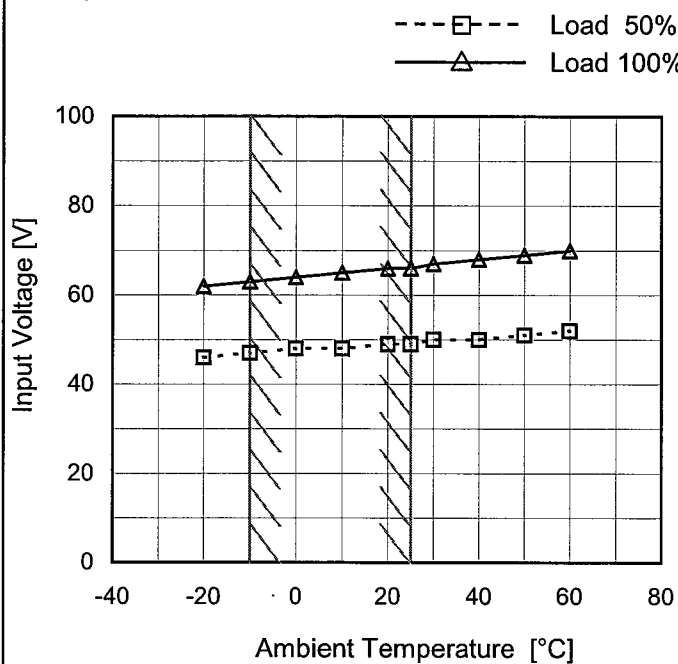
Minimum Input Voltage  
for Regulated Output Voltage

Object

+12V12.5A

Testing Circuitry Figure A

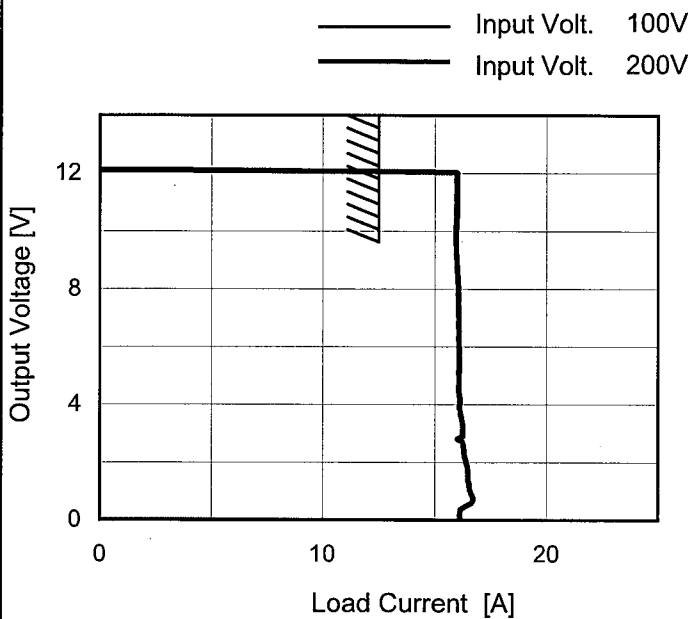
## 1.Graph



## 2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	46	62
-10	47	63
0	48	64
10	48	65
20	49	66
25	49	66
30	50	67
40	50	68
50	51	69
60	52	70
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**COSEL**

Model	SPLFA150F-12	Temperature 25°C Testing Circuitry Figure A																																										
Item	Overcurrent Protection																																											
Object	+12V12.5A																																											
1.Graph		2.Values																																										
<div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 200V</div></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>16.06</td><td>15.98</td></tr><tr><td>10.8</td><td>16.07</td><td>15.97</td></tr><tr><td>9.6</td><td>16.01</td><td>15.94</td></tr><tr><td>8.4</td><td>16.10</td><td>16.03</td></tr><tr><td>7.2</td><td>16.14</td><td>16.07</td></tr><tr><td>6.0</td><td>16.16</td><td>16.08</td></tr><tr><td>4.8</td><td>16.15</td><td>16.09</td></tr><tr><td>3.6</td><td>16.24</td><td>16.16</td></tr><tr><td>2.4</td><td>16.33</td><td>16.30</td></tr><tr><td>1.2</td><td>16.54</td><td>16.54</td></tr><tr><td>0.0</td><td>16.09</td><td>16.17</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	16.06	15.98	10.8	16.07	15.97	9.6	16.01	15.94	8.4	16.10	16.03	7.2	16.14	16.07	6.0	16.16	16.08	4.8	16.15	16.09	3.6	16.24	16.16	2.4	16.33	16.30	1.2	16.54	16.54	0.0	16.09	16.17	--	-	-
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BC-10625



Model	SPLFA150F-12																																								
Item	Overvoltage Protection	Testing Circuitry    Figure A																																							
Object	+12V12.5A																																								
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 200V</div></div><div>Operating Point [V]</div><div>Ambient Temperature [°C]</div><div>Load 0%</div></div>		<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>15.30</td><td>15.37</td></tr><tr><td>-10</td><td>15.43</td><td>15.44</td></tr><tr><td>0</td><td>15.51</td><td>15.51</td></tr><tr><td>10</td><td>15.57</td><td>15.57</td></tr><tr><td>20</td><td>15.64</td><td>15.71</td></tr><tr><td>25</td><td>15.71</td><td>15.71</td></tr><tr><td>30</td><td>15.78</td><td>15.78</td></tr><tr><td>40</td><td>15.85</td><td>15.85</td></tr><tr><td>50</td><td>15.99</td><td>15.99</td></tr><tr><td>60</td><td>16.06</td><td>16.13</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	15.30	15.37	-10	15.43	15.44	0	15.51	15.51	10	15.57	15.57	20	15.64	15.71	25	15.71	15.71	30	15.78	15.78	40	15.85	15.85	50	15.99	15.99	60	16.06	16.13	--	-	-
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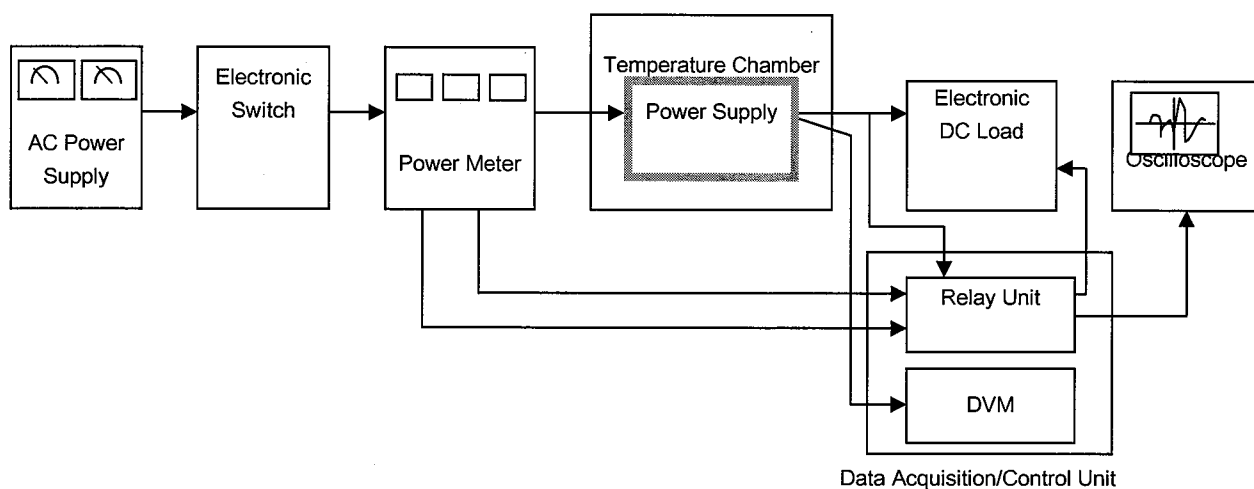


Figure A

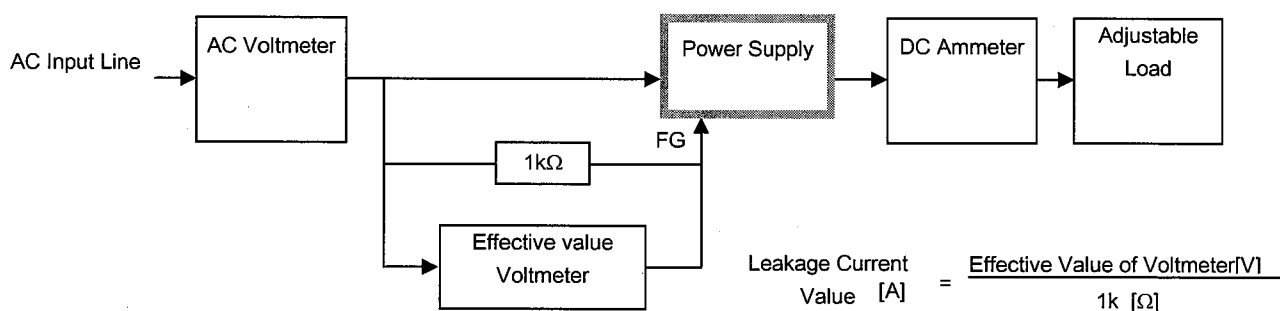


Figure B ( DEN-AN )

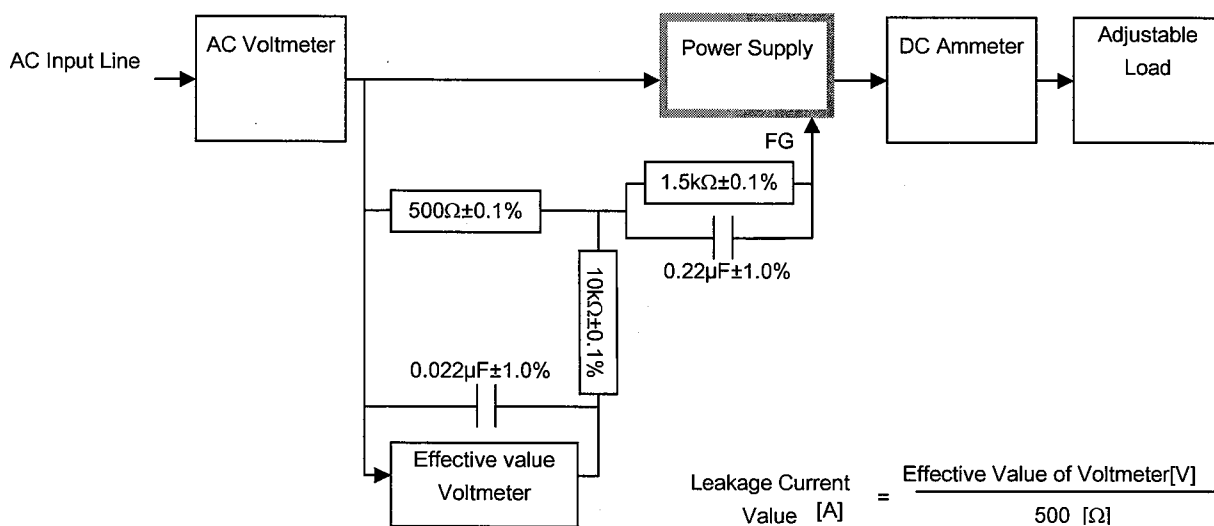


Figure B ( IEC60950-1 )

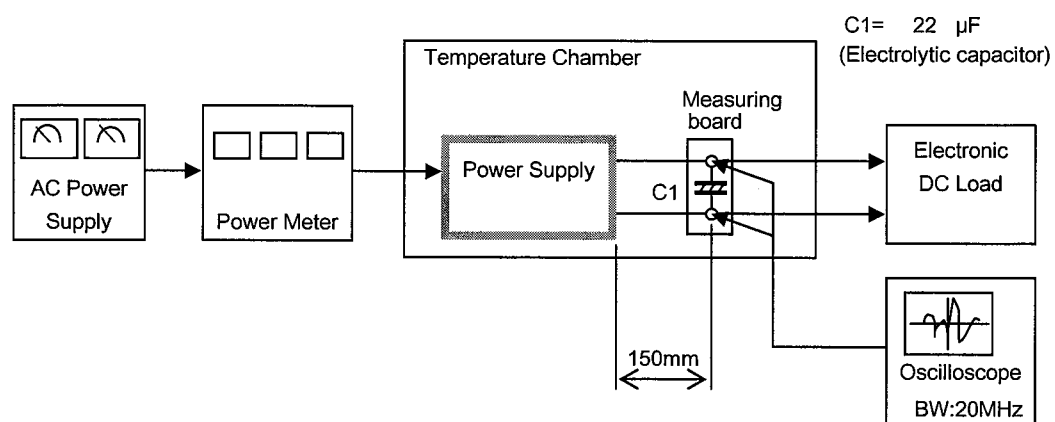


Figure C