

TEST DATA OF SPLFA100F-24

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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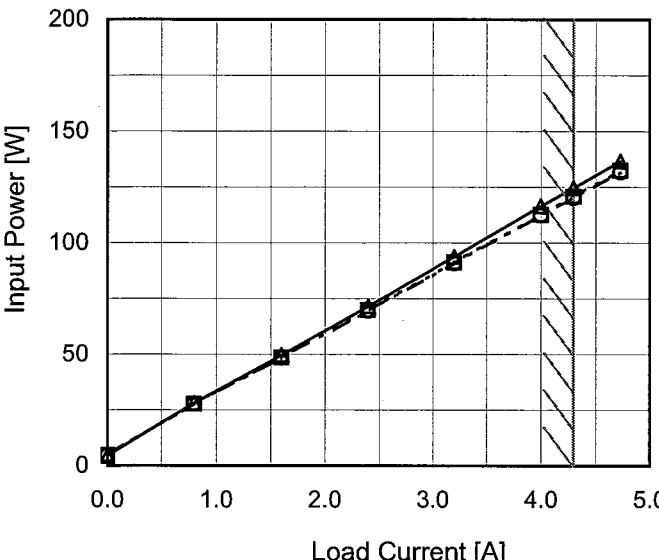
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Model		SPLFA100F-24		Temperature 25°C																																																		
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																		
Object																																																						
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>-·-○-·-</div>Input Volt. 230V</div>		2.Values																																																		
<div><div>Input Current [A]</div><div><div>Load Current [A]</div></div></div>		<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>0.083</td><td>0.090</td></tr><tr><td>0.80</td><td>0.296</td><td>0.179</td><td>0.175</td></tr><tr><td>1.60</td><td>0.513</td><td>0.276</td><td>0.253</td></tr><tr><td>2.40</td><td>0.737</td><td>0.379</td><td>0.339</td></tr><tr><td>3.20</td><td>0.962</td><td>0.486</td><td>0.429</td></tr><tr><td>4.00</td><td>1.190</td><td>0.594</td><td>0.522</td></tr><tr><td>4.30</td><td>1.272</td><td>0.635</td><td>0.556</td></tr><tr><td>4.73</td><td>1.391</td><td>0.693</td><td>0.606</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]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	0.068	0.083	0.090	0.80	0.296	0.179	0.175	1.60	0.513	0.276	0.253	2.40	0.737	0.379	0.339	3.20	0.962	0.486	0.429	4.00	1.190	0.594	0.522	4.30	1.272	0.635	0.556	4.73	1.391	0.693	0.606	--	-	-	-	--	-	-	-	--	-	-	-
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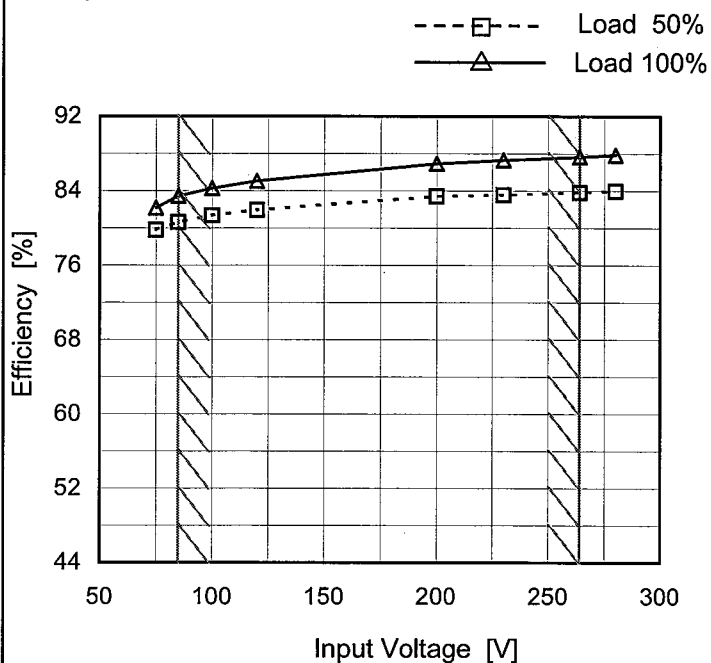
Model SPLFA100F-24

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%
75	79.8	82.2
85	80.6	83.5
100	81.3	84.3
120	81.9	85.1
200	83.4	86.9
230	83.6	87.3
264	83.8	87.7
280	84.0	87.9
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Model		SPLFA100F-24																																	
Item		Power Factor (by Input Voltage)																																	
Object																																			
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Model

SPLFA100F-24

Item

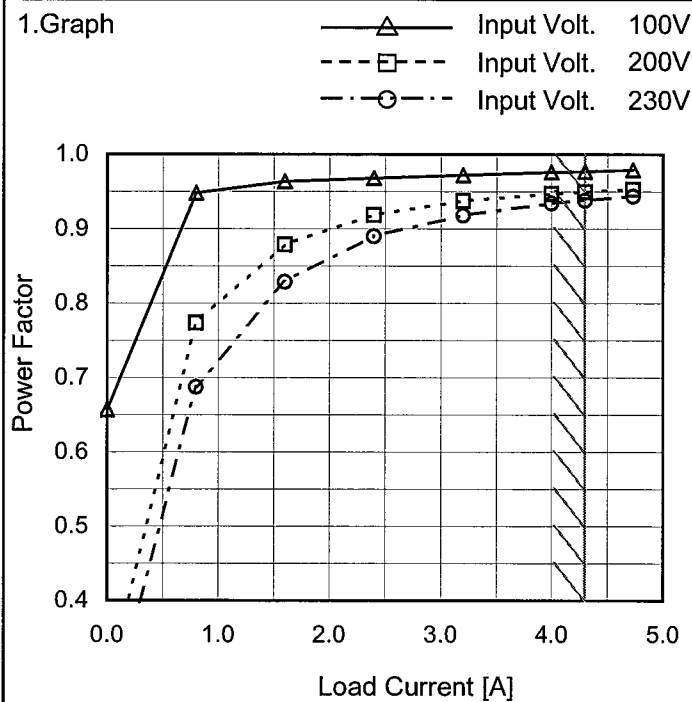
Power Factor (by Load Current)

Object

Temperature 25°C

Testing Circuitry Figure A

1.Graph



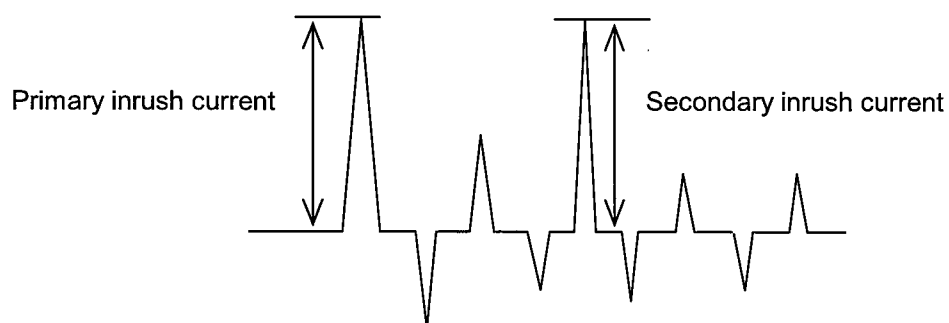
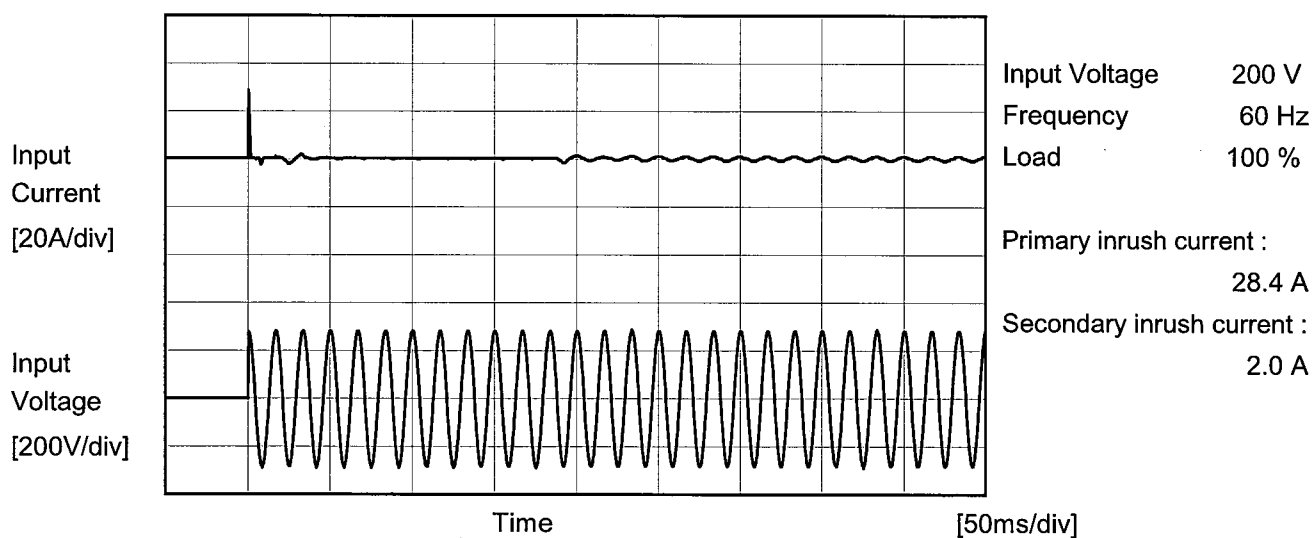
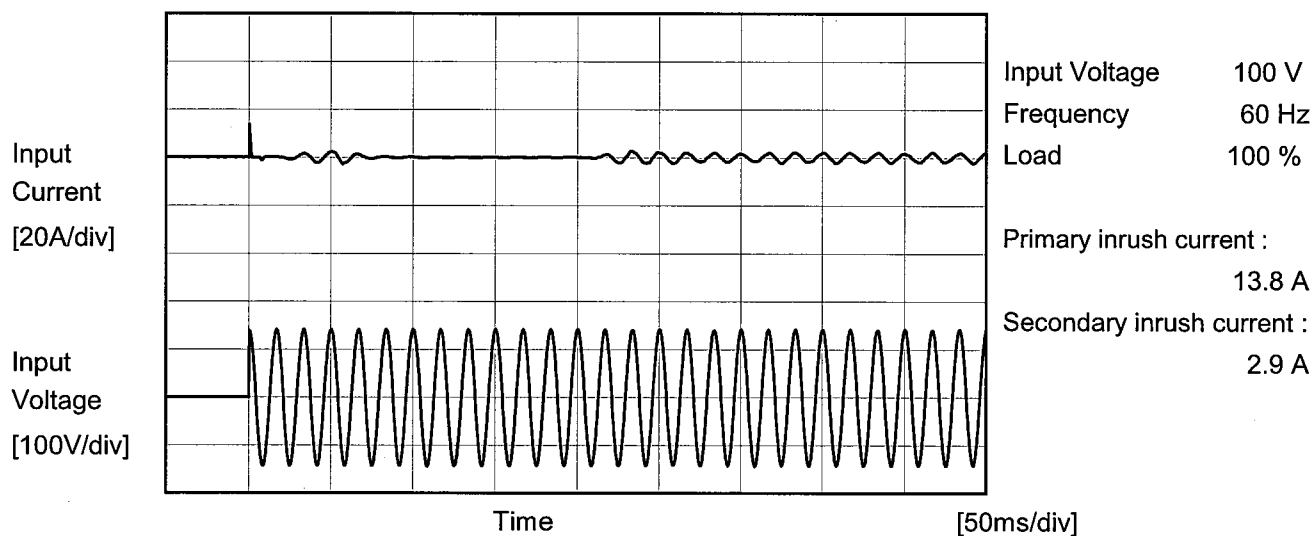
Note: Slanted line shows the range of the rated load current.

2.Values

Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	0.657	0.283	0.227
0.80	0.948	0.774	0.687
1.60	0.964	0.879	0.829
2.40	0.968	0.918	0.890
3.20	0.972	0.937	0.918
4.00	0.976	0.947	0.934
4.30	0.977	0.950	0.938
4.73	0.979	0.953	0.944
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Model	SPLFA100F-24		
Item	Inrush Current	Temperature	25°C
Object		Testing Circuitry	Figure A



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		Temperature 25°C Testing Circuitry Figure B
Model	SPLFA100F-24	
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.

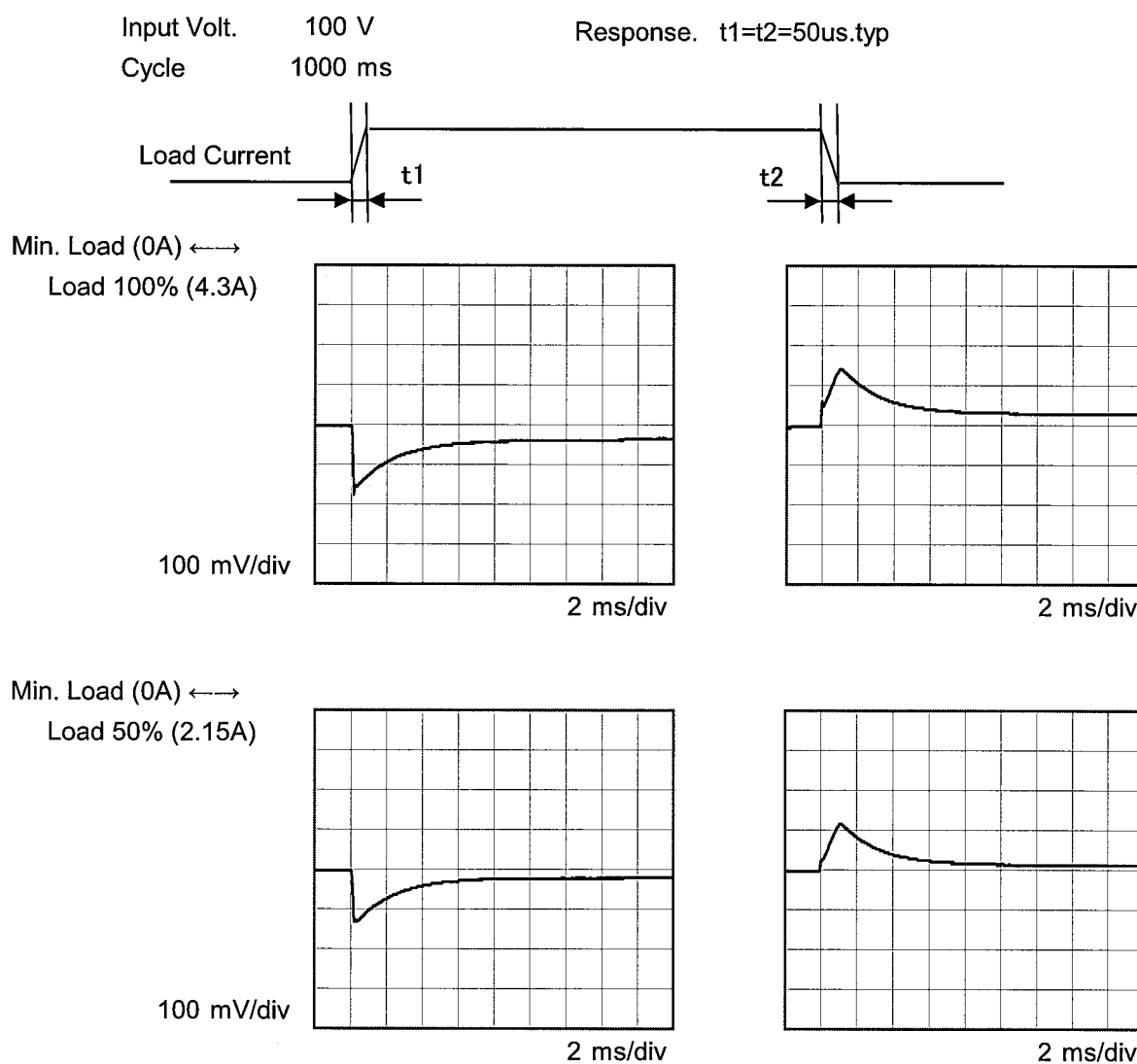
2.Condition

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

Model	SPLFA100F-24																																																																
Item	Line Regulation	Temperature	25°C																																																														
Object	+24V4.3A	Testing Circuitry	Figure A																																																														
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Model	SPLFA100F-24	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+24V4.3A		



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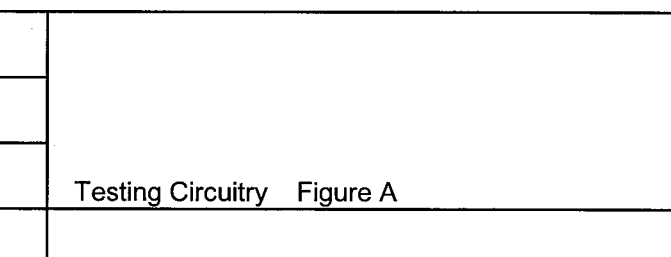
Model		SPLFA100F-24		Temperature		25°C	
Item		Ripple Voltage (by Load Current)		Testing Circuitry		Figure C	
Object		+24V4.3A					
1.Graph				2.Values			
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Model		SPLFA100F-24		Temperature 25°C																																							
Item		Ripple-Noise		Testing Circuitry Figure C																																							
Object		+24V4.3A																																									
1.Graph				2.Values																																							
<div><div><div><div><div></div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---○---</div><div>Input Volt. 200V</div></div></div><div><p>Ripple-Noise [mV]</p><p>Load Current [A]</p></div></div><div><p>Measured by 20 MHz Oscilloscope.</p><p>Ripple-Noise is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [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>0.80</td><td>25</td><td>25</td></tr><tr><td>1.60</td><td>30</td><td>30</td></tr><tr><td>2.40</td><td>30</td><td>30</td></tr><tr><td>3.20</td><td>30</td><td>30</td></tr><tr><td>4.00</td><td>35</td><td>35</td></tr><tr><td>4.30</td><td>35</td><td>35</td></tr><tr><td>4.73</td><td>35</td><td>35</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-Noise [mV]		Input Volt. 100 [V]	Input Volt. 200 [V]	0.00	20	20	0.80	25	25	1.60	30	30	2.40	30	30	3.20	30	30	4.00	35	35	4.30	35	35	4.73	35	35	--	-	-	--	-	-	--	-	-
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<div><div><div><div><div></div><div>T1: Due to AC Input Line</div></div><div><div></div><div>T2: Due to Switching</div></div></div><div><p>Ripple-Noise [mVp-p]</p></div></div><p>Fig. Complex Ripple Wave Form</p></div>																																											

Model		SPLFA100F-24	
Item		Ripple Voltage (by Ambient Temp.)	
Object		+24V4.3A	
1.Graph		2.Values	

Model		SPLFA100F-24	
Item		Ambient Temperature Drift	
Object		+24V4.3A	
1.Graph		2.Values	



		
Model	SPLFA100F-24	
Item	Output Voltage Accuracy	
Object	+24V4.3A	

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 - 4.3A

* 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	25	85	0	24.378	±23	±0.1
Minimum Voltage	40	264	4.3	24.333		

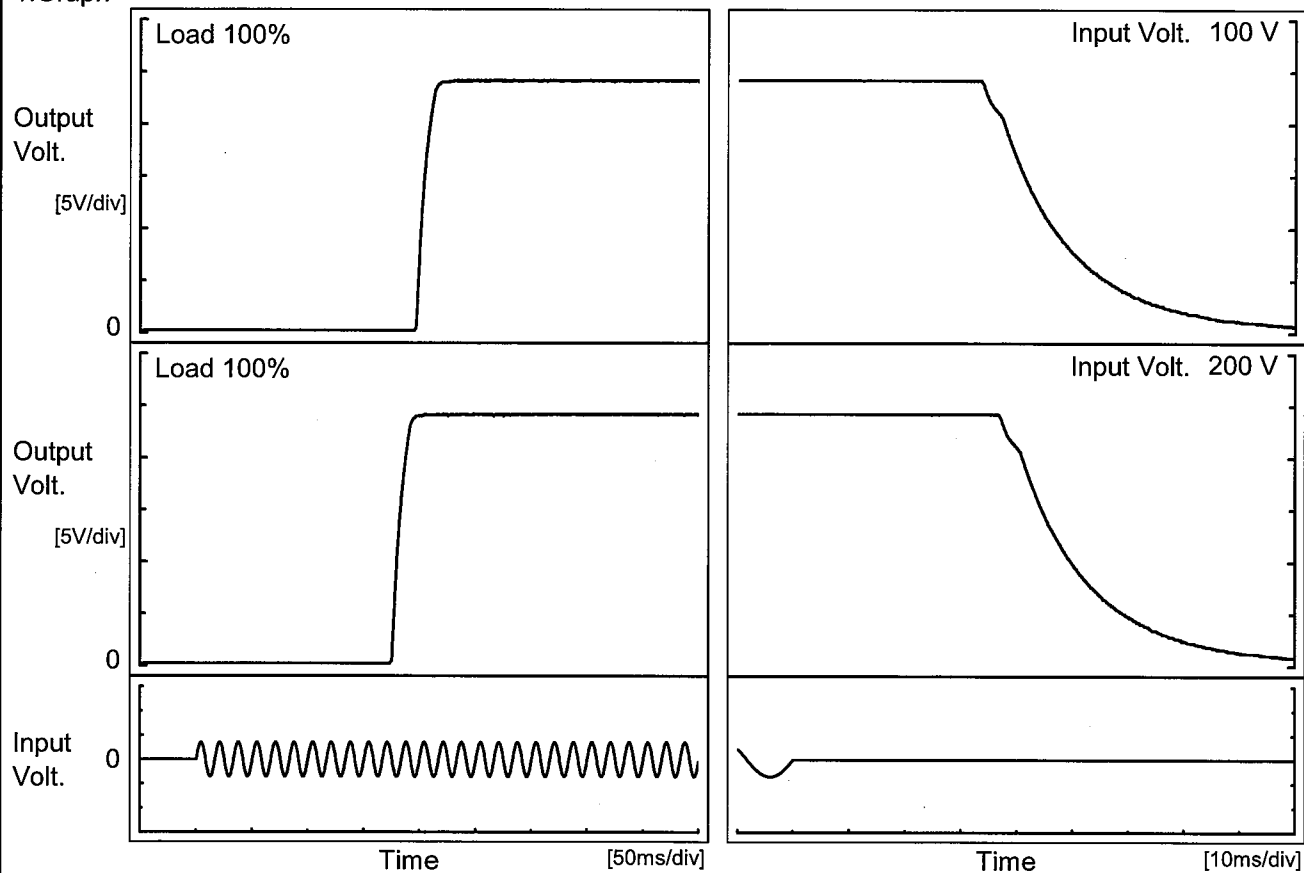
COSEL

Model		SPLFA100F-24		Temperature25°C Testing CircuitryFigure A
Item		Time Lapse Drift		
Object		+24V4.3A		
1.Graph				
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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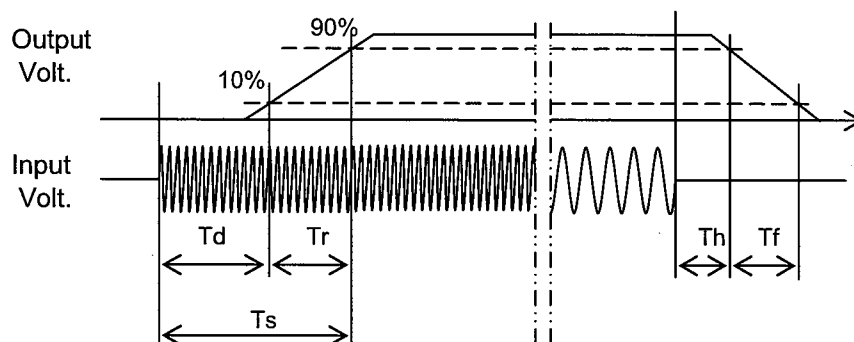
Model	SPLFA100F-24	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+24V4.3A		

1. Graph



2. Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	198.0	13.5	211.5	35.6	30.5
200 V	176.3	13.3	189.6	38.8	30.6



Model	SPLFA100F-24																																		
Item	Hold-Up Time	Temperature	25°C																																
Object	+24V4.3A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div><div>Hold-Up Time [ms]</div><div>Input Voltage [V]</div></div> <div><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></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>66</td><td>32</td></tr><tr><td>85</td><td>67</td><td>33</td></tr><tr><td>100</td><td>69</td><td>34</td></tr><tr><td>120</td><td>71</td><td>35</td></tr><tr><td>200</td><td>74</td><td>37</td></tr><tr><td>230</td><td>76</td><td>38</td></tr><tr><td>264</td><td>78</td><td>39</td></tr><tr><td>280</td><td>80</td><td>40</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	75	66	32	85	67	33	100	69	34	120	71	35	200	74	37	230	76	38	264	78	39	280	80	40	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
75	66	32																																	
85	67	33																																	
100	69	34																																	
120	71	35																																	
200	74	37																																	
230	76	38																																	
264	78	39																																	
280	80	40																																	
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- 19 -

BC-10624

Model	SPLFA100F-24																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+24V4.3A	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> <p>Instantaneous Compensation Time [ms]</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">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>0.80</td><td>160</td><td>185</td><td>190</td></tr><tr><td>1.60</td><td>87</td><td>98</td><td>102</td></tr><tr><td>2.40</td><td>56</td><td>68</td><td>69</td></tr><tr><td>3.20</td><td>40</td><td>51</td><td>52</td></tr><tr><td>4.00</td><td>31</td><td>39</td><td>39</td></tr><tr><td>4.30</td><td>30</td><td>38</td><td>38</td></tr><tr><td>4.73</td><td>28</td><td>31</td><td>35</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	-	-	-	0.80	160	185	190	1.60	87	98	102	2.40	56	68	69	3.20	40	51	52	4.00	31	39	39	4.30	30	38	38	4.73	28	31	35	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
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3.20	40	51	52																																																			
4.00	31	39	39																																																			
4.30	30	38	38																																																			
4.73	28	31	35																																																			
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Model	SPLFA100F-24																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+24V4.3A	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>22.8</td><td>5.57</td><td>5.57</td></tr><tr><td>21.6</td><td>5.63</td><td>5.61</td></tr><tr><td>19.2</td><td>5.67</td><td>5.66</td></tr><tr><td>16.8</td><td>5.67</td><td>5.68</td></tr><tr><td>14.4</td><td>5.75</td><td>5.75</td></tr><tr><td>12.0</td><td>5.81</td><td>5.82</td></tr><tr><td>9.6</td><td>5.85</td><td>5.90</td></tr><tr><td>7.2</td><td>6.04</td><td>6.07</td></tr><tr><td>4.8</td><td>5.97</td><td>5.99</td></tr><tr><td>2.4</td><td>5.83</td><td>5.88</td></tr><tr><td>0.0</td><td>7.94</td><td>8.12</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]	22.8	5.57	5.57	21.6	5.63	5.61	19.2	5.67	5.66	16.8	5.67	5.68	14.4	5.75	5.75	12.0	5.81	5.82	9.6	5.85	5.90	7.2	6.04	6.07	4.8	5.97	5.99	2.4	5.83	5.88	0.0	7.94	8.12	--	-	-
Output Voltage [V]	Load Current [A]																																											
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Model		SPLFA100F-24																																							
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Object		+24V4.3A																																							
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> <div>Note: Slanted line shows the range of the rated ambient temperature.</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>30.82</td><td>30.82</td></tr><tr><td>-10</td><td>31.15</td><td>31.03</td></tr><tr><td>0</td><td>31.31</td><td>31.31</td></tr><tr><td>10</td><td>31.63</td><td>31.52</td></tr><tr><td>20</td><td>31.80</td><td>31.80</td></tr><tr><td>25</td><td>31.94</td><td>31.94</td></tr><tr><td>30</td><td>32.08</td><td>32.08</td></tr><tr><td>40</td><td>32.41</td><td>32.29</td></tr><tr><td>50</td><td>32.57</td><td>32.57</td></tr><tr><td>60</td><td>32.90</td><td>32.78</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	30.82	30.82	-10	31.15	31.03	0	31.31	31.31	10	31.63	31.52	20	31.80	31.80	25	31.94	31.94	30	32.08	32.08	40	32.41	32.29	50	32.57	32.57	60	32.90	32.78	--	-	-
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BC-10624

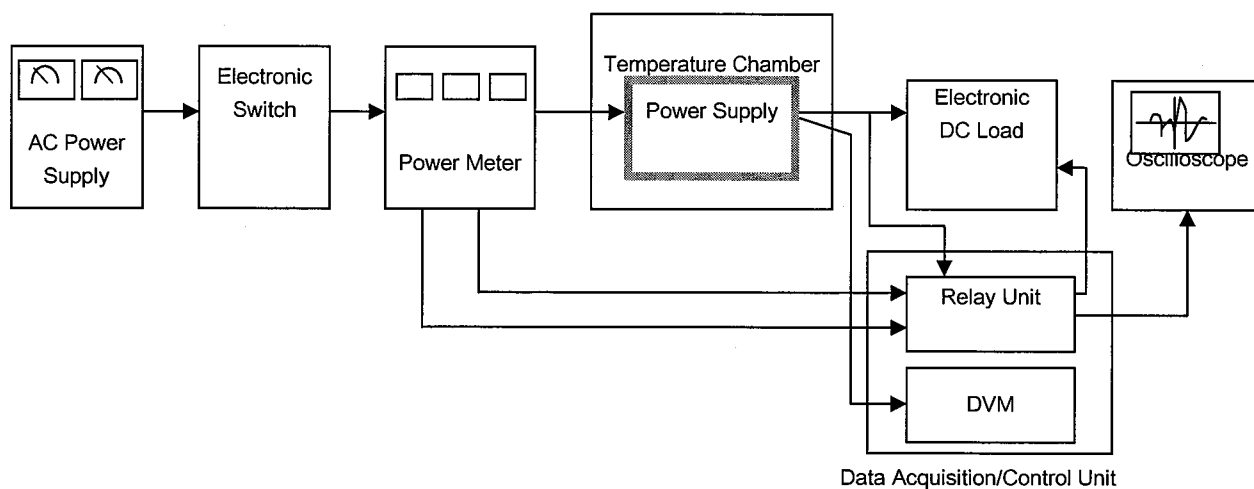


Figure A

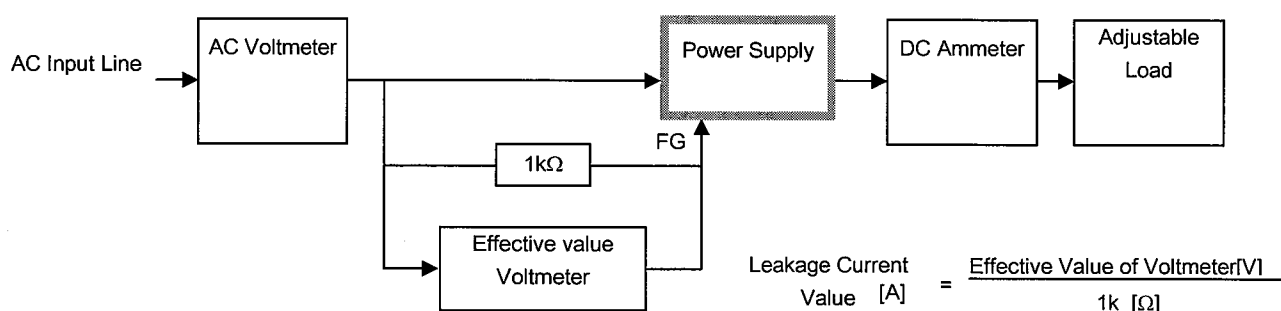


Figure B (DEN-AN)

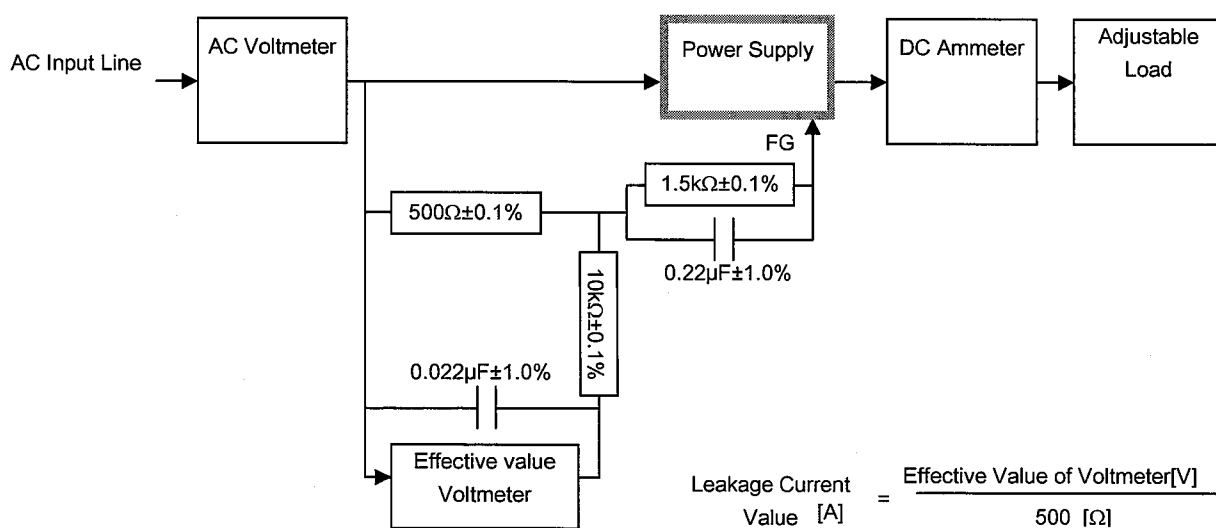


Figure B (IEC60950-1)

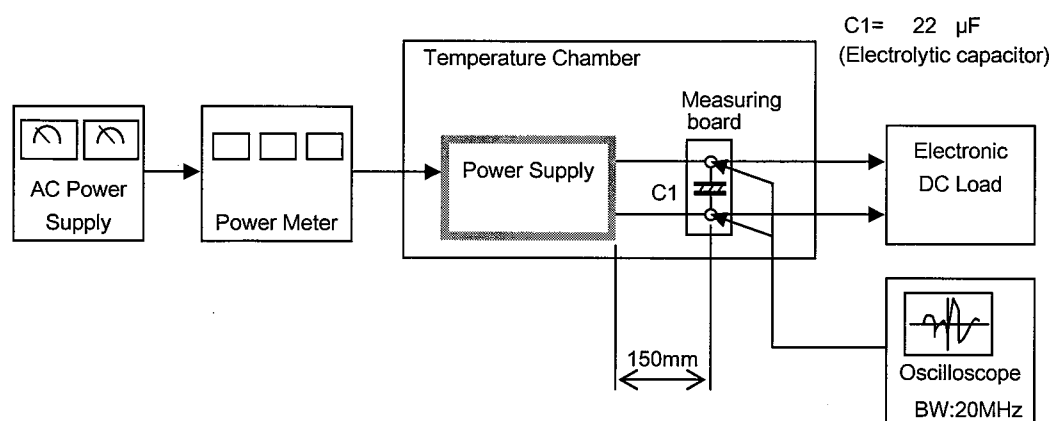


Figure C