

TEST DATA OF LFP100F-36-Y

Regulated DC Power Supply
February 2, 2013

Approved by : Yoshiaki Shimizu Design Manager
Yoshiaki Shimizu

Prepared by : Soshi Nakamura Design Engineer
Soshi Nakamura

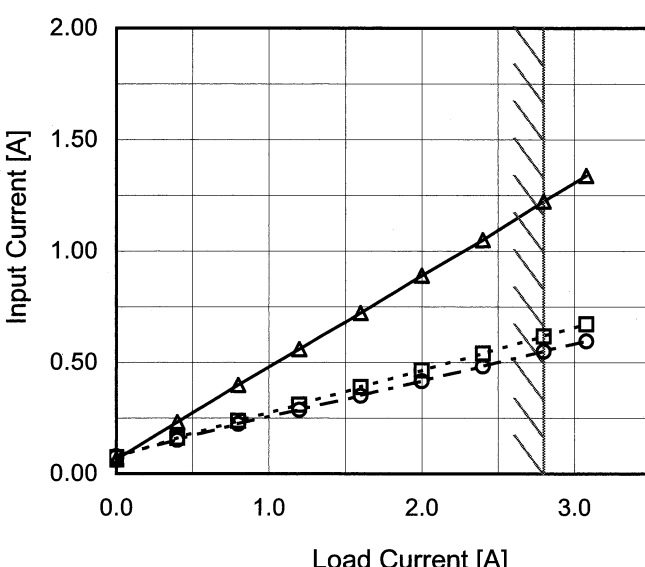
COSEL CO.,LTD.

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Model	LFP100F-36-Y			
Item	Input Current (by Load Current)		Temperature	25°C
Object			Testing Circuitry	Figure A
1.Graph		2.Values		
<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> 				
Note: Slanted line shows the range of the rated load current.				

Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	0.065	0.073	0.078
0.40	0.233	0.161	0.153
0.80	0.400	0.238	0.224
1.20	0.561	0.310	0.288
1.60	0.722	0.389	0.350
2.00	0.891	0.464	0.417
2.40	1.050	0.541	0.483
2.80	1.224	0.618	0.551
3.08	1.339	0.672	0.597
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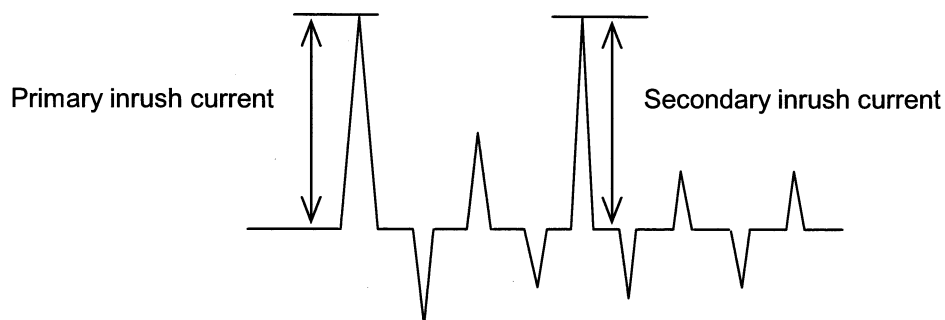
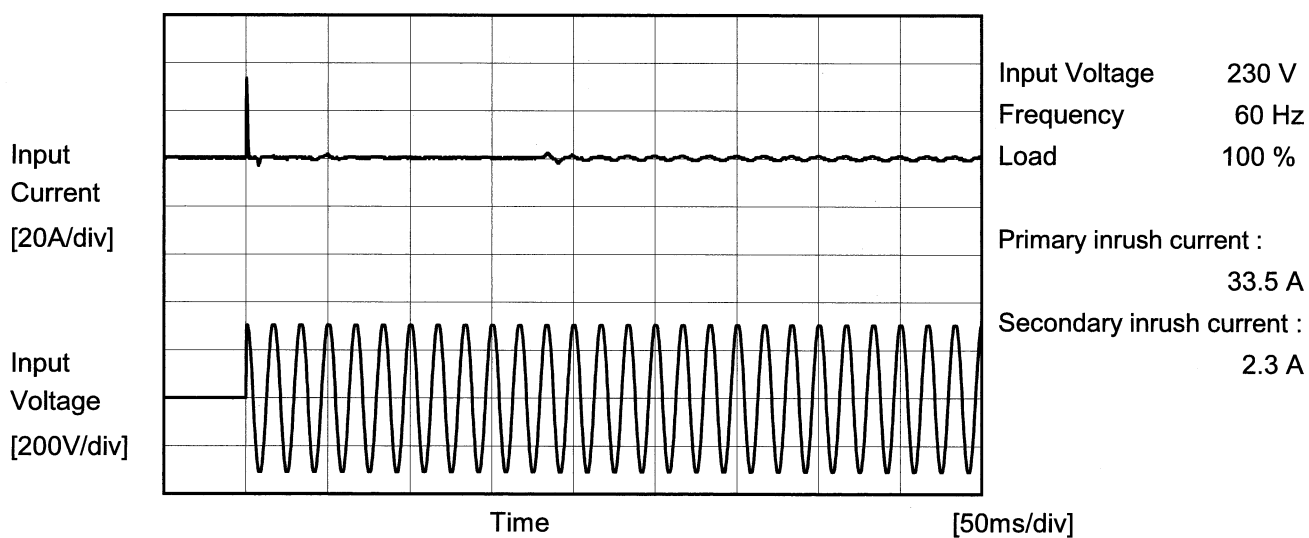
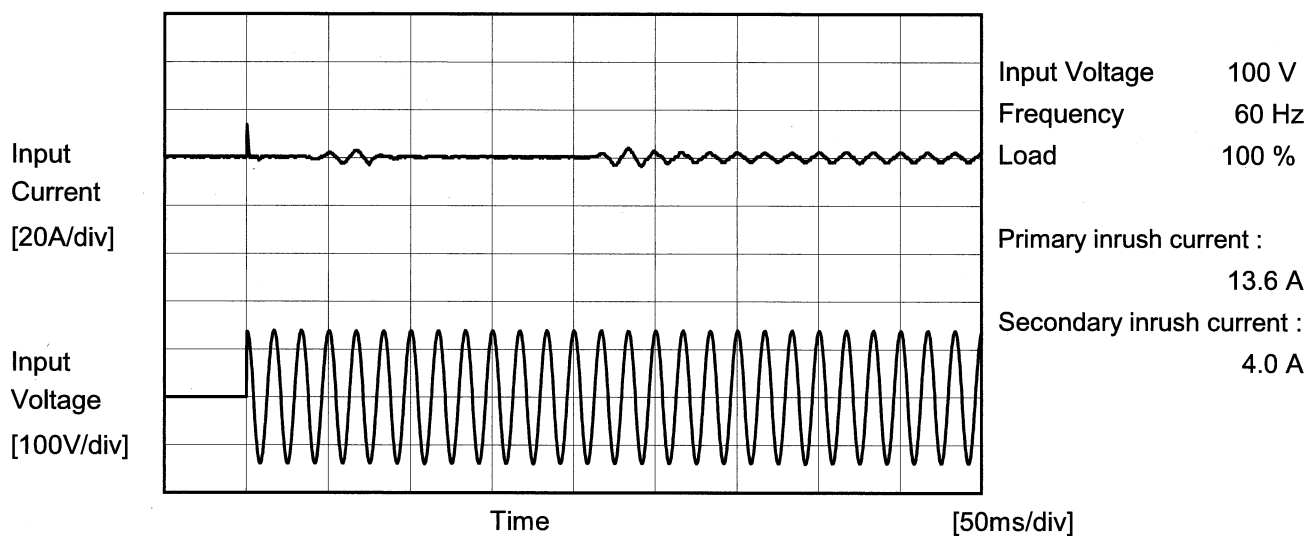
Model		LFP100F-36-Y		Temperature		25°C																																	
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Model	LFP100F-36-Y	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			





Model		LFP100F-36-Y	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	240 [V]	
DEN-AN	Both phases	0.27	0.35	0.37	Operation
	One of phases	0.25	0.55	0.68	Stand by
IEC60950-1	Both phases	0.13	0.29	0.33	Operation
	One of phases	0.25	0.53	0.64	Stand by

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

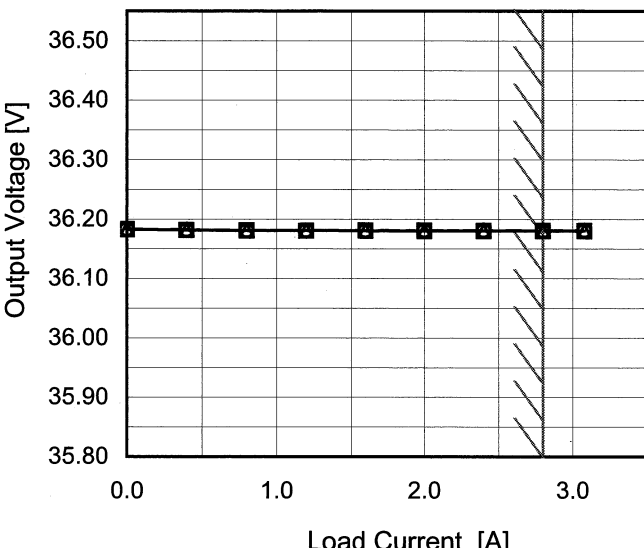
2.Condition

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



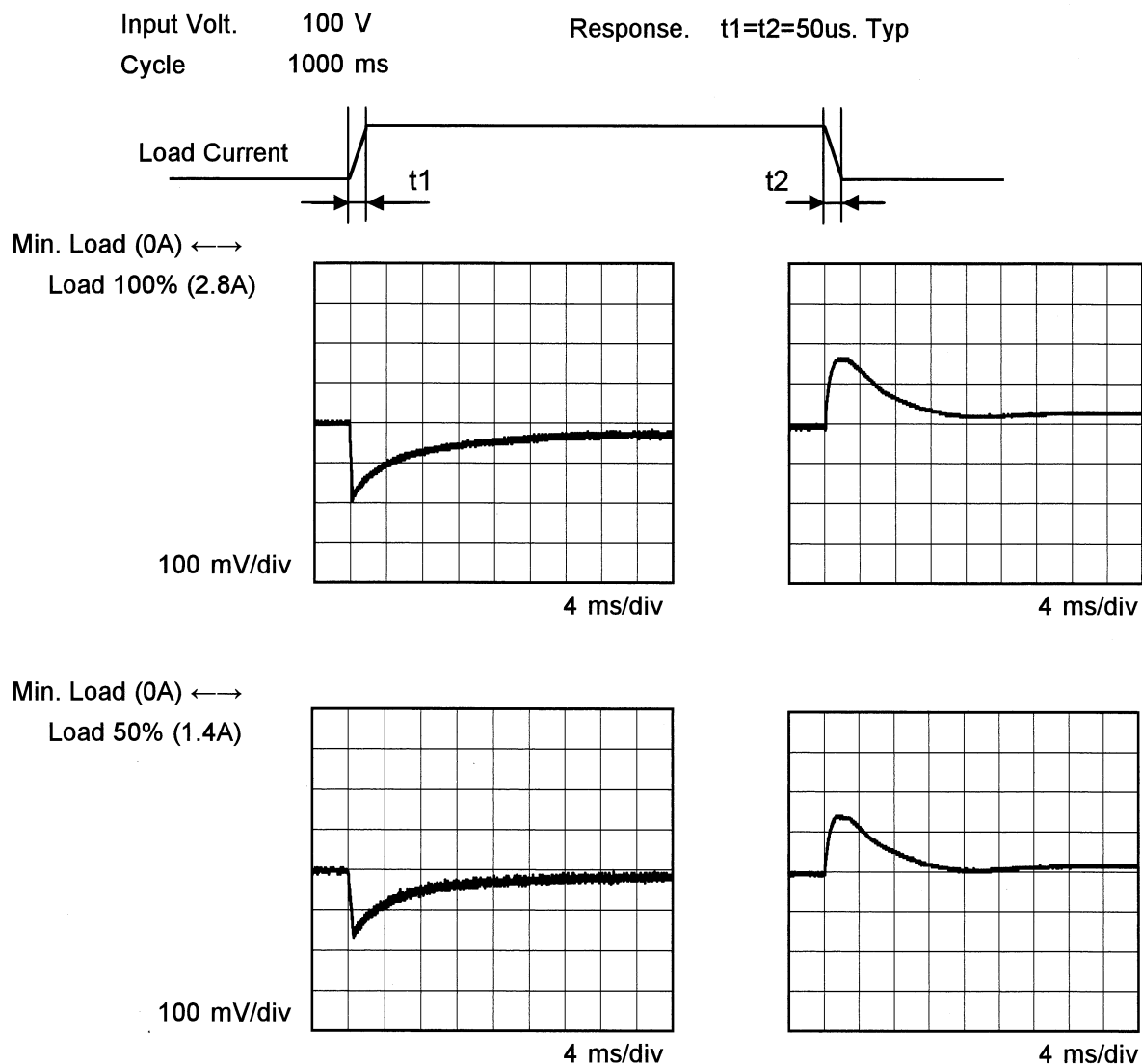
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Load Current [A]	Output Voltage [V]																																																					
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0.00	36.183	36.183	36.183																																																			
0.40	36.182	36.181	36.182																																																			
0.80	36.181	36.181	36.181																																																			
1.20	36.181	36.181	36.181																																																			
1.60	36.181	36.181	36.181																																																			
2.00	36.181	36.181	36.181																																																			
2.40	36.180	36.180	36.181																																																			
2.80	36.180	36.181	36.181																																																			
3.08	36.180	36.181	36.181																																																			
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Note: Slanted line shows the range of the rated load current.																																																						

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Model	LFP100F-36-Y	Temperature	25° C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+36V2.8A		



COSEL

Model		LF100F-36-Y		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																							
Object		+36V2.8A																																									
1.Graph				2.Values																																							
<div><div><div><div><div></div><div>—△—</div><div>Input Volt. 100V</div></div><div><div></div><div>---○---</div><div>Input Volt. 230V</div></div></div><div></div></div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.00</td><td>15</td><td>15</td></tr><tr><td>0.40</td><td>25</td><td>25</td></tr><tr><td>0.80</td><td>25</td><td>25</td></tr><tr><td>1.20</td><td>25</td><td>25</td></tr><tr><td>1.60</td><td>30</td><td>30</td></tr><tr><td>2.00</td><td>30</td><td>30</td></tr><tr><td>2.40</td><td>35</td><td>35</td></tr><tr><td>2.80</td><td>35</td><td>35</td></tr><tr><td>3.08</td><td>40</td><td>40</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. 230 [V]	0.00	15	15	0.40	25	25	0.80	25	25	1.20	25	25	1.60	30	30	2.00	30	30	2.40	35	35	2.80	35	35	3.08	40	40	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																										
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Fig. Complex Ripple Wave Form																																											

COSEL

Model		LFP100F-36-Y																																							
Item		Ripple-Noise																																							
Object		+36V2.8A																																							
1.Graph		2.Values																																							
<div><div><div><div><div></div><div></div></div><div>Input Volt. 100V</div></div><div><div><div></div><div></div></div><div>Input Volt. 230V</div></div></div><div><div><div><div><div></div><div></div></div><div>200</div></div><div><div><div></div><div></div></div><div>180</div></div><div><div><div></div><div></div></div><div>160</div></div><div><div><div></div><div></div></div><div>140</div></div><div><div><div></div><div></div></div><div>120</div></div><div><div><div></div><div></div></div><div>100</div></div><div><div><div></div><div></div></div><div>80</div></div><div><div><div></div><div></div></div><div>60</div></div><div><div><div></div><div></div></div><div>40</div></div><div><div><div></div><div></div></div><div>20</div></div><div><div><div></div><div></div></div><div>0</div></div></div><div><div><div></div><div></div></div><div>0.0</div></div><div><div><div></div><div></div></div><div>1.0</div></div><div><div><div></div><div></div></div><div>2.0</div></div><div><div><div></div><div></div></div><div>3.0</div></div></div></div> <div><div>Load Current [A]</div><div>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.</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. 230 [V]</th></tr><tr><td>0.00</td><td>30</td><td>30</td></tr><tr><td>0.40</td><td>35</td><td>35</td></tr><tr><td>0.80</td><td>35</td><td>35</td></tr><tr><td>1.20</td><td>45</td><td>50</td></tr><tr><td>1.60</td><td>55</td><td>55</td></tr><tr><td>2.00</td><td>60</td><td>65</td></tr><tr><td>2.40</td><td>60</td><td>65</td></tr><tr><td>2.80</td><td>60</td><td>65</td></tr><tr><td>3.08</td><td>60</td><td>65</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. 230 [V]	0.00	30	30	0.40	35	35	0.80	35	35	1.20	45	50	1.60	55	55	2.00	60	65	2.40	60	65	2.80	60	65	3.08	60	65	--	-	-	--	-	-	<div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><div><div><div><div><div></div><div></div></div><div>Ripple-Noise [mVp-p]</div></div><div><div><div></div><div></div></div><div>T2</div></div><div><div><div></div><div></div></div><div>T1</div></div></div></div><div><div>Fig. Complex Ripple Wave Form</div></div></div>	
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Model	LFP100F-36-Y																																						
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure C																																					
Object	+36V2.8A																																						
1.Graph		2.Values																																					
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Ambient Temperature [°C]	100V [mV]	230V [mV]																																					
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Model	LFP100F-36-Y																																																						
Item	Ambient Temperature Drift		Testing Circuitry Figure A																																																				
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		Testing Circuitry Figure A
Model	LFP100F-36-Y	
Item	Output Voltage Accuracy	
Object	+36V2.8A	

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 - 2.8A

* 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	50	200	0	36.221	±42	±0.1
Minimum Voltage	-10	85	2.8	36.138		

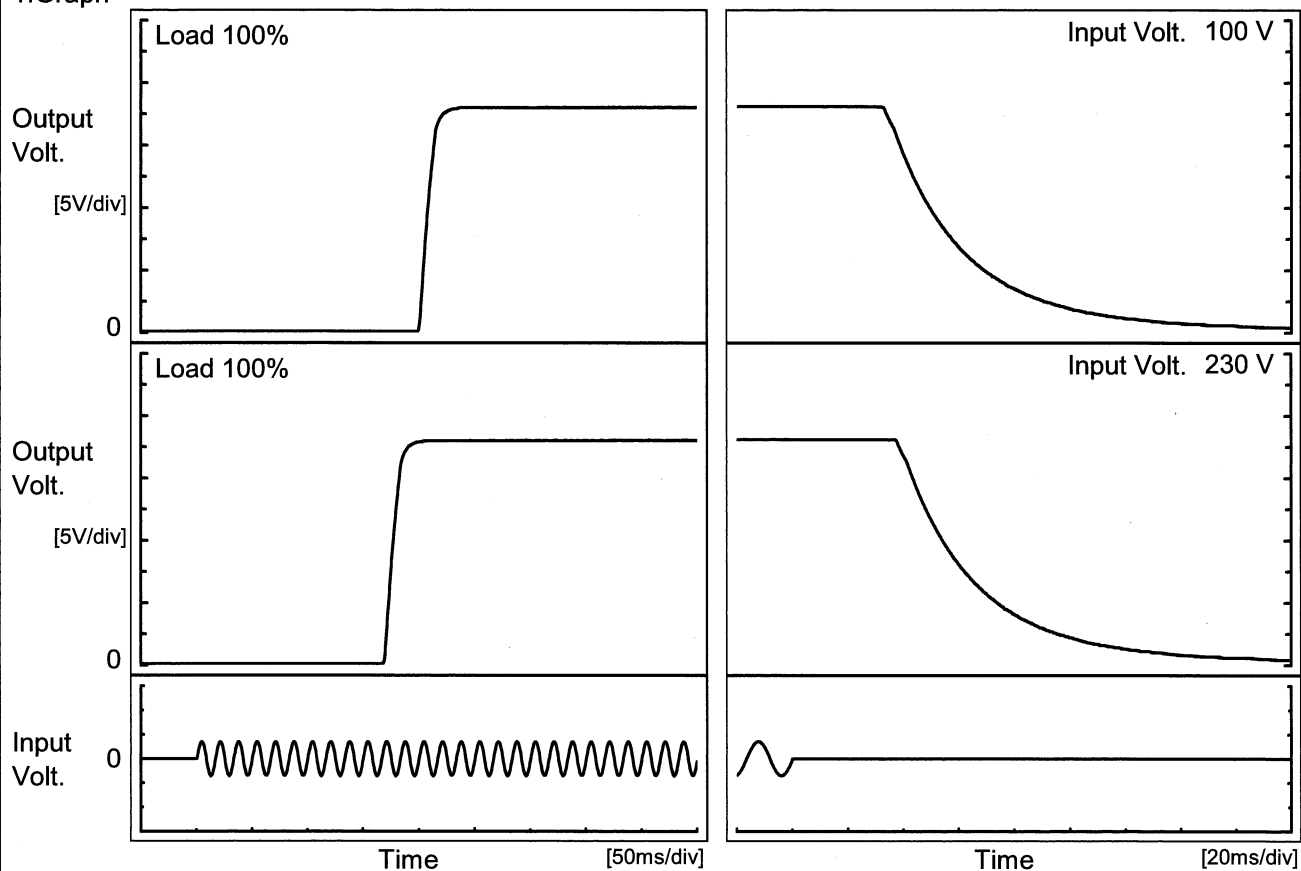


Model	LFP100F-36-Y		
Item	Time Lapse Drift	Temperature	25°C
Object	+36V2.8A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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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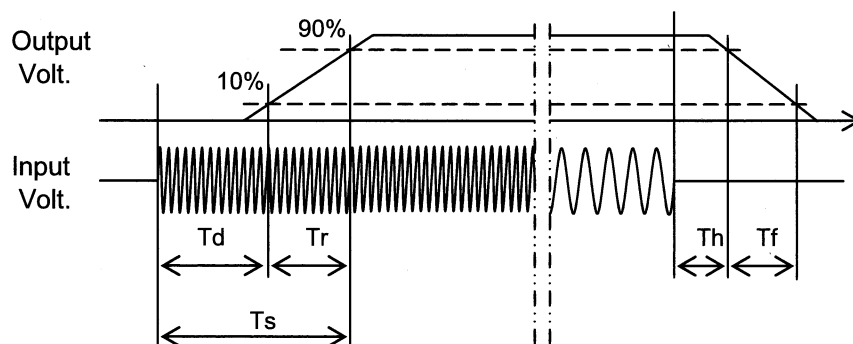
Model	LFP100F-36-Y	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V2.8A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		202.0	13.5	215.5	36.6	63.3
230 V		170.8	13.8	184.6	41.3	63.7



Model	LFP100F-36-Y																																		
Item	Hold-Up Time	Temperature	25°C																																
Object	+36V2.8A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<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><div>Hold-Up Time [ms]</div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div><div>Input Voltage [V]</div></div> <div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note: Slanted line shows the range of the rated input voltage.</div></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>70</td><td>32</td></tr><tr><td>85</td><td>70</td><td>33</td></tr><tr><td>100</td><td>70</td><td>34</td></tr><tr><td>120</td><td>71</td><td>36</td></tr><tr><td>200</td><td>75</td><td>37</td></tr><tr><td>230</td><td>77</td><td>38</td></tr><tr><td>264</td><td>79</td><td>40</td></tr><tr><td>280</td><td>81</td><td>41</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	75	70	32	85	70	33	100	70	34	120	71	36	200	75	37	230	77	38	264	79	40	280	81	41	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
75	70	32																																	
85	70	33																																	
100	70	34																																	
120	71	36																																	
200	75	37																																	
230	77	38																																	
264	79	40																																	
280	81	41																																	
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Model	LFP100F-36-Y																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+36V2.8A	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>		<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>0.40</td><td>188</td><td>223</td><td>230</td></tr><tr><td>0.80</td><td>97</td><td>122</td><td>123</td></tr><tr><td>1.20</td><td>63</td><td>82</td><td>87</td></tr><tr><td>1.60</td><td>48</td><td>64</td><td>64</td></tr><tr><td>2.00</td><td>39</td><td>52</td><td>53</td></tr><tr><td>2.40</td><td>34</td><td>43</td><td>45</td></tr><tr><td>2.80</td><td>32</td><td>36</td><td>38</td></tr><tr><td>3.08</td><td>32</td><td>32</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	-	-	-	0.40	188	223	230	0.80	97	122	123	1.20	63	82	87	1.60	48	64	64	2.00	39	52	53	2.40	34	43	45	2.80	32	36	38	3.08	32	32	31	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
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Note: Slanted line shows the range of the rated load current.																																																						

Model	LFP100F-36-Y																																								
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																																							
Object	+36V2.8A																																								
1.Graph		2.Values																																							
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <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">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>39</td><td>47</td></tr><tr><td>-10</td><td>39</td><td>47</td></tr><tr><td>0</td><td>39</td><td>47</td></tr><tr><td>10</td><td>39</td><td>47</td></tr><tr><td>20</td><td>39</td><td>47</td></tr><tr><td>25</td><td>39</td><td>47</td></tr><tr><td>30</td><td>39</td><td>47</td></tr><tr><td>40</td><td>39</td><td>47</td></tr><tr><td>50</td><td>39</td><td>47</td></tr><tr><td>60</td><td>39</td><td>47</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	39	47	-10	39	47	0	39	47	10	39	47	20	39	47	25	39	47	30	39	47	40	39	47	50	39	47	60	39	47	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
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Model	LFP100F-36-Y																																														
Item	Overcurrent Protection	Temperature	25°C																																												
Object	+36V2.8A	Testing Circuitry	Figure A																																												
1.Graph		2.Values																																													
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 230V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 30V to 0V.</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. 230[V]</th></tr><tr><td>34.2</td><td>6.73</td><td>6.68</td></tr><tr><td>32.4</td><td>6.75</td><td>6.70</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><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><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>		Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 230[V]	34.2	6.73	6.68	32.4	6.75	6.70	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																														
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Model		LFP100F-36-Y
Item		Overvoltage Protection
Object		+36V2.8A

1.Graph

—△—

Input Volt. 100V

---□---

Input Volt. 230V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

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

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 230[V]
-20	44.67	44.67
-10	45.07	45.07
0	45.48	45.36
10	45.78	45.78
20	46.19	46.19
25	46.36	46.36
30	46.48	46.48
40	46.95	46.89
50	47.30	47.18
60	47.65	47.65
--	-	-

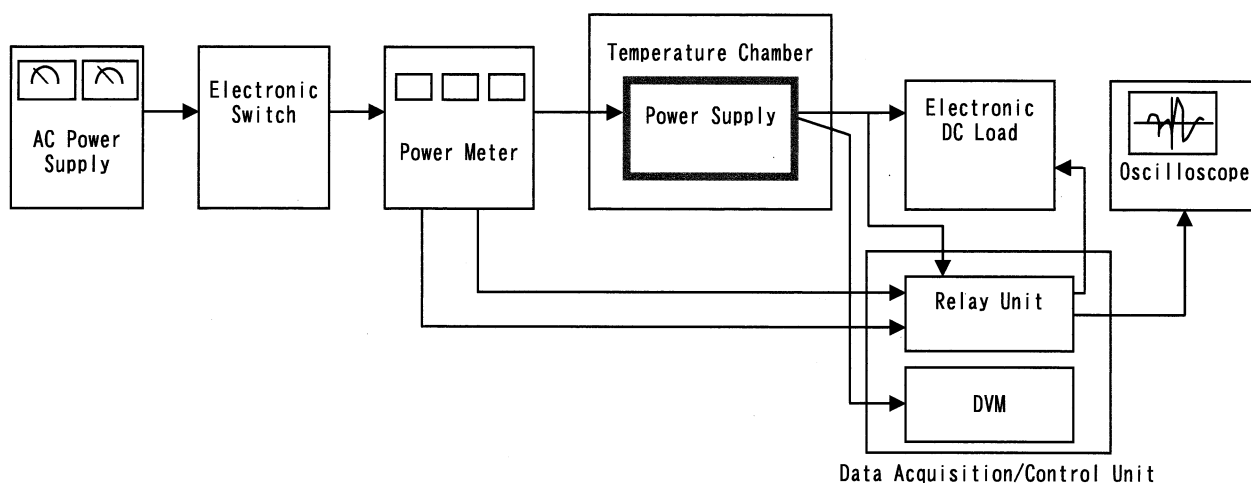


Figure A

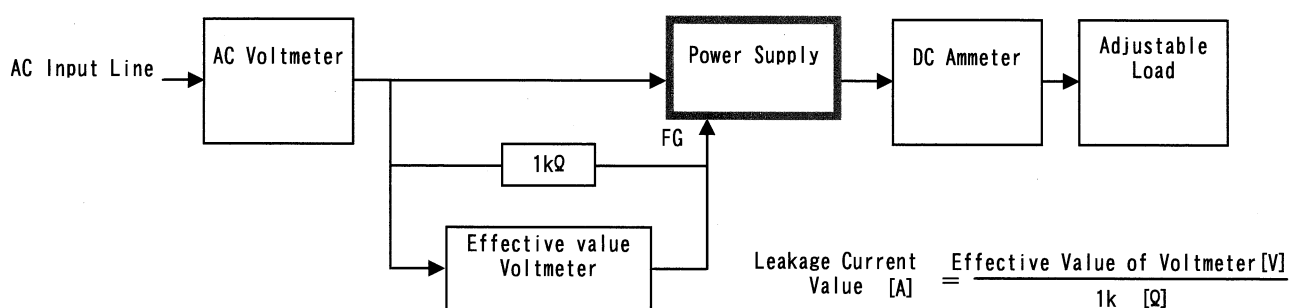


Figure B (DEN-AN)

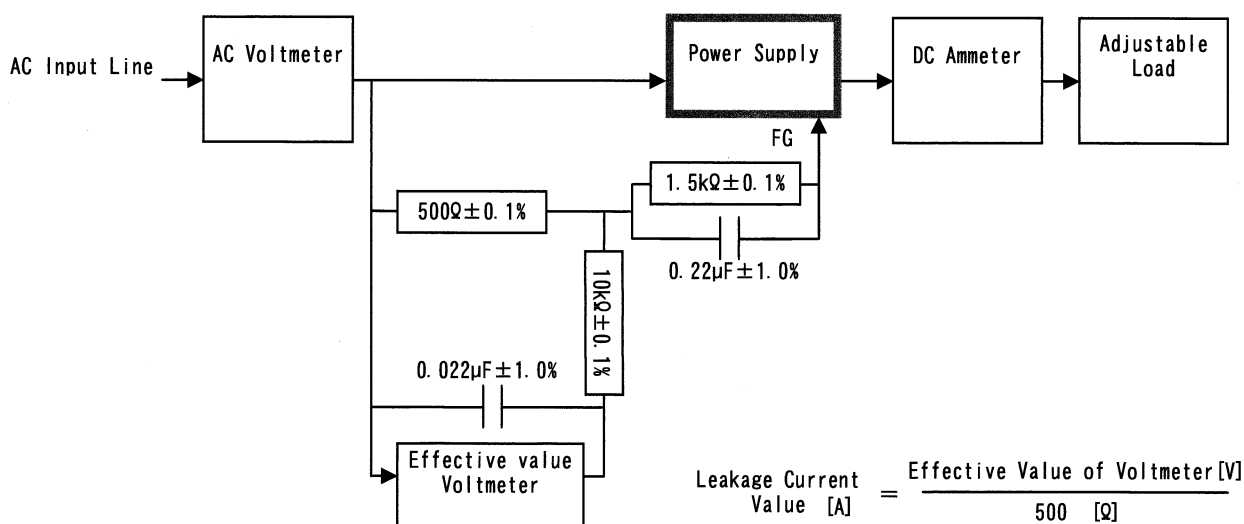


Figure B (IEC60950-1)

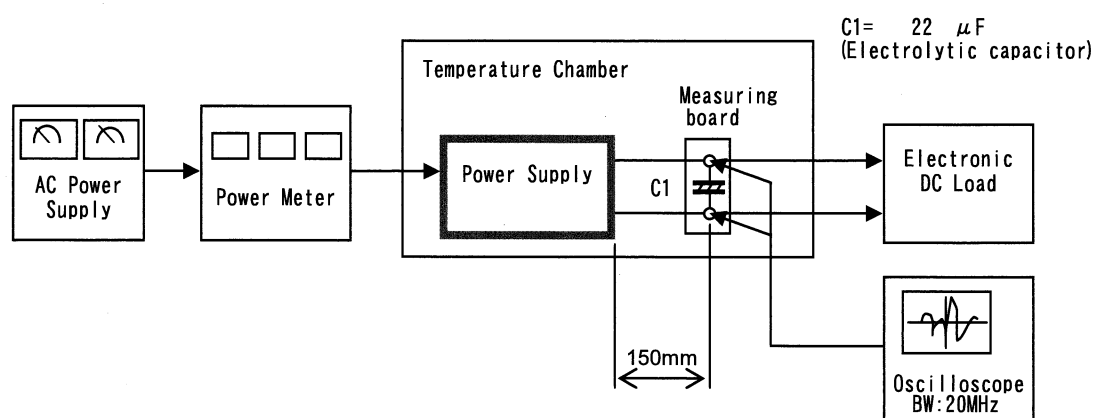


Figure C