

TEST DATA OF WBA350B-36

Regulated DC Power Supply
July 6, 2021

Approved by : Takashi Kajii
Design Manager

Prepared by : Takashi Nishimura
Design Engineer

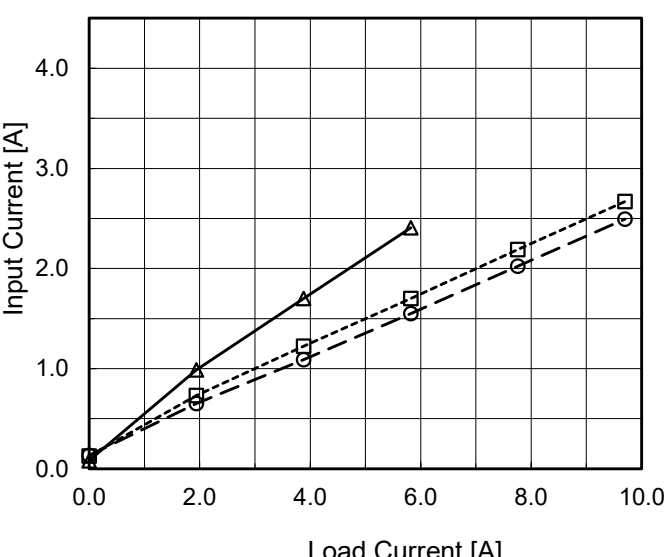
COSEL CO.,LTD.

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Model		WBA350B-36		Temperature 25°C Testing Circuitry Figure A																																																		
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1.Graph		<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div><div>Input Volt. 170V</div><div>Input Volt. 277V</div><div>Input Volt. 305V</div></div></div> <div></div>		2.Values																																																		
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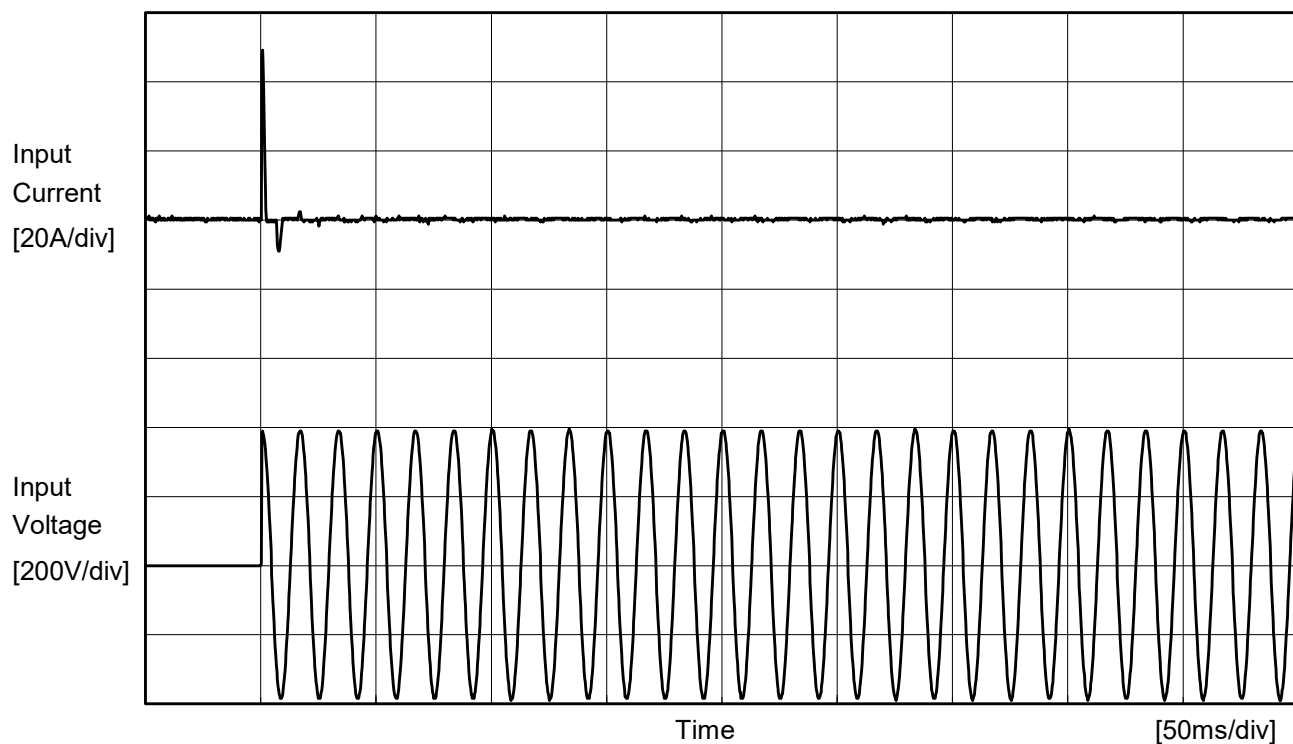
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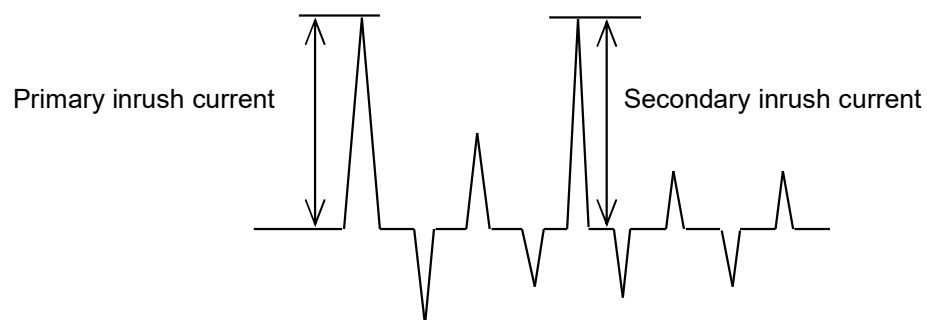
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Model	WBA350B-36	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		



Input Voltage 277 V
Frequency 60 Hz
Load 100 %

Primary inrush current 49.2 A





Model		WBA350B-36	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			170 [V]	277 [V]	305 [V]	
DEN-AN	Figure C-1	Both phases	0.18	0.30	0.32	Operation
		One of phases	0.34	0.57	0.62	Stand by
IEC62368-1	Figure C-2	Both phases	0.17	0.29	0.32	Operation
		One of phases	0.32	0.55	0.61	Stand by
	Figure C-3	Both phases	0.17	0.29	0.32	Operation
		One of phases	0.33	0.55	0.61	Stand by

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

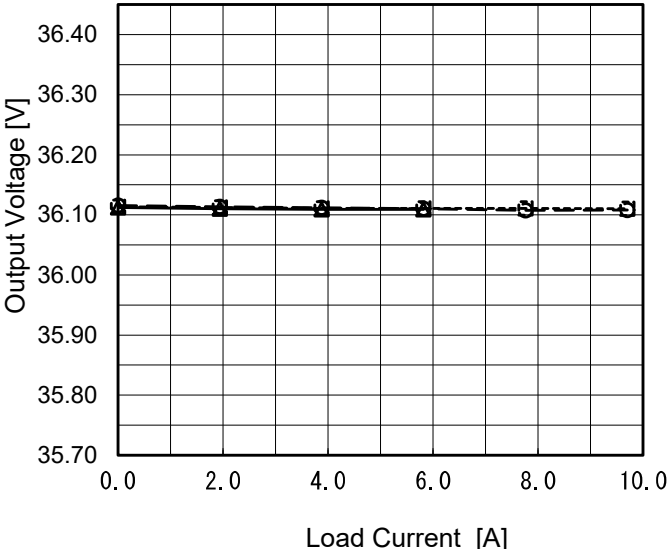
2.Condition

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



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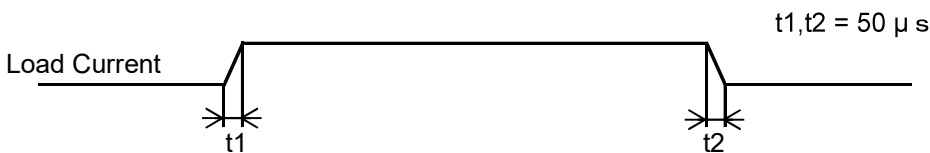
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<div><div>Input Voltage 277V</div><div>Load 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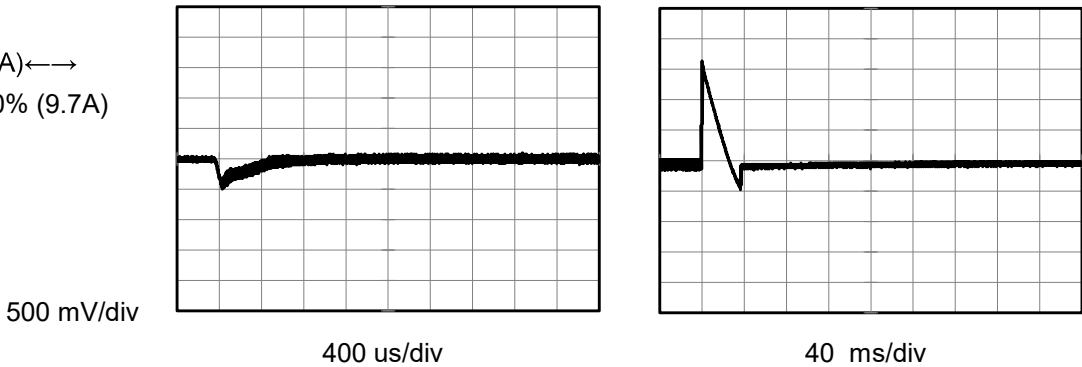


Model	WBA350B-36		
Item	Dynamic Load Response	Temperature	25°C
Object	+36V9.7A	Testing Circuitry	Figure A

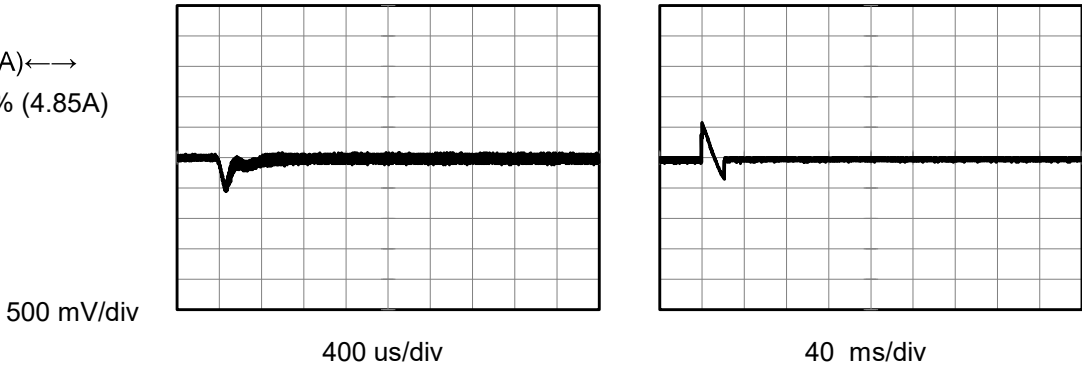
Input Volt. 277 V
Cycle 2000 ms



Min.Load (0A) ←→
Load 100% (9.7A)



Min.Load (0A) ←→
Load 50% (4.85A)

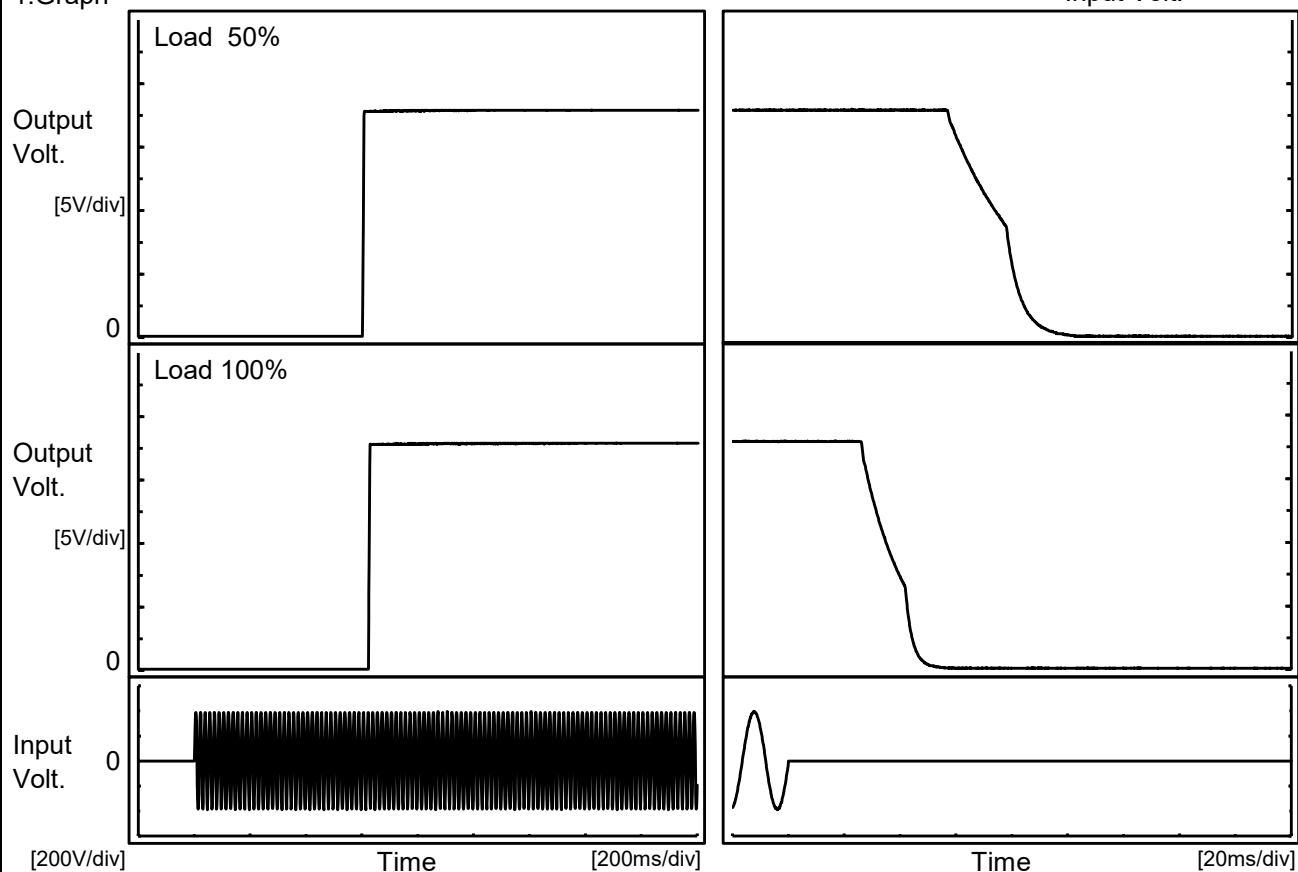


COSEL

Model	WBA350B-36	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V9.7A		

1.Graph

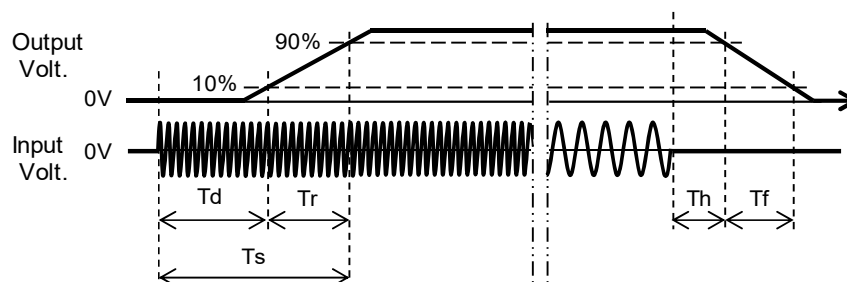
Input Volt. 277 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	602.0	4.0	606.0	59.1	26.5
100 %	623.0	5.0	628.0	27.1	17.8



COSEL

Model

WBA350B-36

Item

Hold-Up Time

Object

+36V9.7A

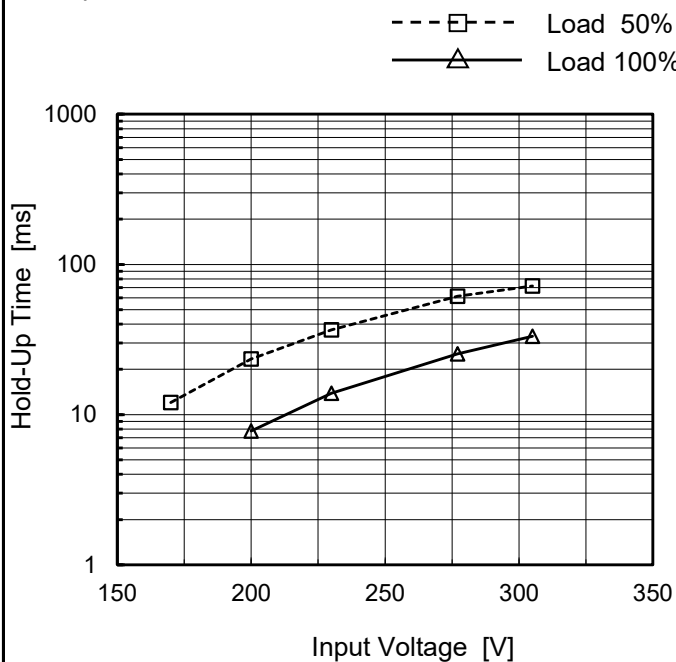
Temperature

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.

2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
170	12	-
200	23	8
230	37	14
277	61	25
305	72	33
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model		WBA350B-36		Temperature 25°C																																																		
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																		
Object		+36V9.7A																																																				
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>Input Volt. 170V</div><div>Input Volt. 277V</div><div>Input Volt. 305V</div></div></div><div></div></div> <table><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 277[V]</th><th>Input Volt. 305[V]</th></tr></thead><tbody><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.94</td><td>35</td><td>148</td><td>180</td></tr><tr><td>3.88</td><td>15</td><td>71</td><td>93</td></tr><tr><td>5.82</td><td>6</td><td>46</td><td>58</td></tr><tr><td>7.76</td><td>-</td><td>34</td><td>45</td></tr><tr><td>9.70</td><td>-</td><td>26</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table>				Load Current [A]	Time [ms]			Input Volt. 170[V]	Input Volt. 277[V]	Input Volt. 305[V]	0.00	-	-	-	1.94	35	148	180	3.88	15	71	93	5.82	6	46	58	7.76	-	34	45	9.70	-	26	35	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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COSEL

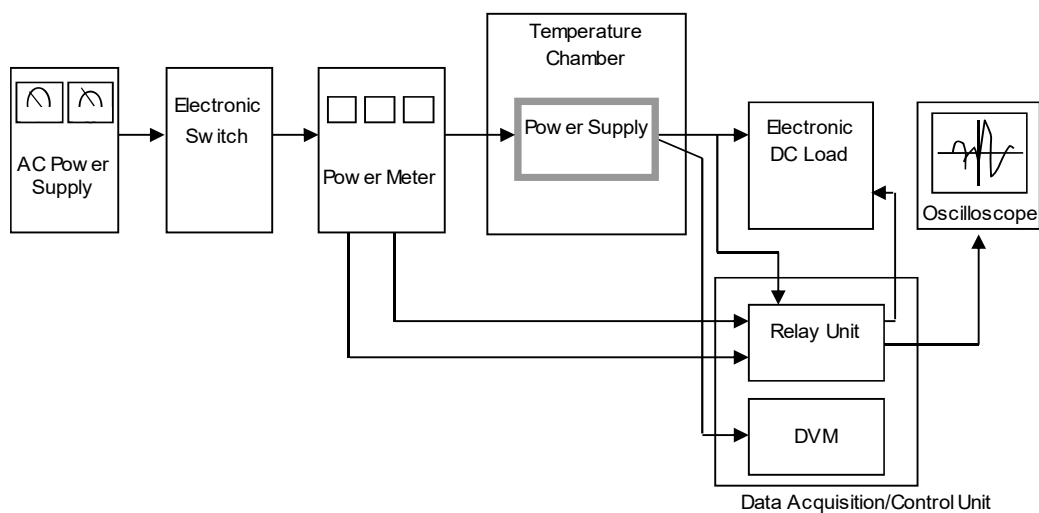


Figure A

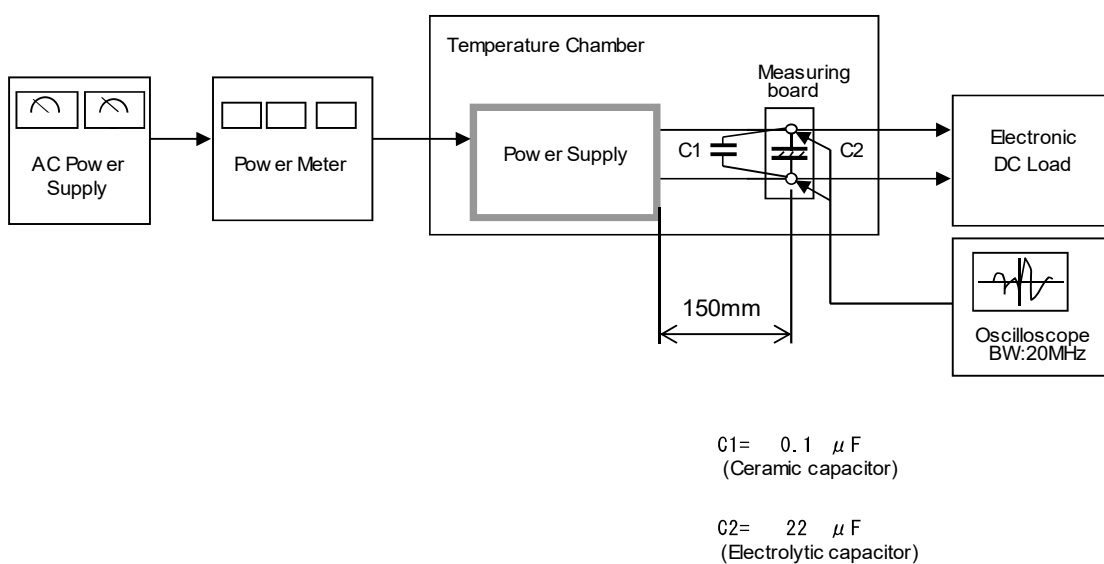


Figure B

