

TEST DATA OF WDA60F-24

Regulated DC Power Supply
August 17, 2022

Approved by : Takashi Kajii
Design Manager

Prepared by : Jeonghoon Yi
Design Engineer

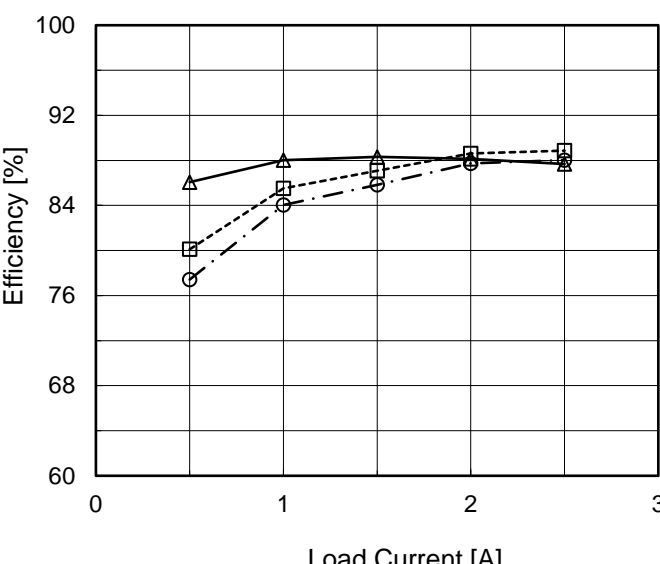
COSEL CO.,LTD.

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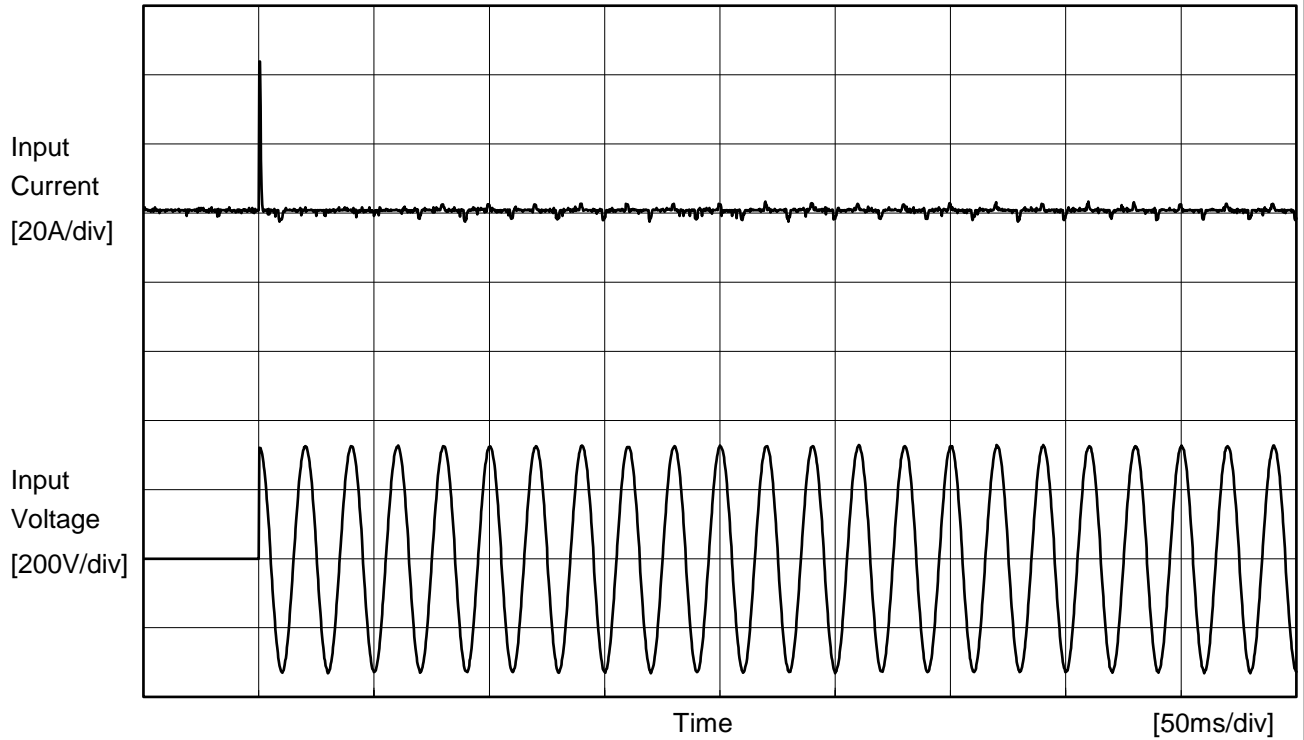
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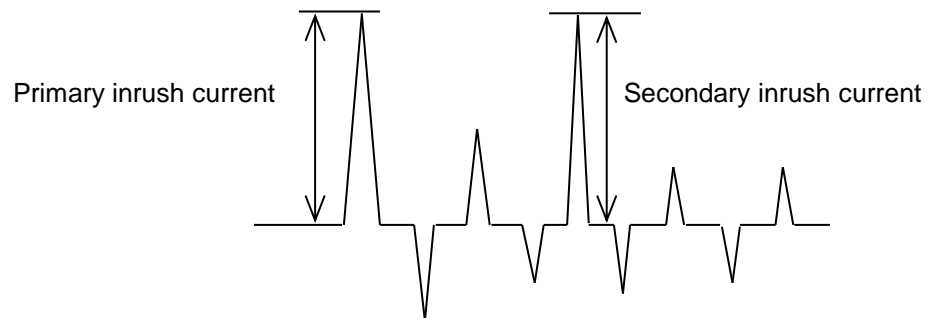
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Model	WDA60F-24	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	+24V2.5A	



Input Voltage 230 V
Frequency 50 Hz
Load 100 %

Primary inrush current 43.4 A
Secondary inrush current 0.0 A



Model	WDA60F-24	Temperature 25°C Testing Circuitry Figure C
Item	Leakage Current	
Object	+24V2.5A	

1.Results

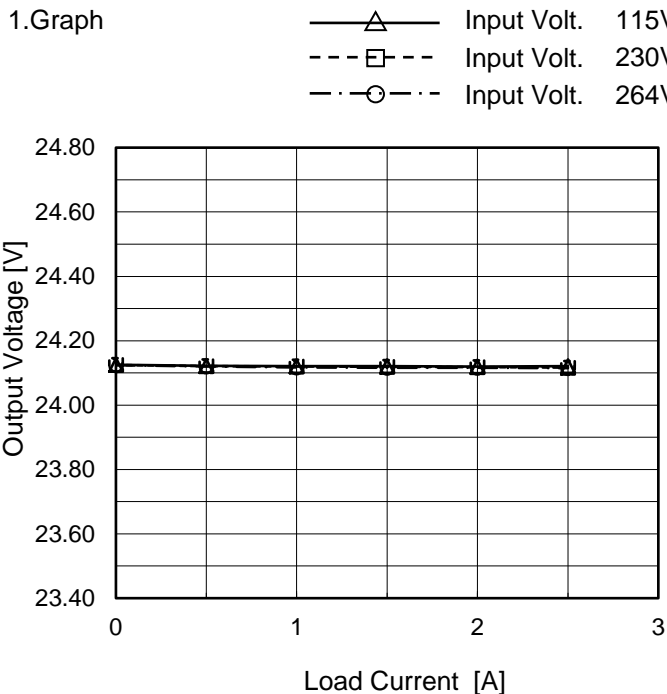
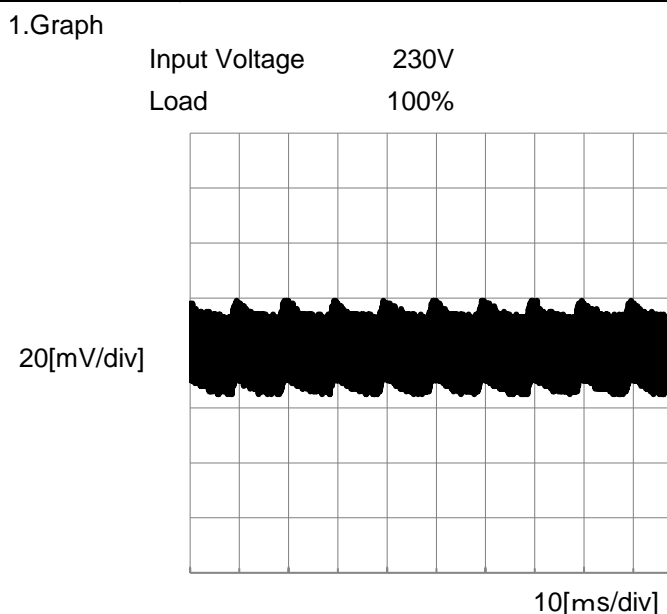
Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			115 [V]	240 [V]	264 [V]	
DEN-AN	Figure C-1	Both phases	0.14	0.32	0.35	Operation
		One of phases	0.26	0.58	0.64	Stand by
IEC62368-1	Figure C-2	Both phases	0.14	0.30	0.33	Operation
		One of phases	0.25	0.58	0.60	Stand by
	Figure C-3	Both phases	0.13	0.29	0.33	Operation
		One of phases	0.24	0.54	0.60	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	WDA60F-24																																
Item	Line Regulation	Temperature	25°C																														
		Testing Circuitry	Figure A																														
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<div><div><div>Input Voltage</div><div>230V</div></div><div><div>Load</div><div>100%</div></div></div> 																																																										

- 7 -

BC-11898

Model	WDA60F-24	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+24V2.5A		

Input Volt. 230 V
Cycle 1000 ms

$t_1, t_2 = 50 \mu s$

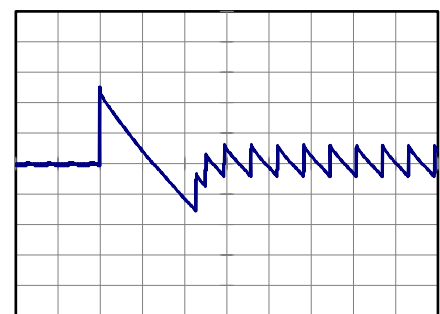
Load Current



Min.Load (0A) ←→
Load 100% (2.5A)

100 mV/div

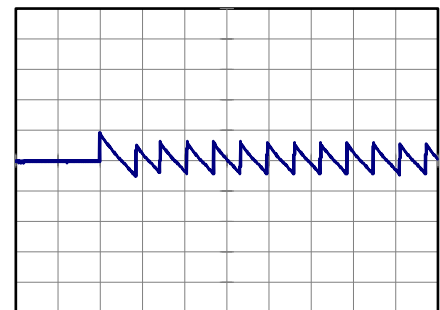
20 ms/div



Min.Load (0A) ←→
Load 50% (1.25A)

100 mV/div

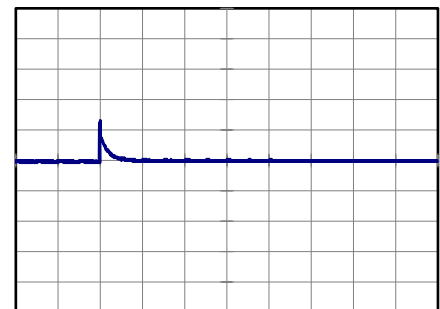
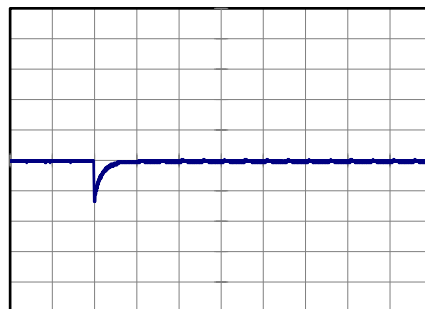
20 ms/div



Load 50% (1.25A) ←→
Load 100% (2.5A)

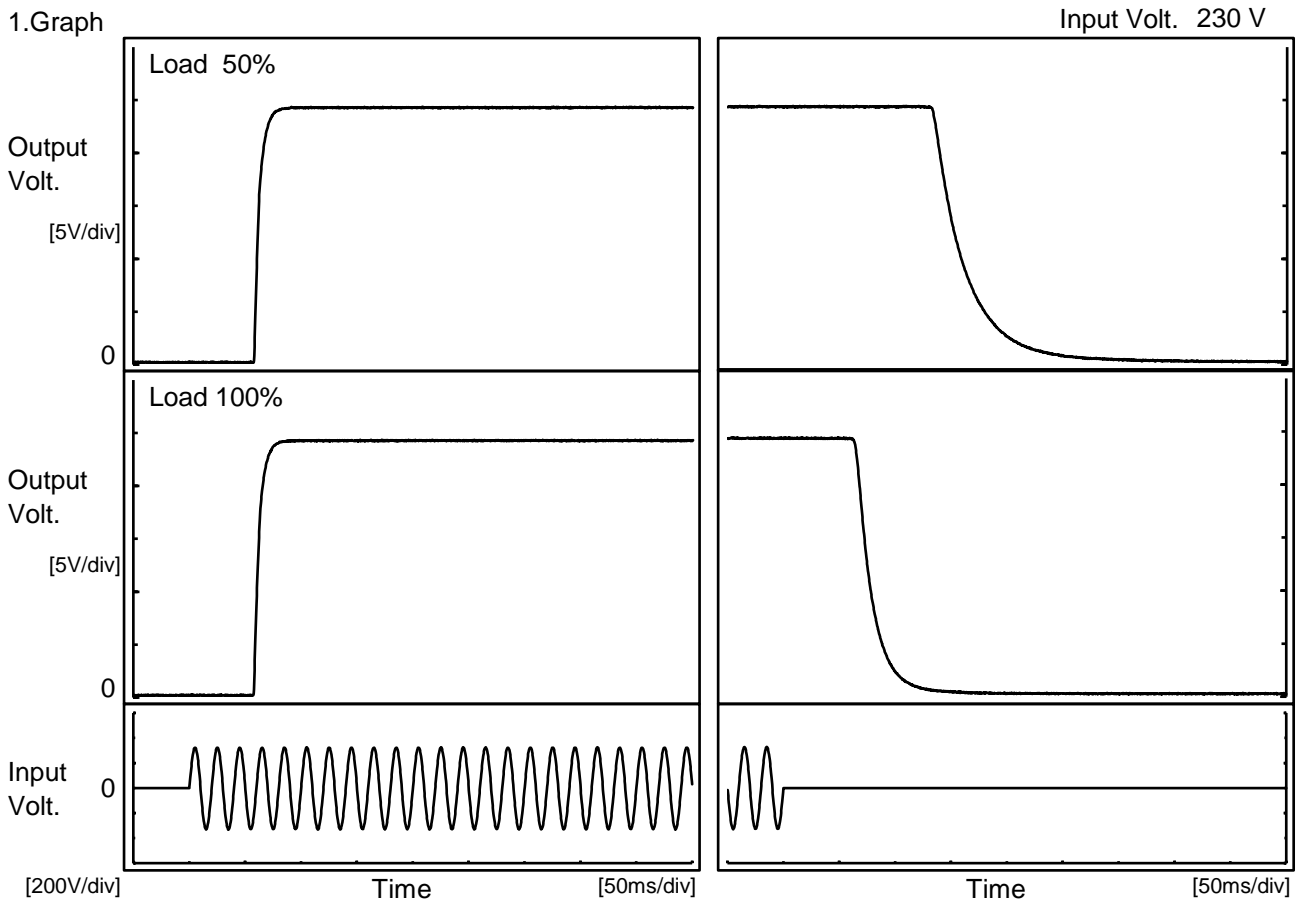
100 mV/div

20 ms/div



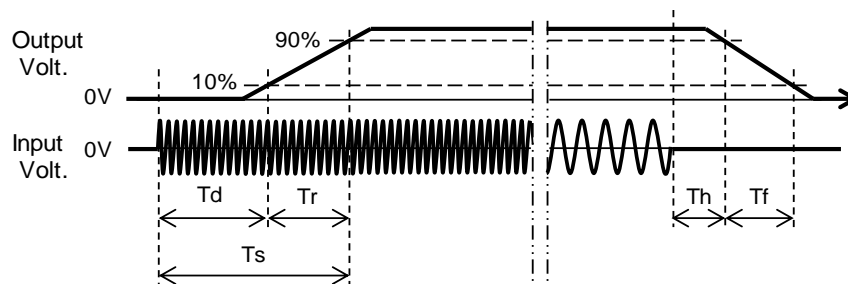
Model	WDA60F-24	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+24V2.5A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	58.8	9.8	68.6	137.0	63.8
100 %	58.5	9.8	68.3	66.5	32.3



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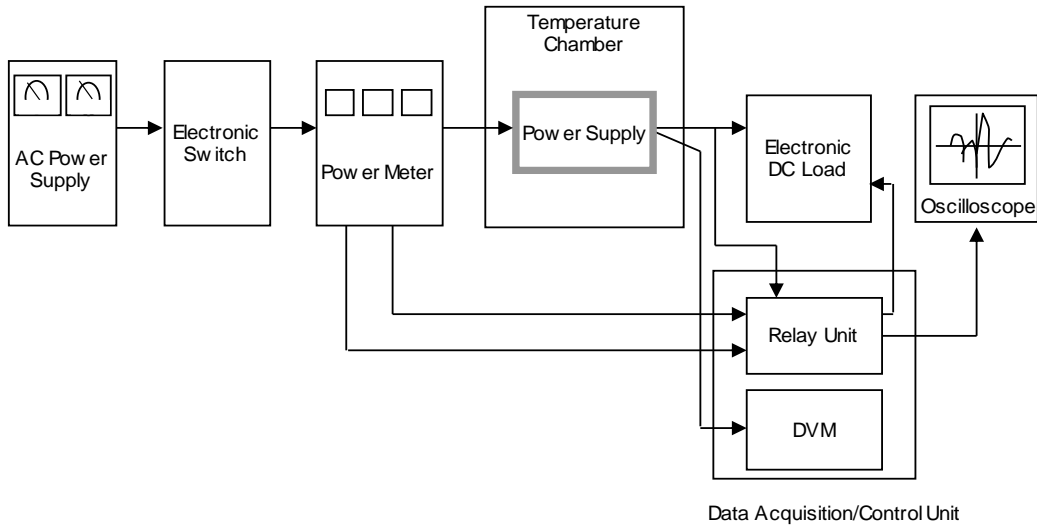


Figure A

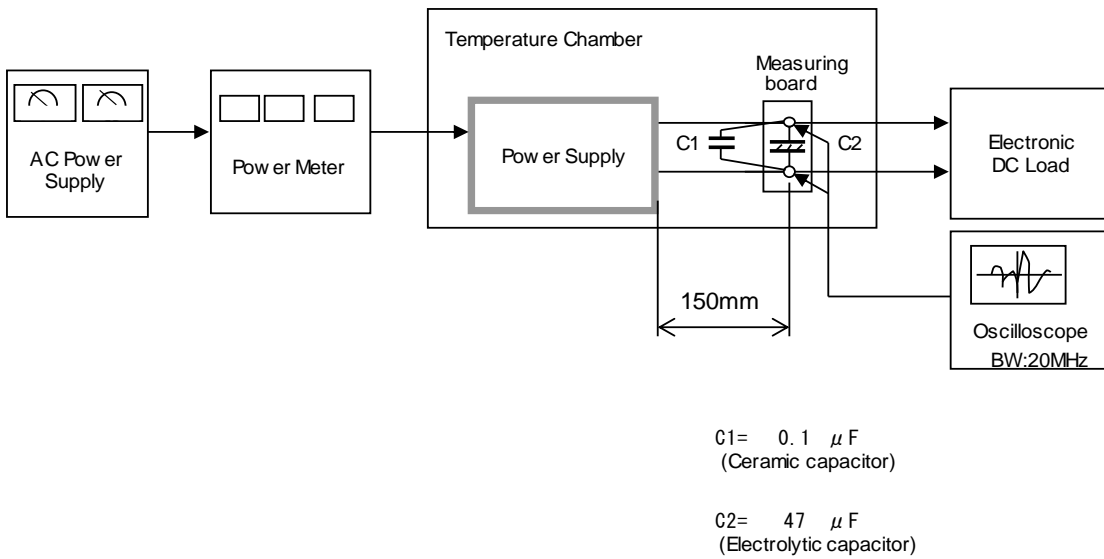


Figure B

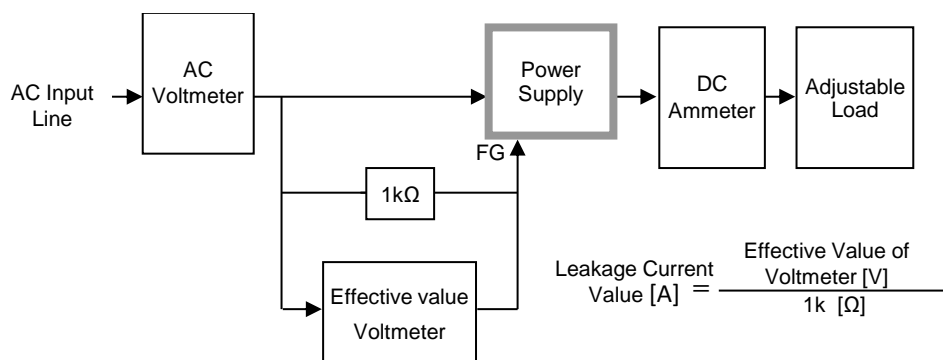


Figure C-1 (DEN-AN)

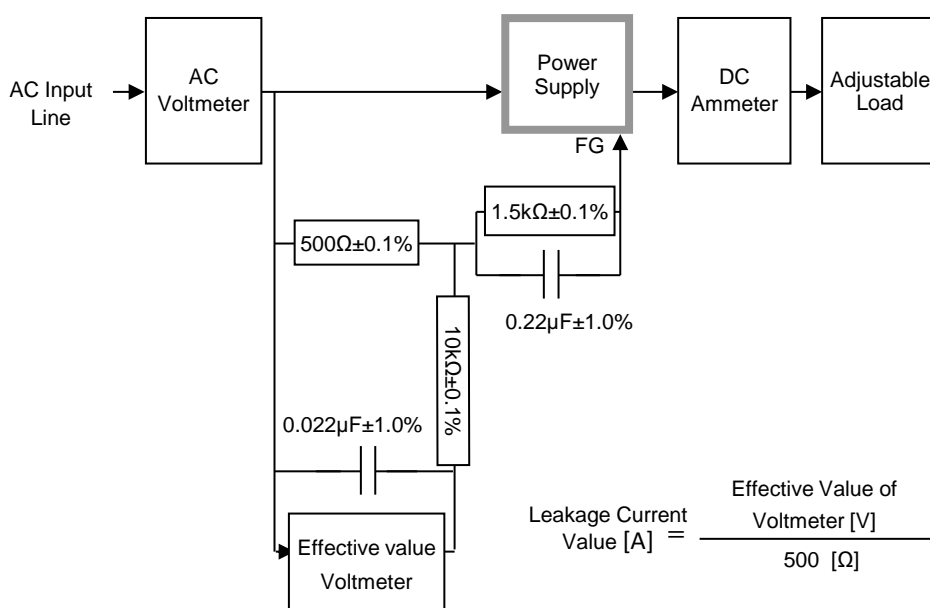


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

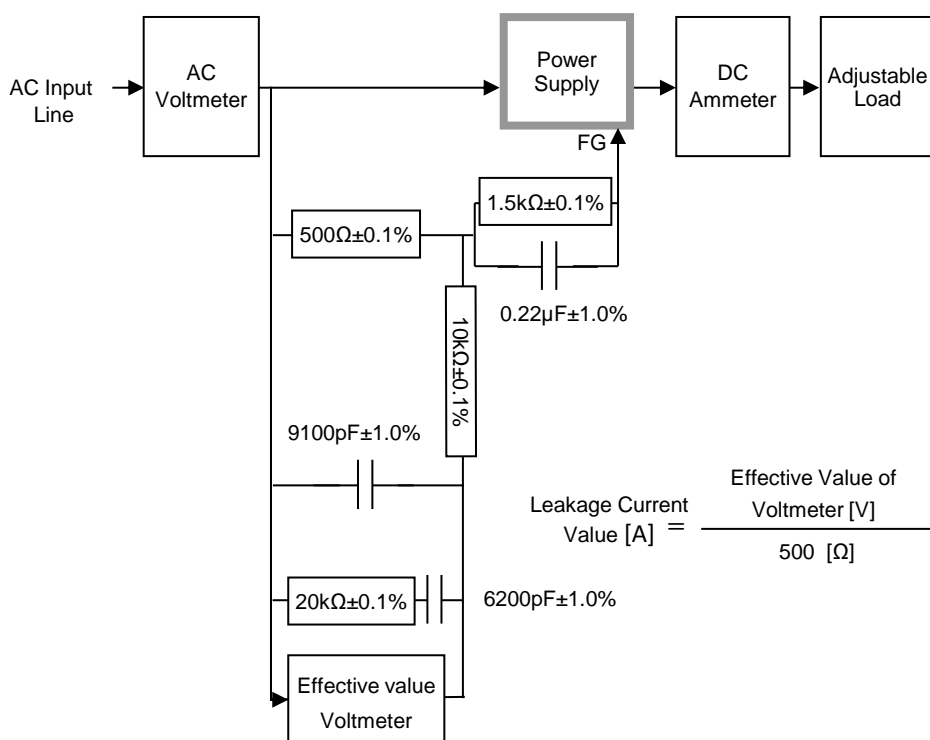


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)