

TEST DATA OF UMPS30F12-E

Regulated DC Power Supply
July 19, 2024

Approved by : Takashi Kajii
Design Manager

Prepared by : Kyosuke Kurata
Design Engineer

COSEL CO.,LTD.

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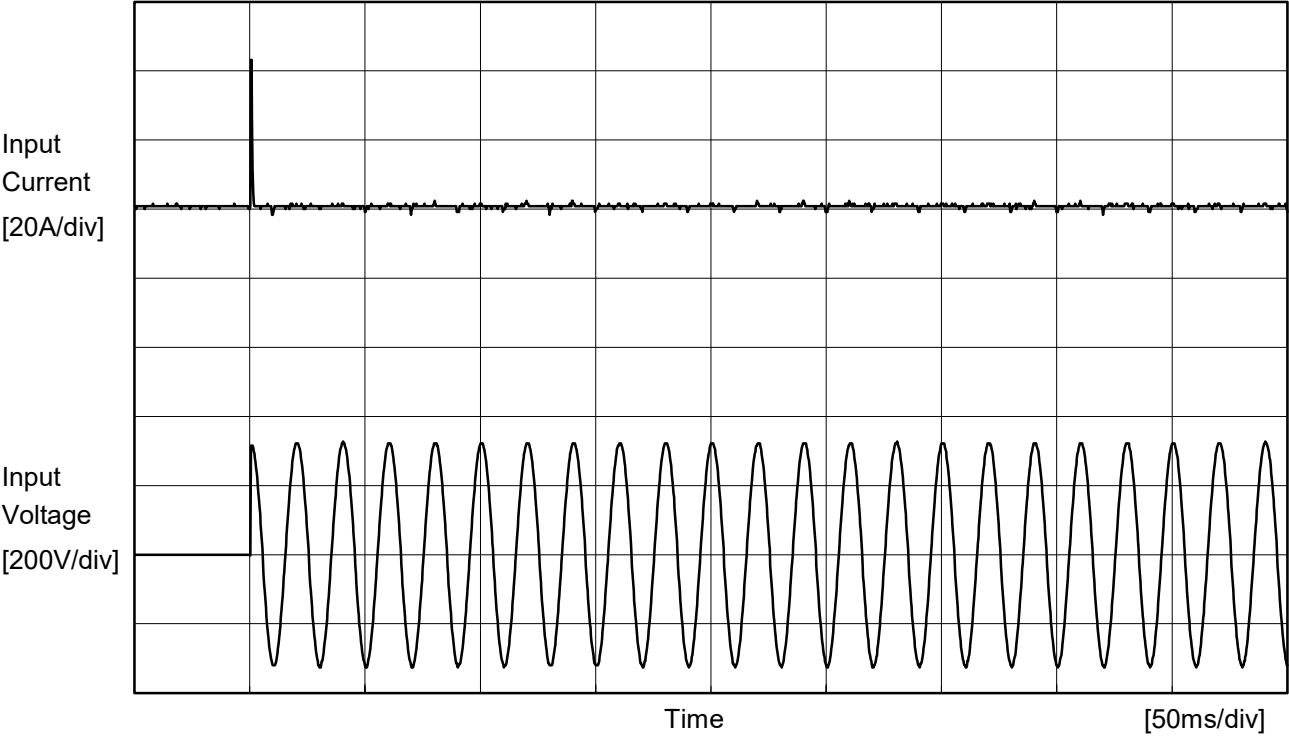
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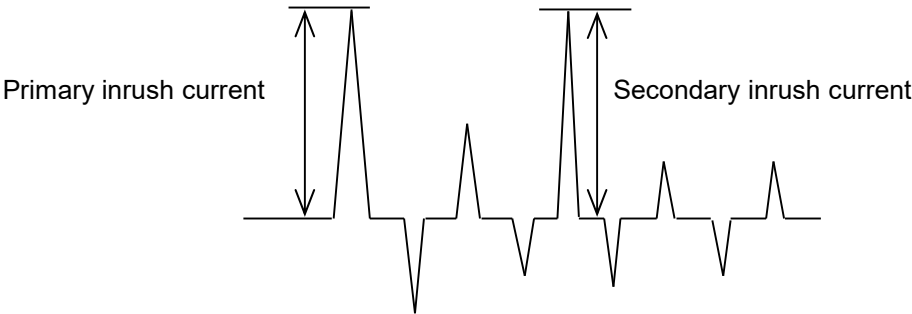


Model		UMPS30F12-E	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		+12V2.5A	



Input Voltage 230 V
Frequency 50 Hz
Load 100 %

Primary inrush current 42.9 A
Secondary inrush current 2.1 A





COSEL		Temperature 25°C Testing Circuitry Figure C
Model	UMPS30F12-E	
Item	Leakage Current	
Object	+12V2.5A	

1.Results

[μA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			115 [V]	230 [V]	264 [V]	
IEC60601-1	Figure C-1	Both phases	1.54	3.95	4.57	Operation
		One of phases	2.59	6.23	7.16	Stand by
IEC62368-1	Figure C-2	Both phases	1.00	3.58	4.26	Operation
		One of phases	2.05	5.90	6.84	Stand by
	Figure C-3	Both phases	1.00	3.57	4.21	Operation
		One of phases	1.98	5.82	4.21	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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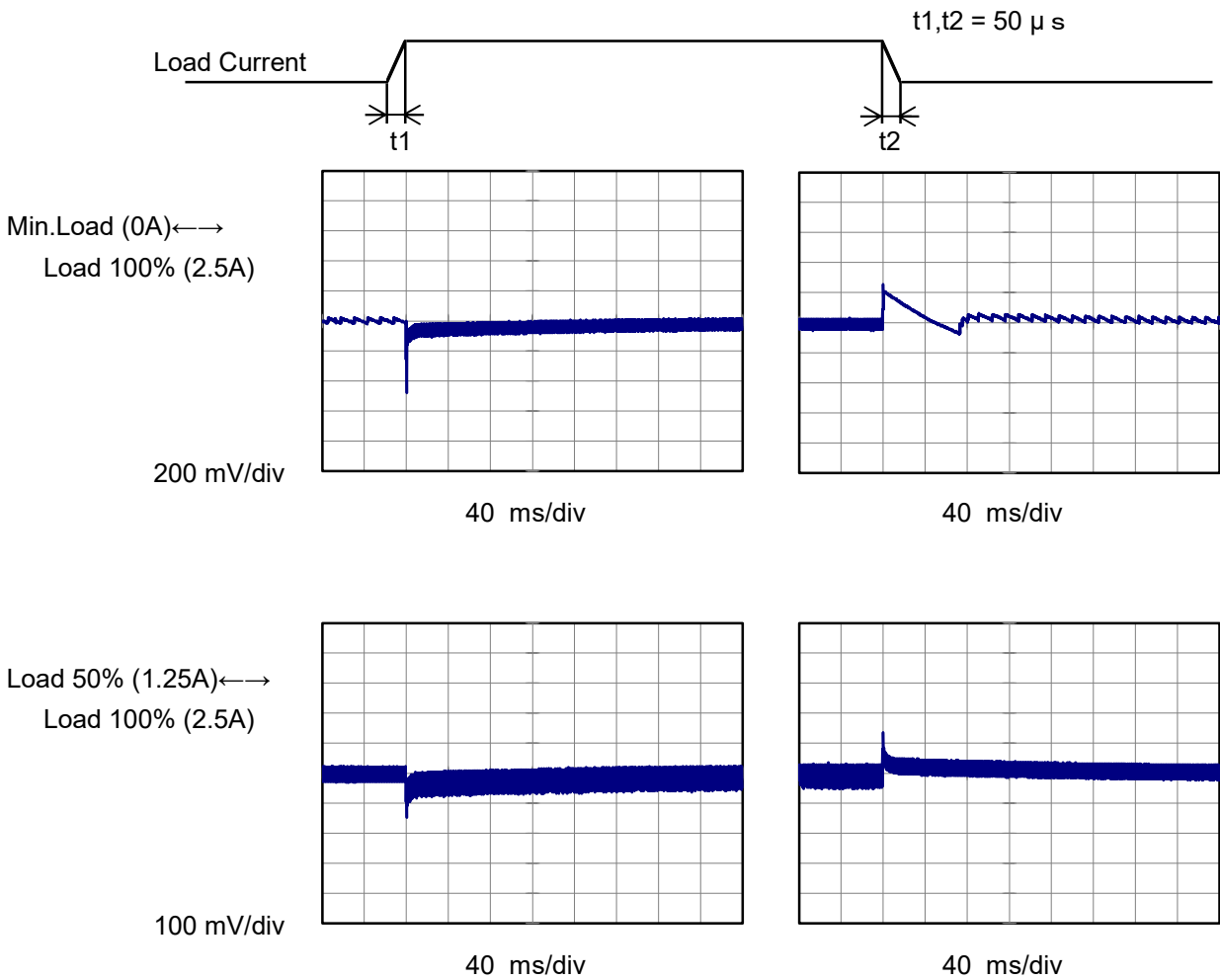
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Model	UMPS30F12-E		
Item	Dynamic Load Response	Temperature	25°C
Object	+12V2.5A	Testing Circuitry	Figure A

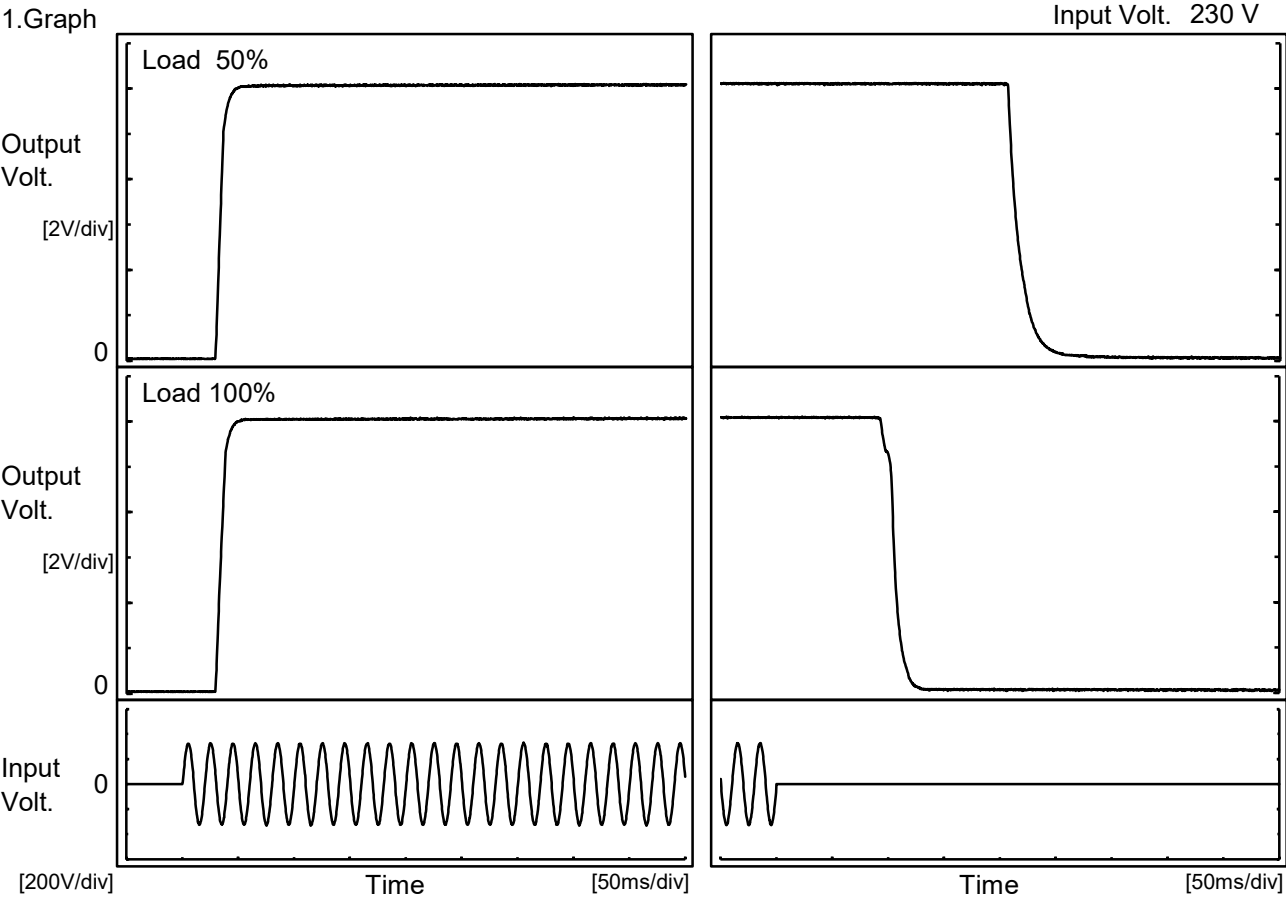
Input Volt. 230 V
Cycle 1000 ms





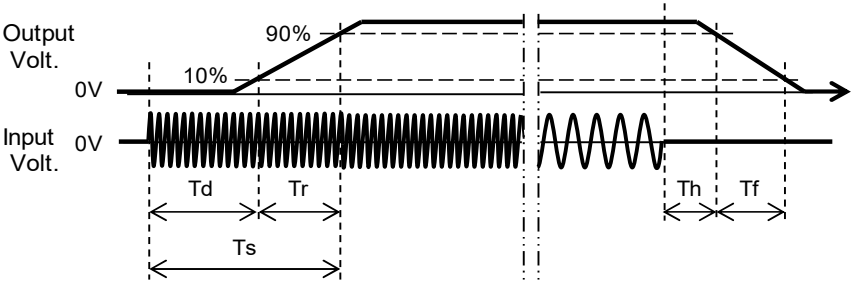
Model		UMPS30F12-E	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+12V2.5A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		30.8	8.5	39.3	208.0	23.5
100 %		30.8	9.0	39.8	97.0	18.3



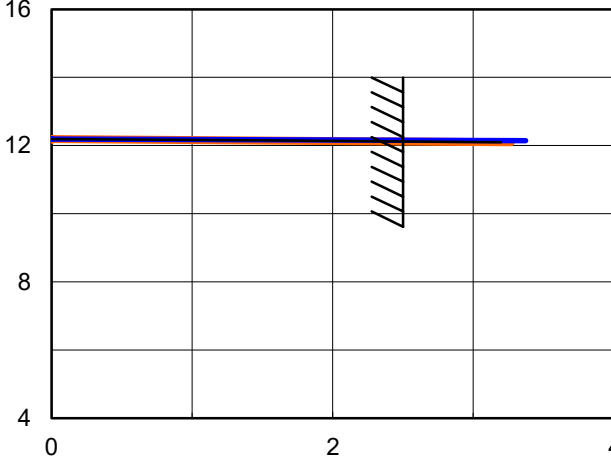


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<div><div>---□--- Load 50%</div><div>—△— Load 100%</div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p></div>																																			
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.5</td><td>123</td><td>528</td><td>707</td></tr><tr><td>1.0</td><td>59</td><td>264</td><td>352</td></tr><tr><td>1.5</td><td>38</td><td>174</td><td>234</td></tr><tr><td>2.0</td><td>26</td><td>126</td><td>172</td></tr><tr><td>2.5</td><td>17</td><td>94</td><td>128</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></table>		Load Current [A]	Time [ms]			Input Volt. 115[V]	Input Volt. 230[V]	Input Volt. 264[V]	0.0	-	-	-	0.5	123	528	707	1.0	59	264	352	1.5	38	174	234	2.0	26	126	172	2.5	17	94	128	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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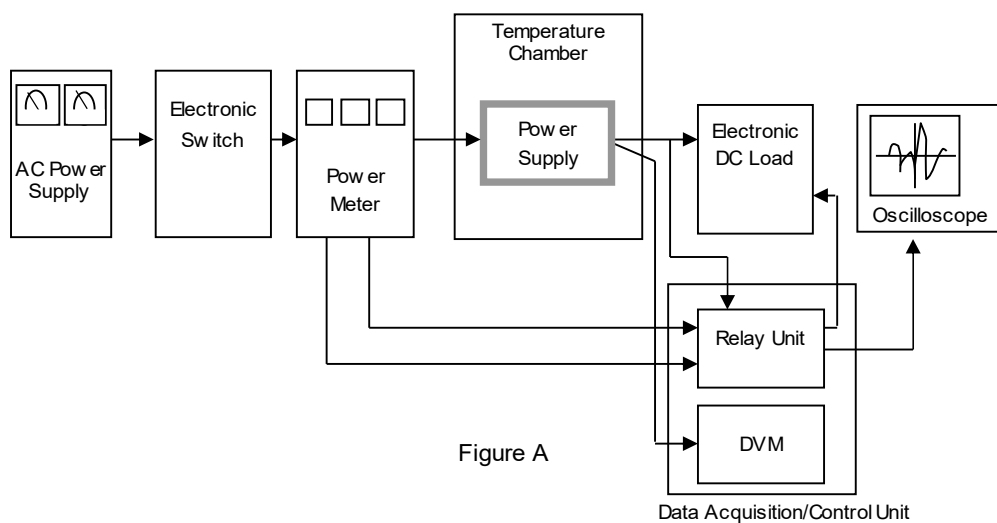


Figure A

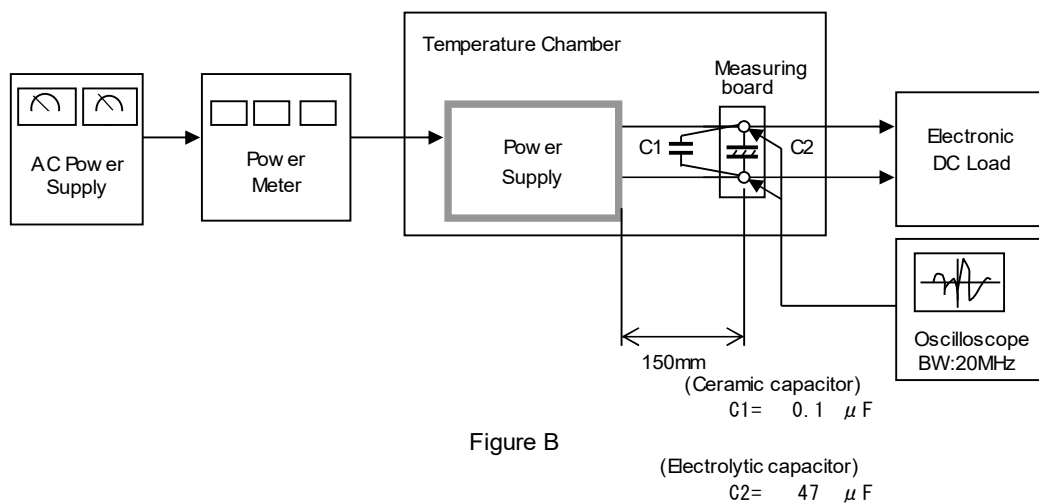


Figure B

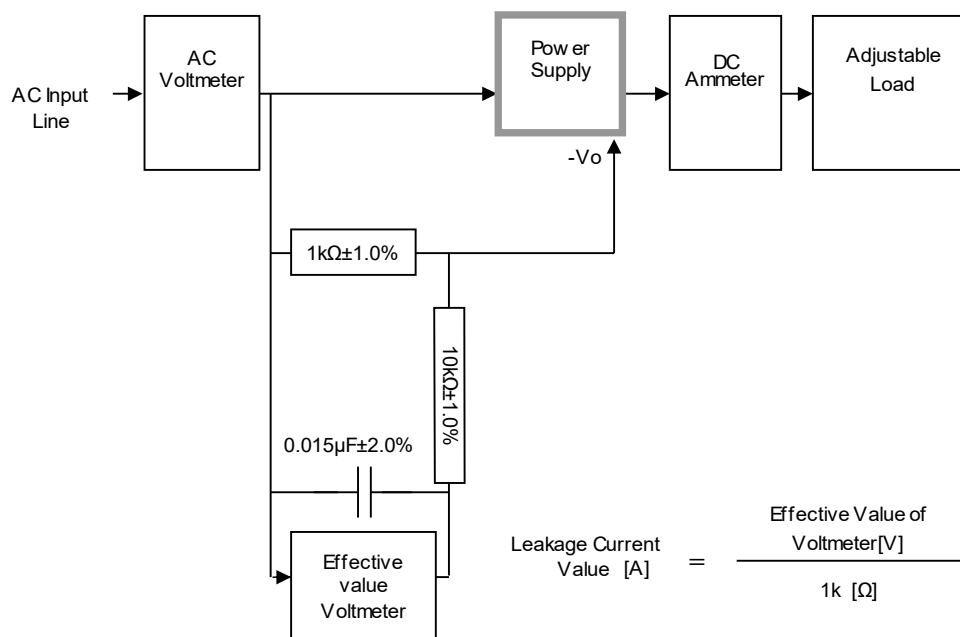


Figure C-1 (IEC60601-1)

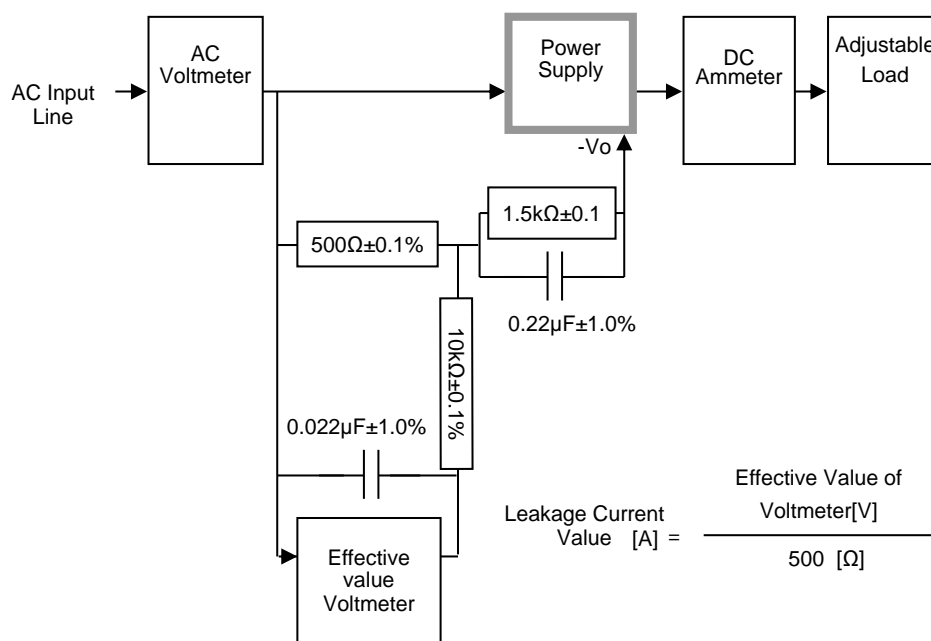


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

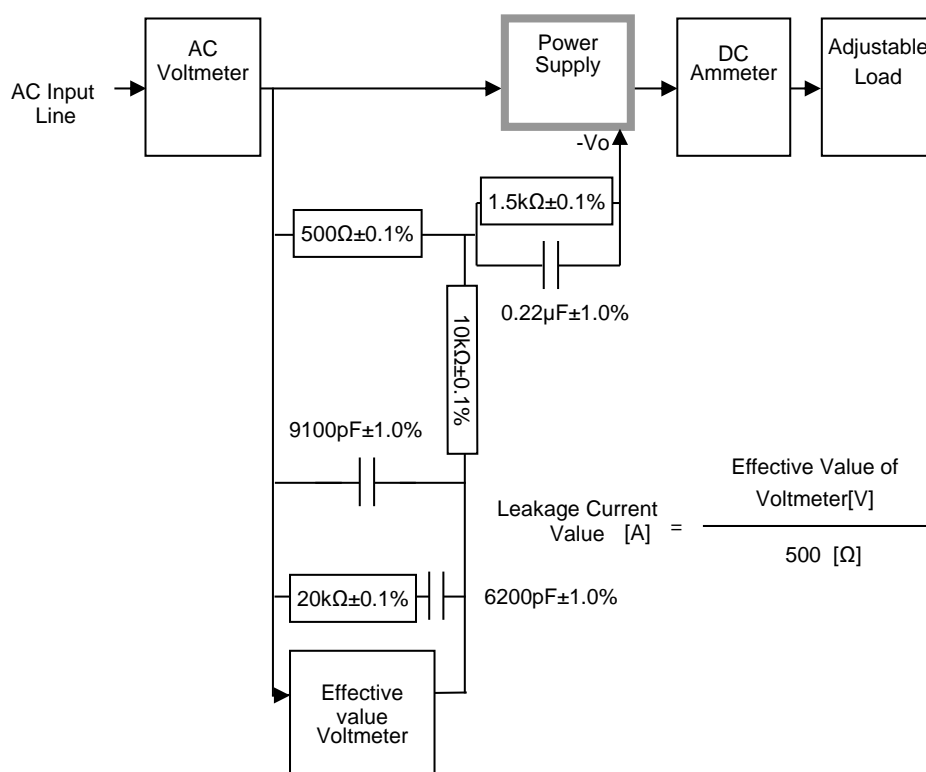


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)