

# TEST DATA OF UMCS30F-5-E

Regulated DC Power Supply  
July 23, 2024

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Design Manager

Prepared by : Kyosuke Kurata  
Design Engineer

**COSEL CO.,LTD.**

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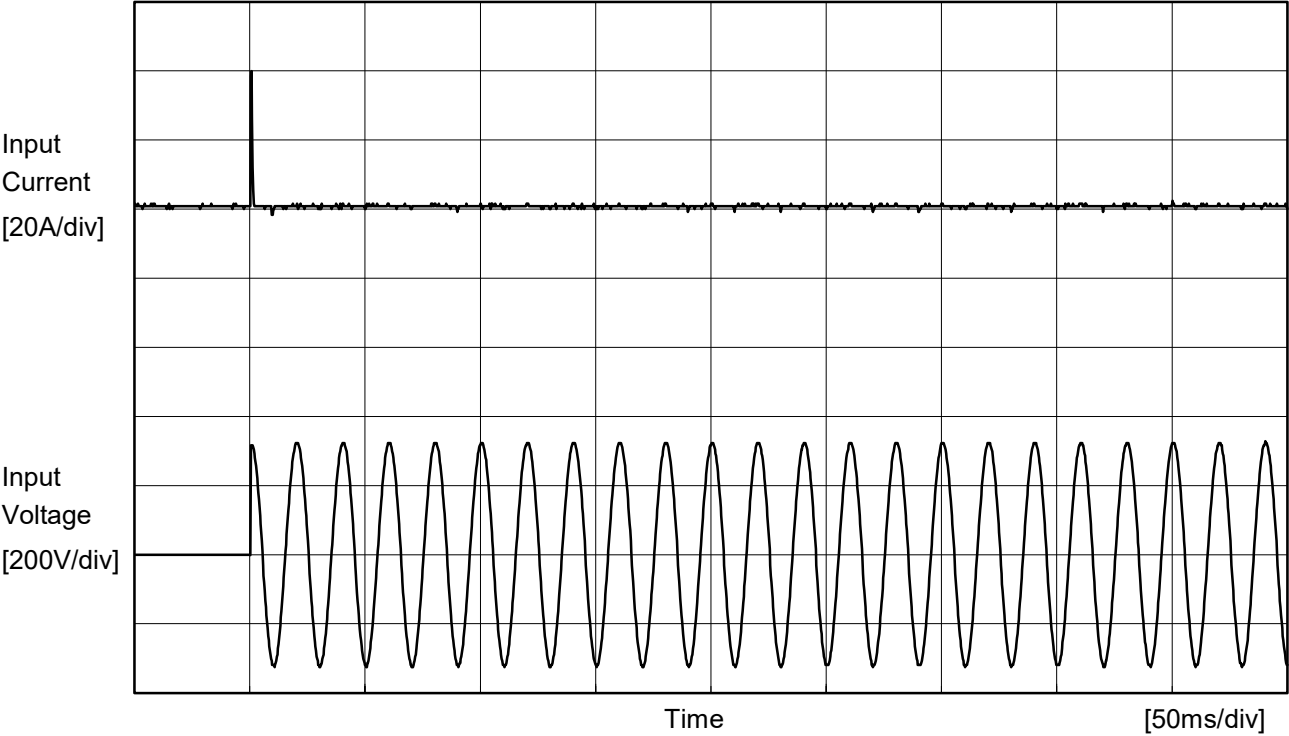
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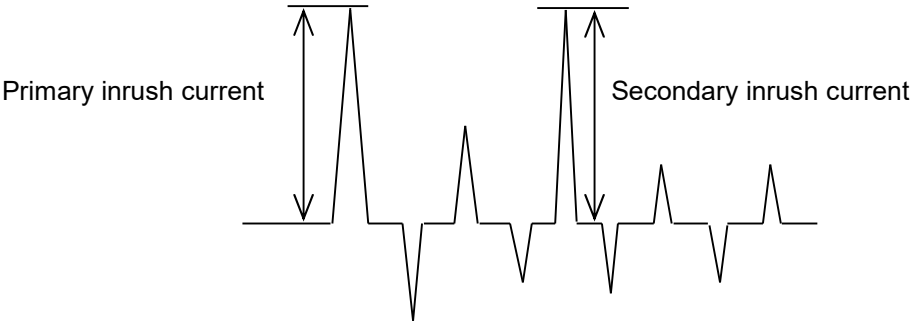
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Model		UMCS30F-5-E	
Item		Inrush Current	Temperature 25°C Testing Circuitry Figure A
Object		+5V3A	



Input Voltage	230 V
Frequency	50 Hz
Load	100 %
Primary inrush current	39.6 A
Secondary inrush current	2.0 A





		Temperature 25°C Testing Circuitry Figure C
Model	UMCS30F-5-E	
Item	Leakage Current	
Object	+5V3A	

## 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

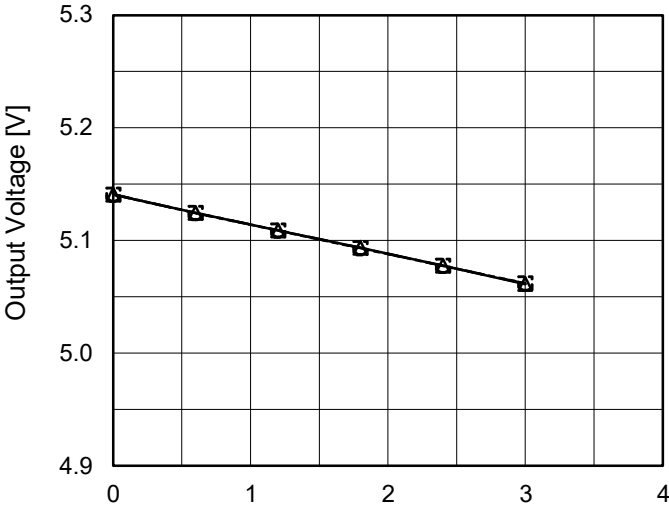
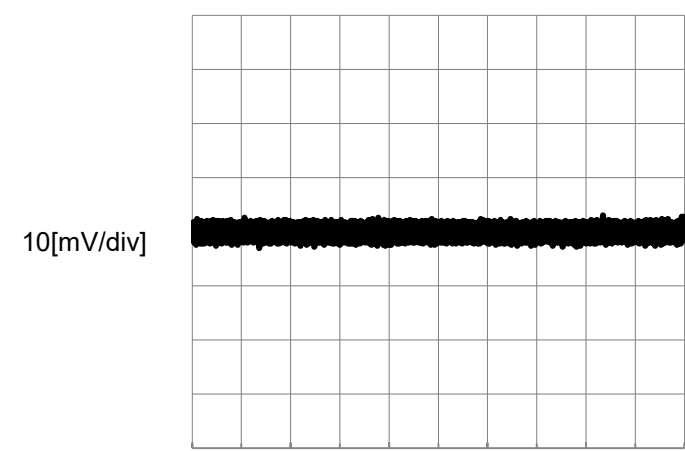
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



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Item	Line Regulation	Temperature	25°C																																
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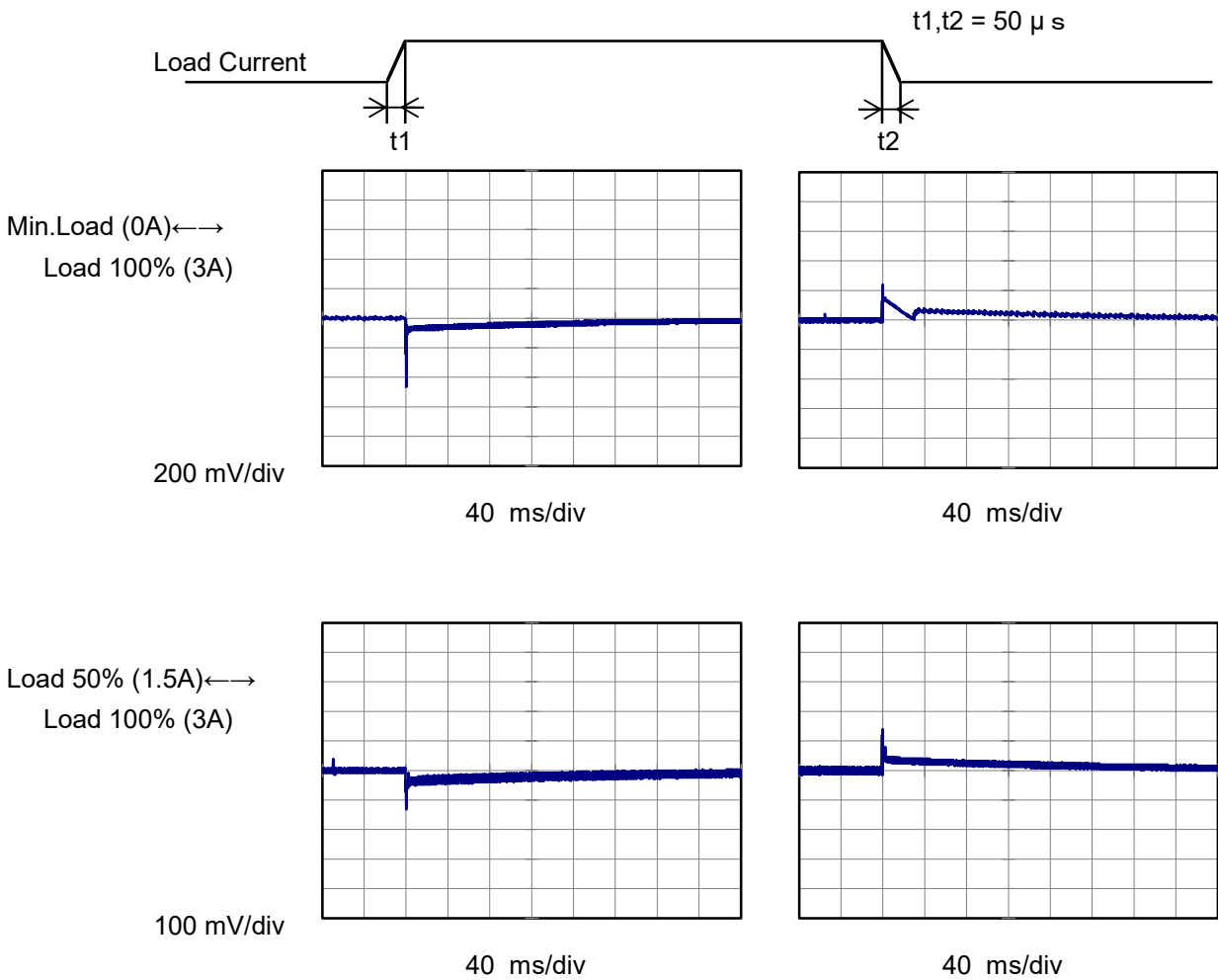
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Model	UMCS30F-5-E	Temperature     25°C Testing Circuitry   Figure A	
Item	Dynamic Load Response		
Object	+5V3A		

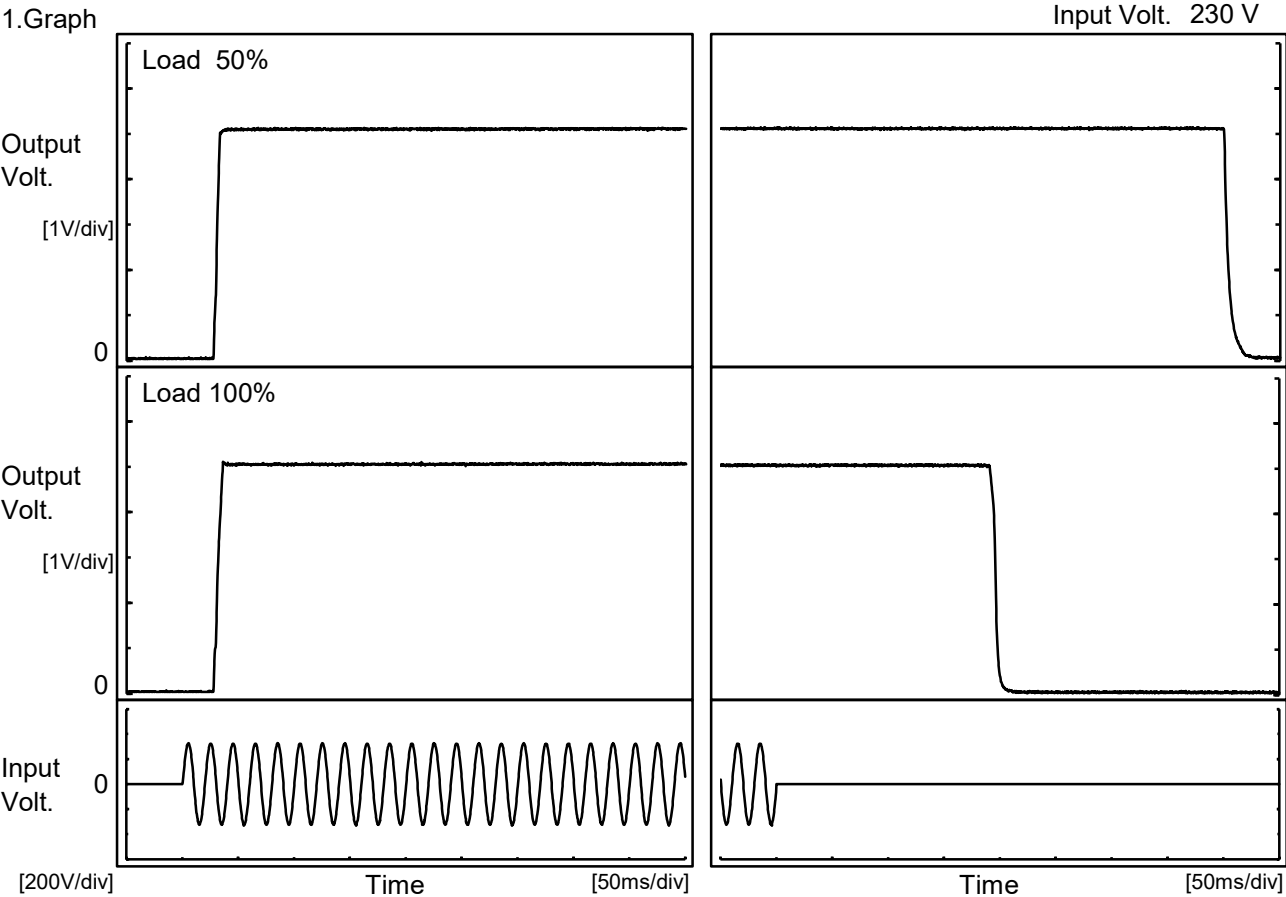
Input Volt.     230 V  
Cycle            1000 ms





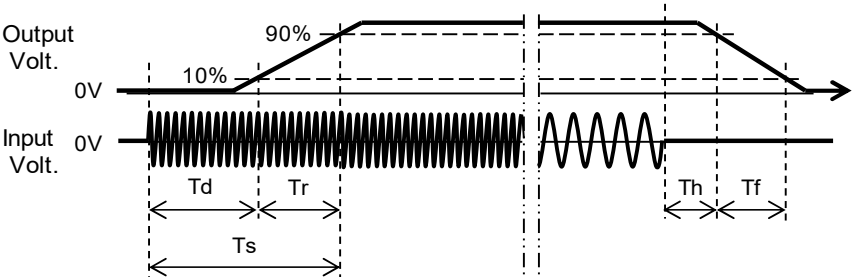
Model		UMCS30F-5-E	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V3A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		28.5	4.8	33.3	400.5	9.8
100 %		28.5	6.8	35.3	193.0	6.3





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<div><div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div><p>The graph shows the hold-up time in milliseconds on a logarithmic y-axis (1 to 1000) against the input voltage in volts on a linear x-axis (50 to 300). Two data series are plotted: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show an increasing trend of hold-up time with higher input voltage.</p><table><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr><tr><td>85</td><td>47</td><td>-</td></tr><tr><td>100</td><td>68</td><td>-</td></tr><tr><td>115</td><td>92</td><td>41</td></tr><tr><td>132</td><td>124</td><td>56</td></tr><tr><td>170</td><td>213</td><td>99</td></tr><tr><td>200</td><td>298</td><td>141</td></tr><tr><td>230</td><td>399</td><td>192</td></tr><tr><td>264</td><td>534</td><td>258</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></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></div>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	85	47	-	100	68	-	115	92	41	132	124	56	170	213	99	200	298	141	230	399	192	264	534	258	--	-	-	<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>85</td><td>47</td><td>-</td></tr><tr><td>100</td><td>68</td><td>-</td></tr><tr><td>115</td><td>92</td><td>41</td></tr><tr><td>132</td><td>124</td><td>56</td></tr><tr><td>170</td><td>213</td><td>99</td></tr><tr><td>200</td><td>298</td><td>141</td></tr><tr><td>230</td><td>399</td><td>192</td></tr><tr><td>264</td><td>534</td><td>258</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	47	-	100	68	-	115	92	41	132	124	56	170	213	99	200	298	141	230	399	192	264	534	258	--	-	-
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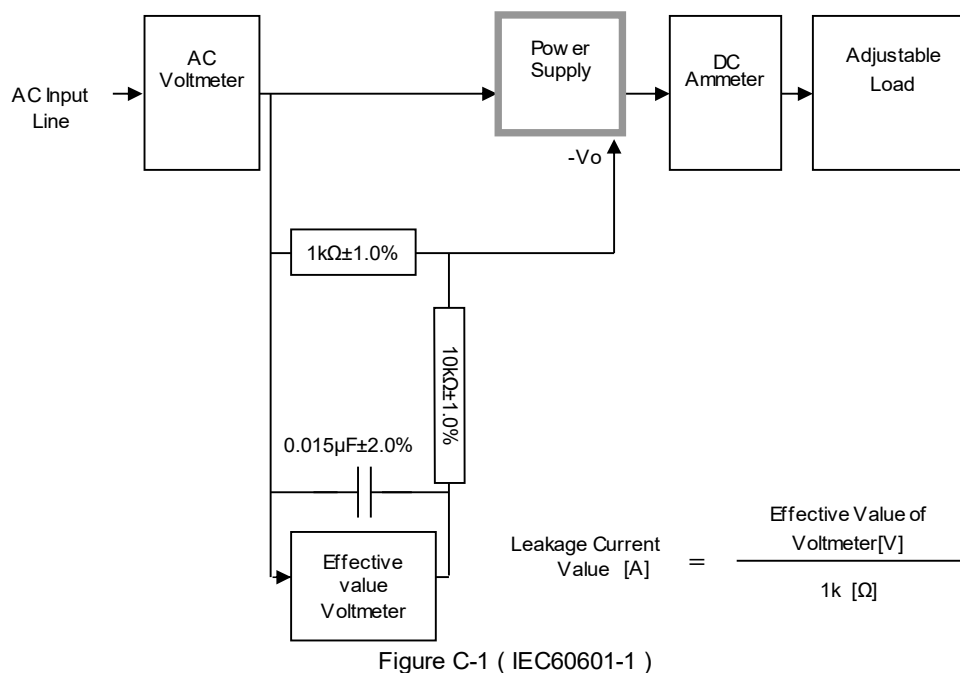
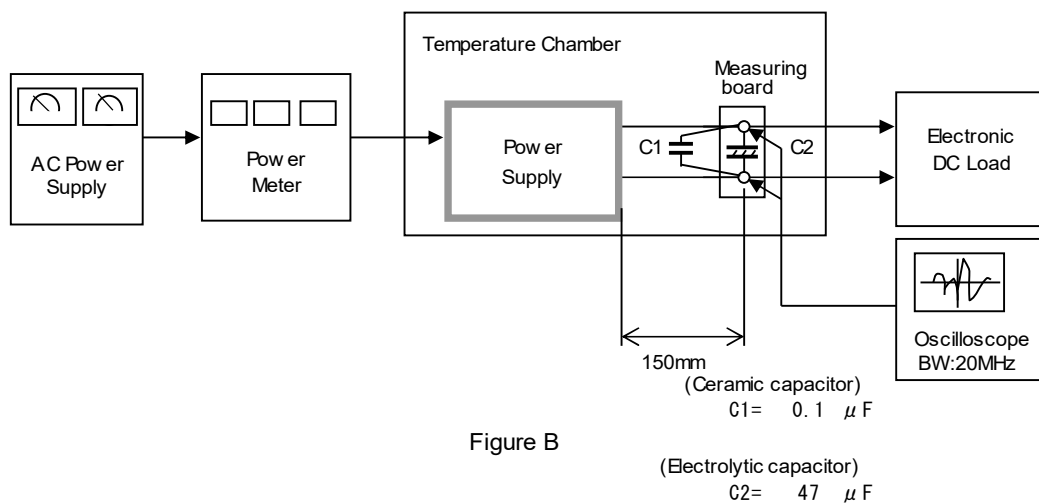
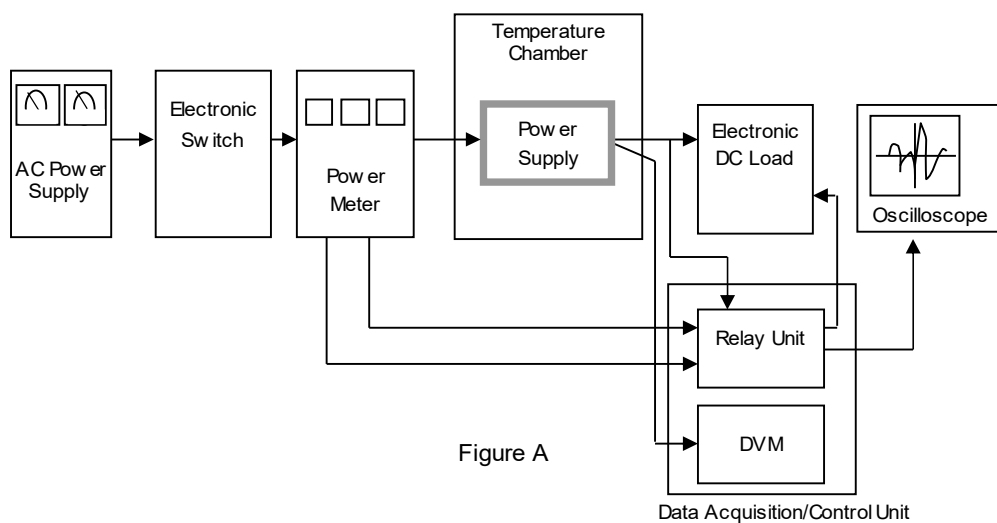
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-20	5.059	5.060	5.059																		
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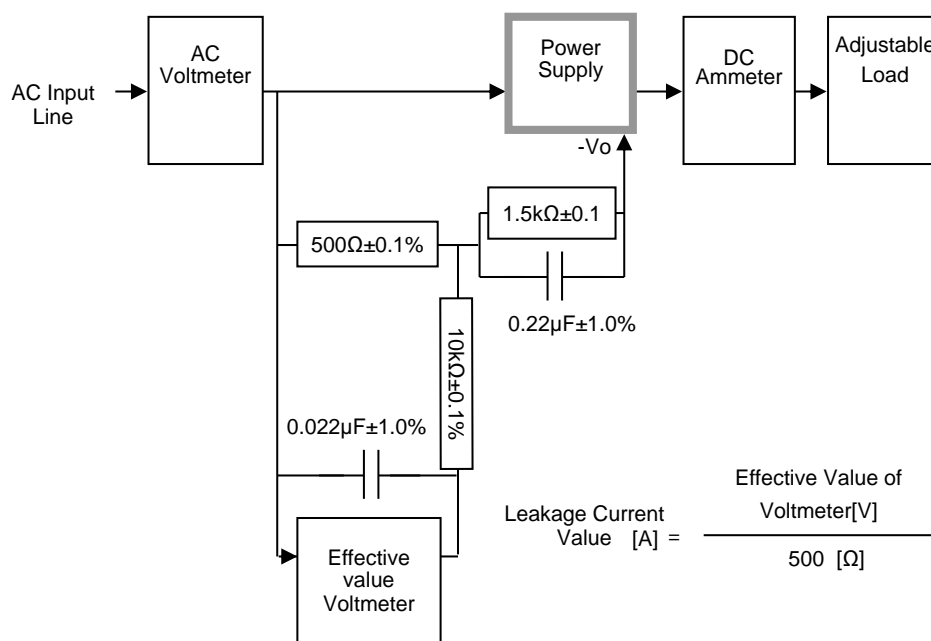


Figure C-2 ( IEC62368-1 refer to IEC60990 Fig.4 )

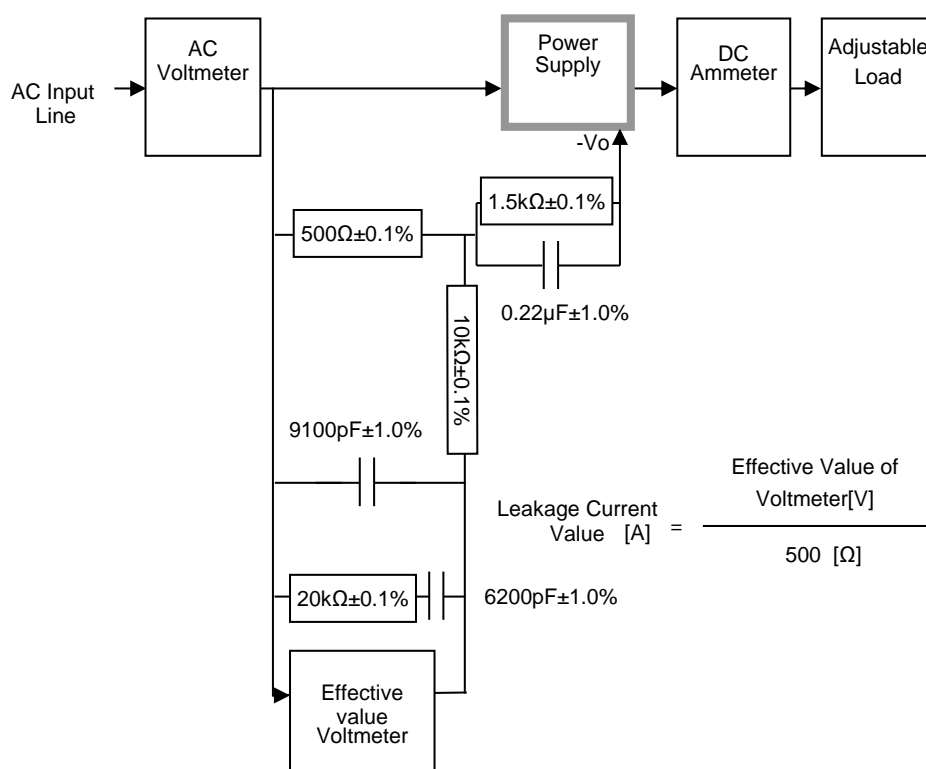


Figure C-3 ( IEC62368-1 refer to IEC60990 Fig.5 )