



# TEST DATA OF UMA60F-48

Regulated DC Power Supply  
January 12, 2023

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Design Manager

Prepared by : Jeonghoon Yi  
Design Engineer

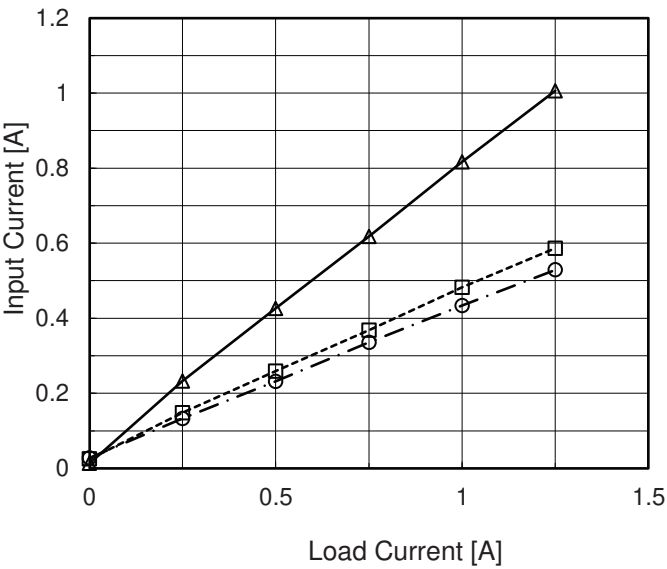
**COSEL CO.,LTD.**

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Item	Input Current (by Load Current)	Temperature	25°C																																																			
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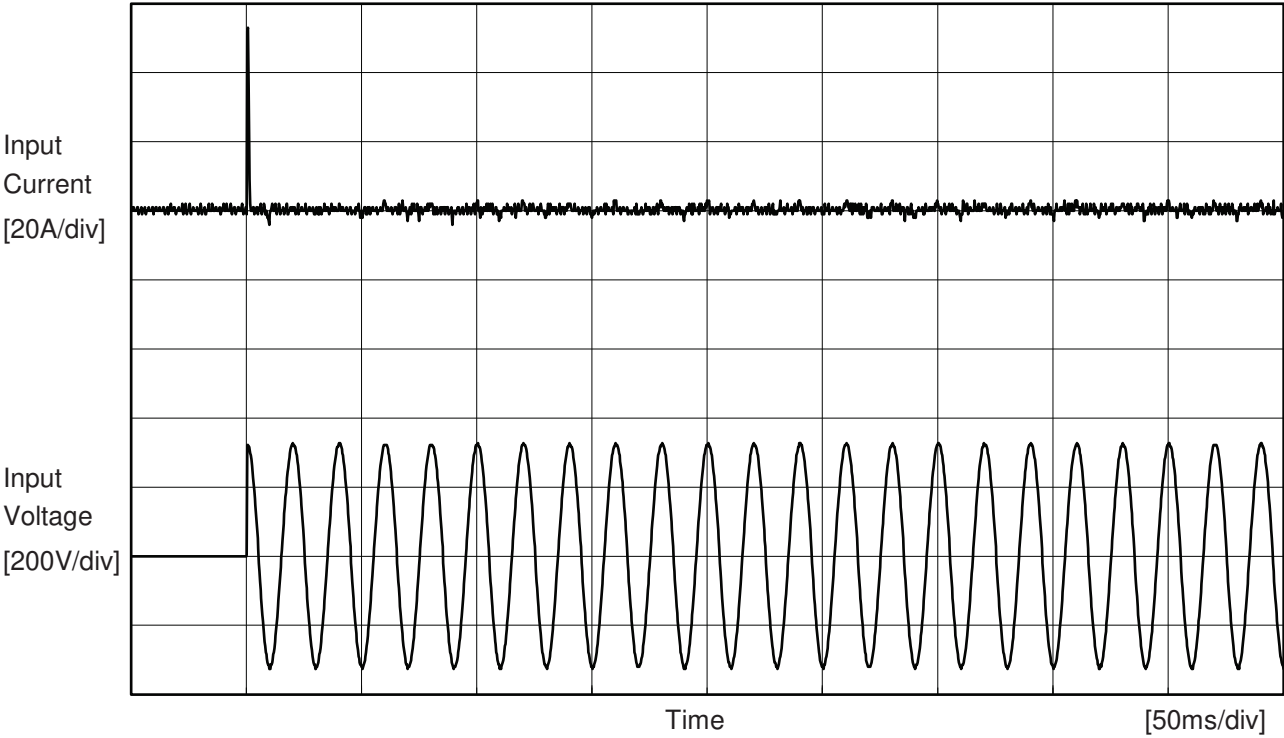
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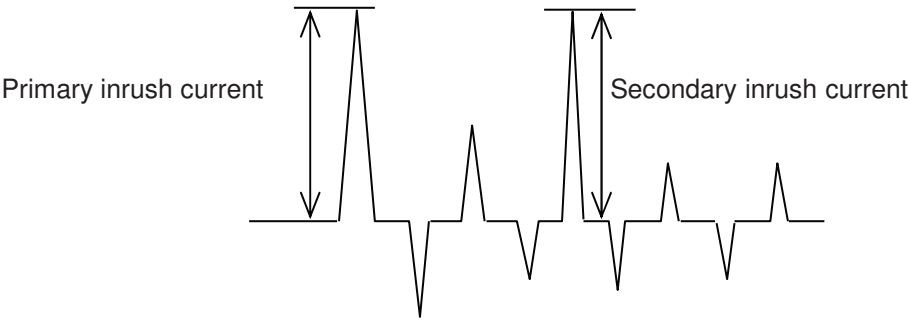
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Model		UMA60F-48	
Item		Inrush Current	Temperature 25°C Testing Circuitry Figure A
Object		+48V1.25A	



Input Voltage	230 V
Frequency	50 Hz
Load	100 %
Primary inrush current	53.0 A
Secondary inrush current	4.0 A





		Temperature 25°C Testing Circuitry Figure C
Model	UMA60F-48	
Item	Leakage Current	
Object	+48V1.25A	

## 1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			115 [V]	230 [V]	264 [V]	
IEC60601-1	Figure C-1	Both phases	0.05	0.11	0.13	Operation
		One of phases	0.10	0.21	0.25	Stand by
IEC62368-1	Figure C-2	Both phases	0.05	0.11	0.13	Operation
		One of phases	0.10	0.21	0.25	Stand by
	Figure C-3	Both phases	0.05	0.11	0.13	Operation
		One of phases	0.10	0.21	0.25	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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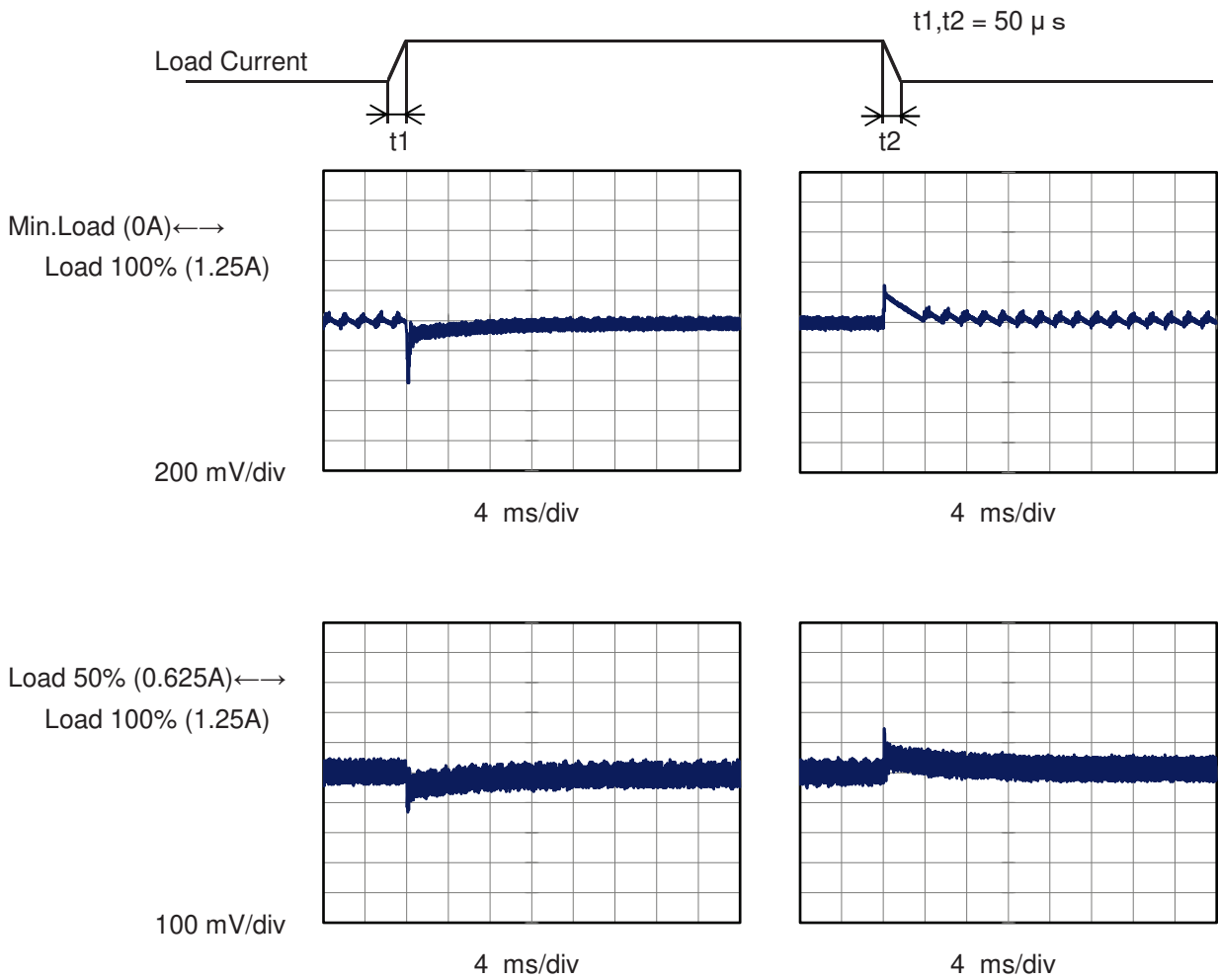


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<div><div>Input Voltage</div><div>230V</div></div> <div><div>Load</div><div>100%</div></div> <div><div>20[mV/div]</div><div><div></div></div><div>10[ms/div]</div></div>																																																										



Model	UMA60F-48		
Item	Dynamic Load Response	Temperature	25°C
Object	+48V1.25A	Testing Circuitry	Figure A

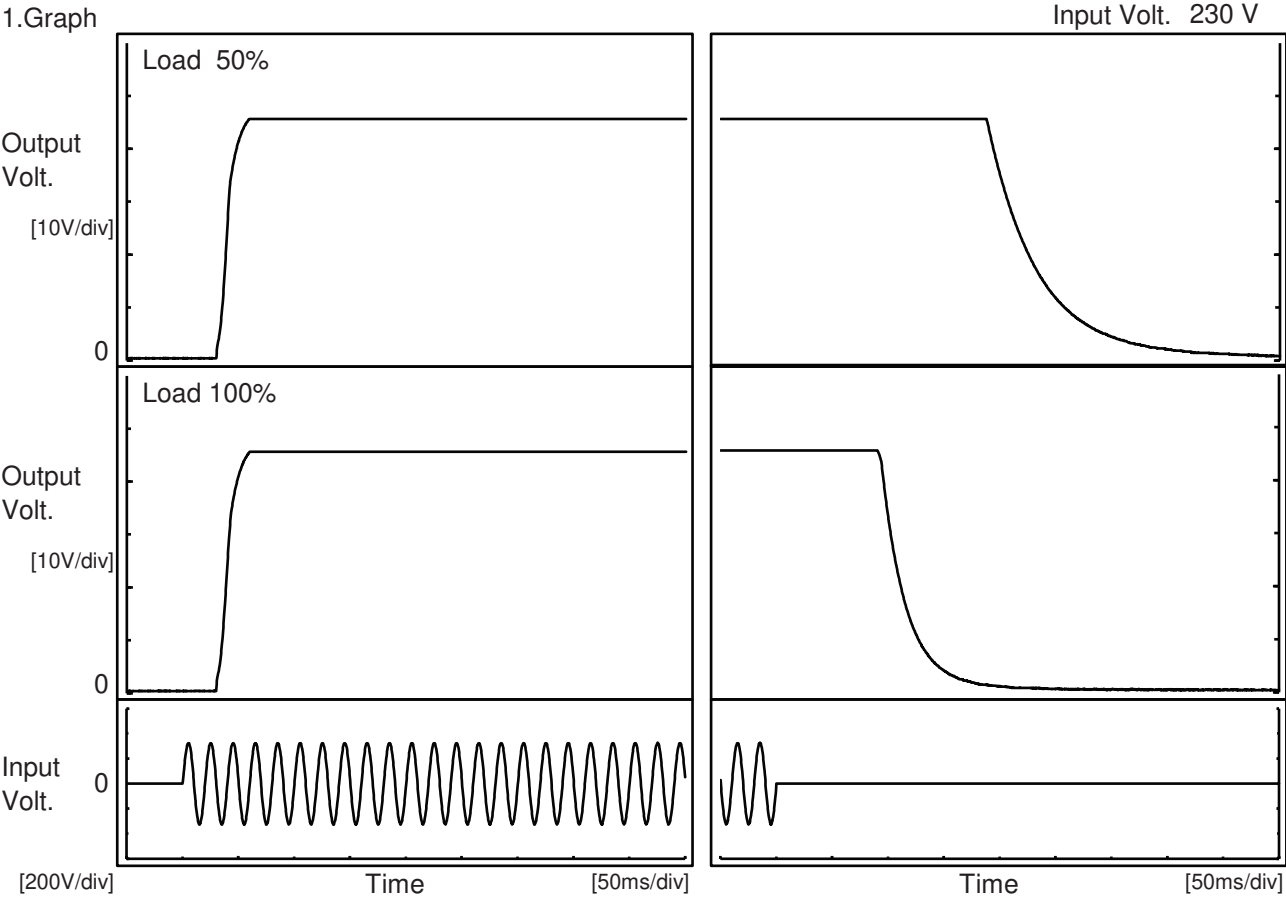
Input Volt. 230 V  
Cycle 1000 ms





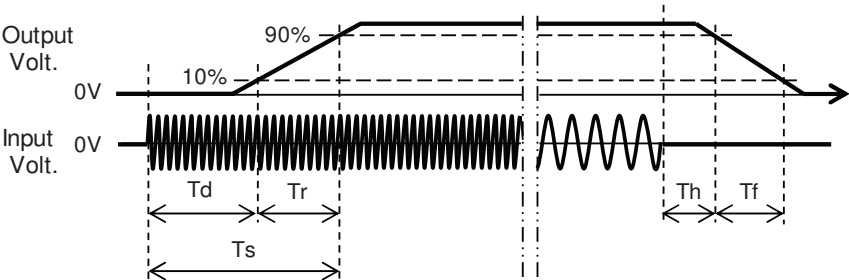
Model		UMA60F-48	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+48V1.25A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		33.5	20.5	54.0	190.0	100.8
100 %		33.5	20.8	54.3	93.8	49.5





<div>ModelUMA60F-48</div> <div>ItemHold-Up Time</div> <div>Object+48V1.25A</div>		<div>Temperature25°C</div> <div>Testing CircuitryFigure A</div>																																																															
<div>1.Graph</div> <div><div><div>---□---Load 50%</div><div>—△—Load 100%</div></div><table><tr><th>Input Voltage [V]</th><th>Hold-Up Time [ms] (50% Load)</th><th>Hold-Up Time [ms] (100% Load)</th></tr><tr><td>85</td><td>19</td><td>-</td></tr><tr><td>100</td><td>29</td><td>-</td></tr><tr><td>115</td><td>40</td><td>17</td></tr><tr><td>132</td><td>55</td><td>24</td></tr><tr><td>170</td><td>97</td><td>42</td></tr><tr><td>200</td><td>137</td><td>61</td></tr><tr><td>230</td><td>186</td><td>85</td></tr><tr><td>264</td><td>250</td><td>117</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></div>		Input Voltage [V]	Hold-Up Time [ms] (50% Load)	Hold-Up Time [ms] (100% Load)	85	19	-	100	29	-	115	40	17	132	55	24	170	97	42	200	137	61	230	186	85	264	250	117	--	-	-	<div>2.Values</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>85</td><td>19</td><td>-</td></tr><tr><td>100</td><td>29</td><td>-</td></tr><tr><td>115</td><td>40</td><td>17</td></tr><tr><td>132</td><td>55</td><td>24</td></tr><tr><td>170</td><td>97</td><td>42</td></tr><tr><td>200</td><td>137</td><td>61</td></tr><tr><td>230</td><td>186</td><td>85</td></tr><tr><td>264</td><td>250</td><td>117</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	19	-	100	29	-	115	40	17	132	55	24	170	97	42	200	137	61	230	186	85	264	250	117	--	-	-
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<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>																																																																	

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Model		UMA60F-48		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+48V1.25A																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>115V</div></div><div><div>---□---</div><div>Input Volt.</div><div>230V</div></div><div><div>---○---</div><div>Input Volt.</div><div>264V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p>		2.Values																																																				
		<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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.25</td><td>108</td><td>733</td><td>888</td></tr><tr><td>0.50</td><td>52</td><td>236</td><td>317</td></tr><tr><td>0.75</td><td>33</td><td>157</td><td>211</td></tr><tr><td>1.00</td><td>23</td><td>115</td><td>156</td></tr><tr><td>1.25</td><td>16</td><td>85</td><td>118</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]	0.00	-	-	-	0.25	108	733	888	0.50	52	236	317	0.75	33	157	211	1.00	23	115	156	1.25	16	85	118	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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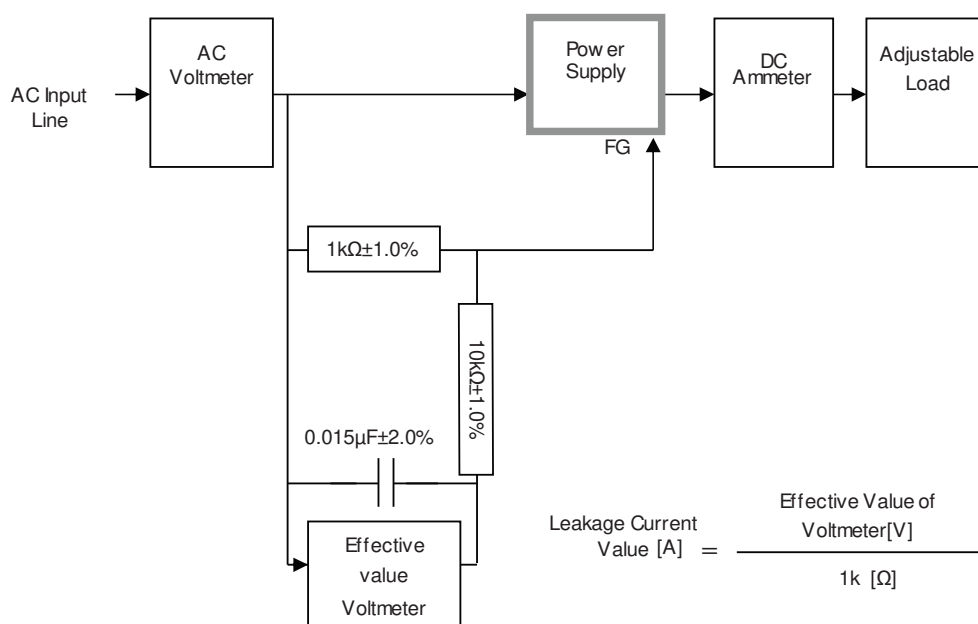
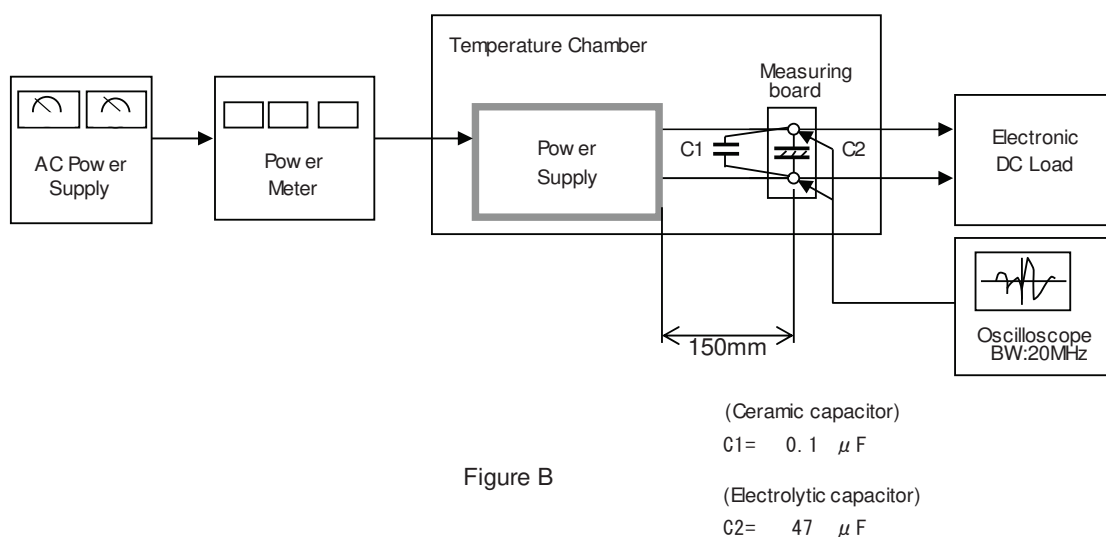
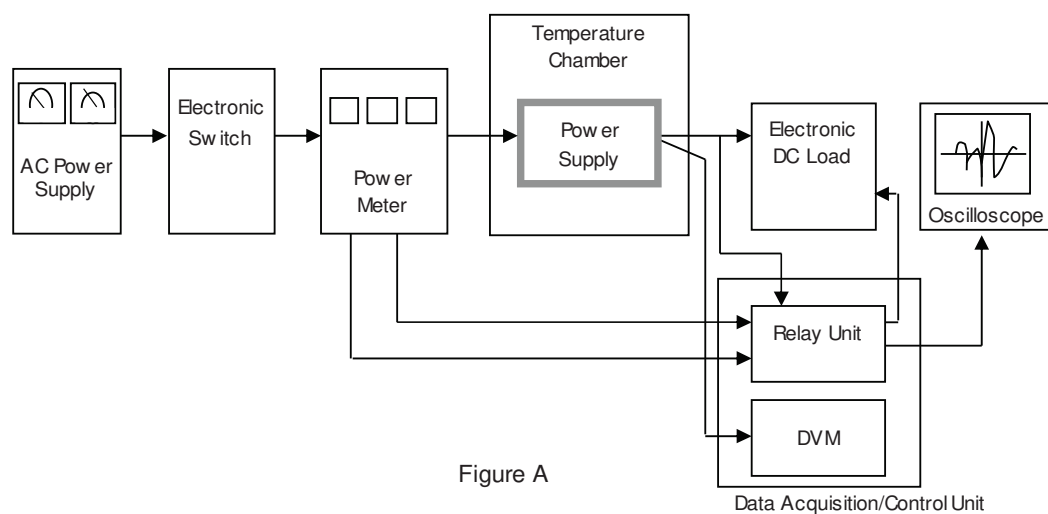
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**COSEL**

		Testing Circuitry    Figure A	
Model	UMA60F-48		
Item	Ambient Temperature Drift		
Object	+48V1.25A		
1.Values <span style="float:right">Load 100%</span>			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 115V	Input Volt. 230V	Input Volt. 264V
-20	48.240	48.244	48.246
25	48.441	48.442	48.442
50	48.505	48.506	48.506
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry    Figure A	
Object	+48V1.25A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-20	38	66	
25	36	67	
50	35	67	
Item	Overvoltage Protection	Testing Circuitry    Figure A	
Object	+48V1.25A		
1.Values <span style="float:right">Load 0%</span>			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 264V	
-20	61.92	62.81	
25	60.65	61.92	
50	59.45	63.41	

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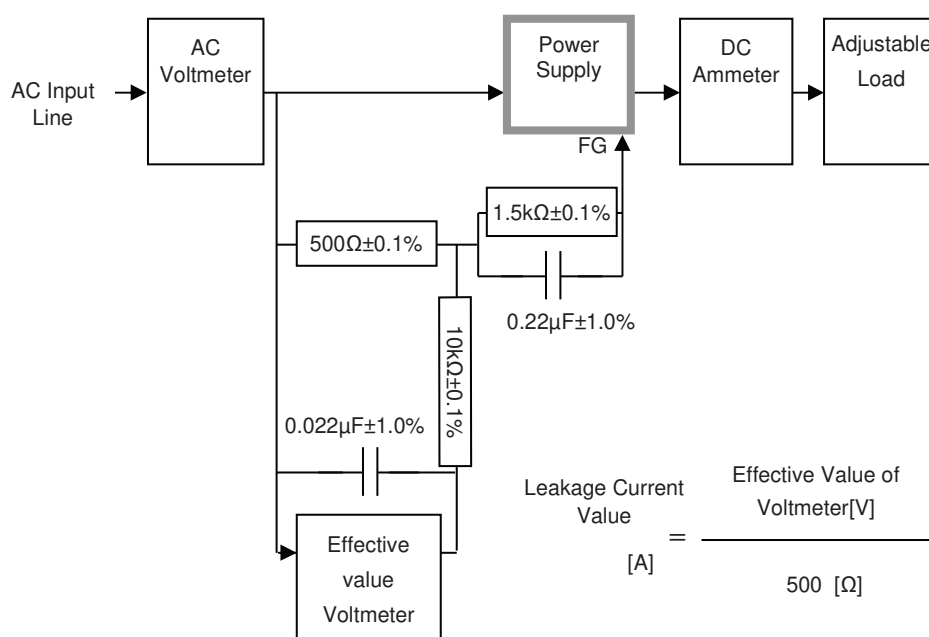


Figure C-2 ( IEC62368-1 refer to IEC60990 Fig.4 )

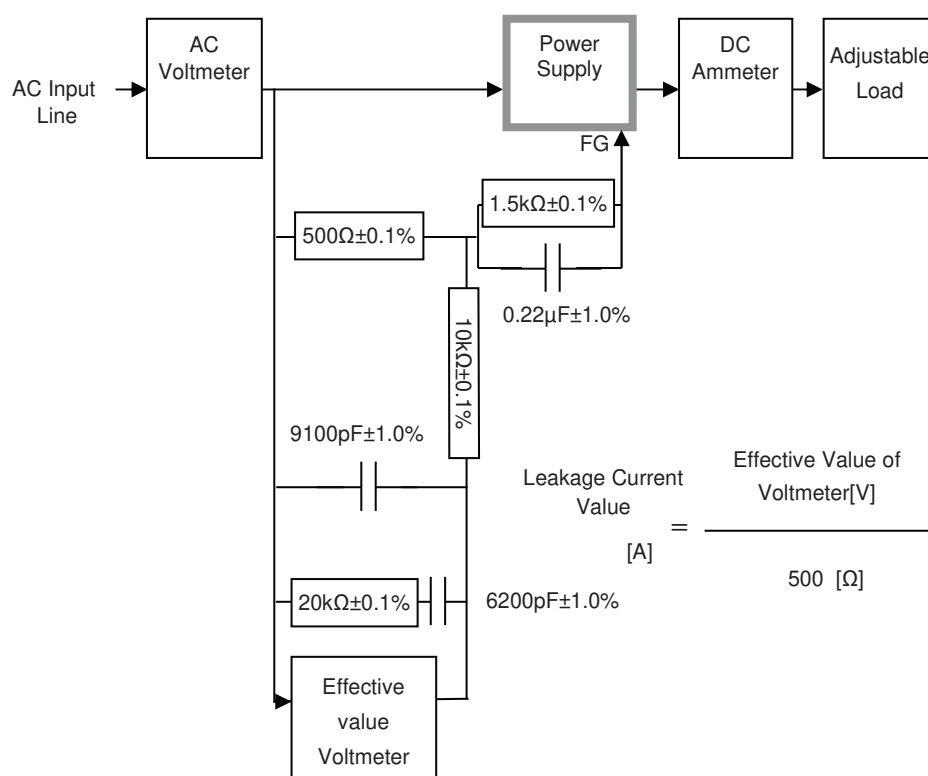


Figure C-3 ( IEC62368-1 refer to IEC60990 Fig.5 )