



TEST DATA OF AEA600F-24

Regulated DC Power Supply
January 25, 2021

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Design Manager

Prepared by : Masaki Tosu
Design Engineer

COSEL CO.,LTD.

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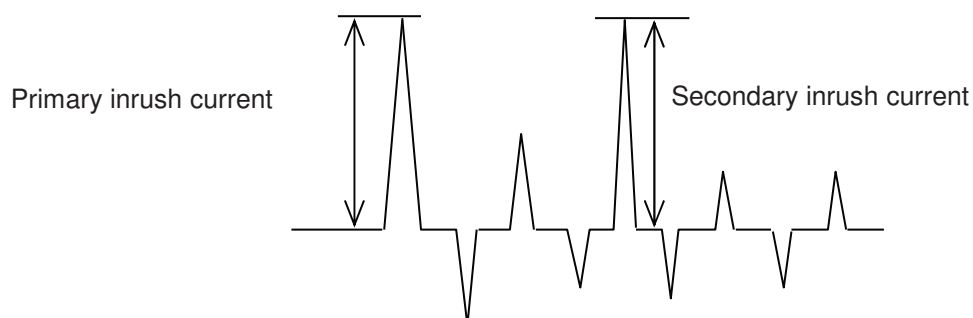
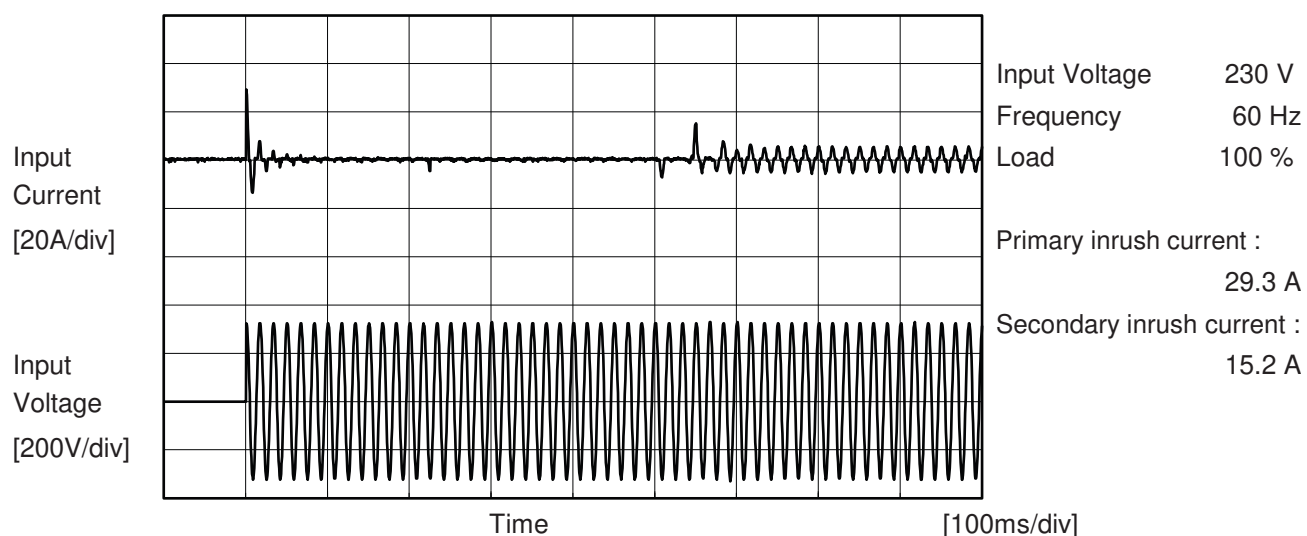
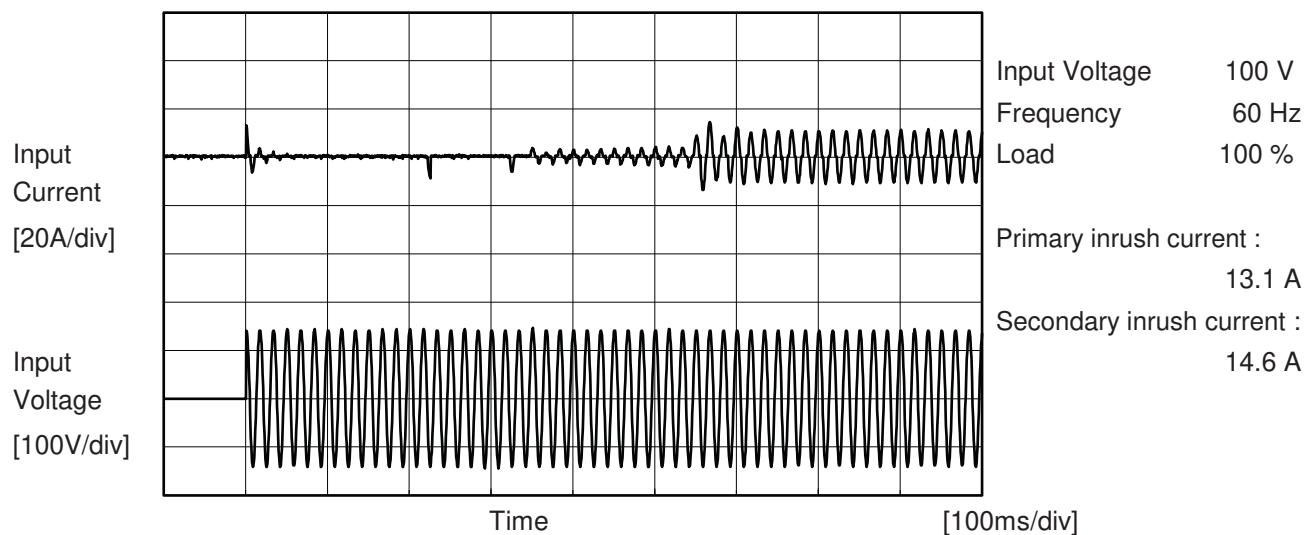
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Model		AEA600F-24	
Item		Inrush Current	Temperature 25°C Testing Circuitry Figure A
Object		_____	





Model		AEA600F-24	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure B-1	Both phases	0.07	0.19	0.20	Operation
		One of phases	0.14	0.36	0.39	Stand by
IEC62368-1	Figure B-2	Both phases	0.07	0.19	0.20	Operation
		One of phases	0.14	0.36	0.39	Stand by
	Figure B-3	Both phases	0.07	0.19	0.20	Operation
		One of phases	0.14	0.36	0.39	Stand by
IEC60601-1	Figure B-4	Both phases	0.07	0.19	0.20	Operation
		One of phases	0.14	0.36	0.39	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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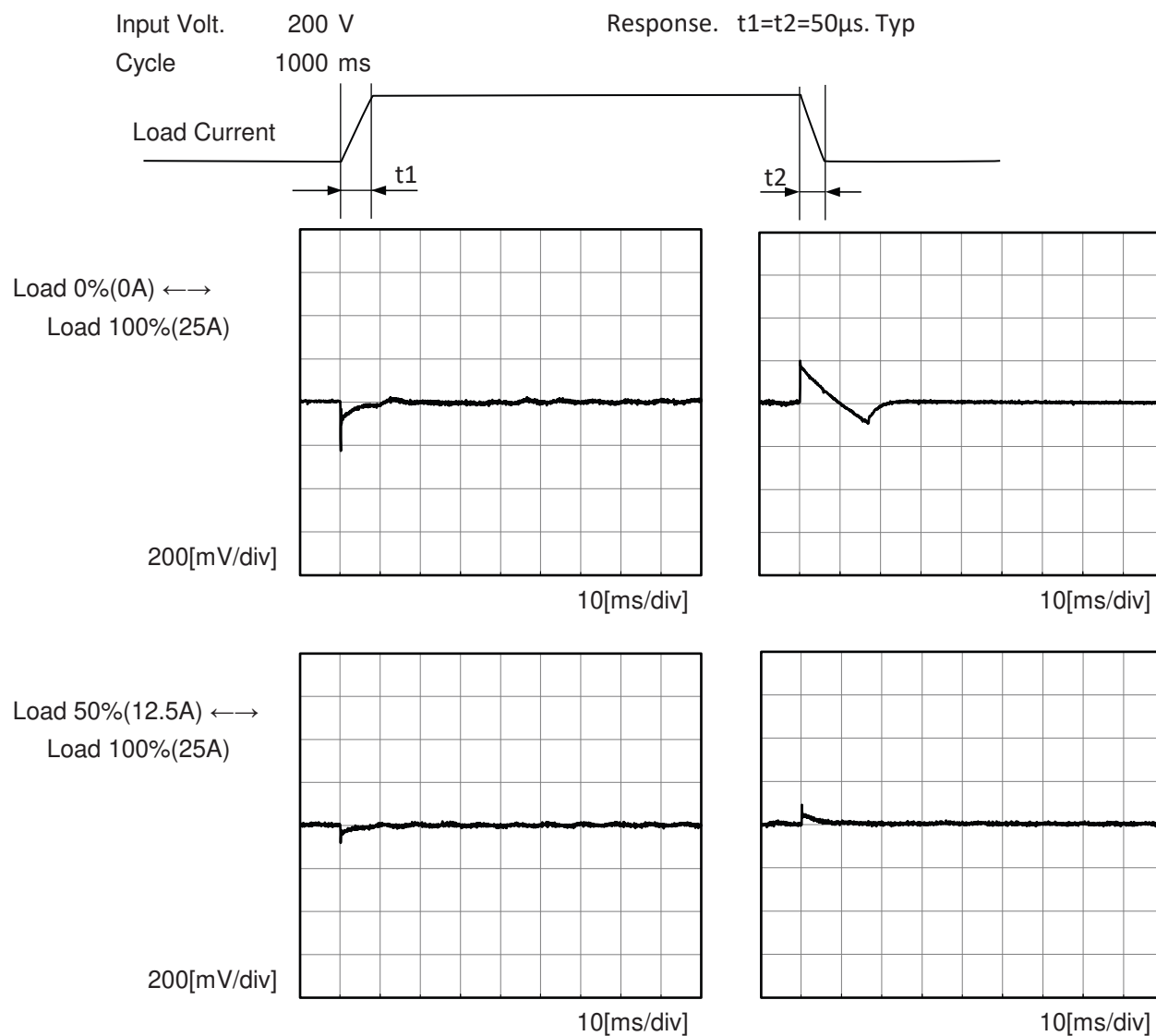
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Model	AEA600F-24																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+24V25A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>24.091</td><td>24.090</td><td>24.091</td></tr><tr><td>4.0</td><td>24.085</td><td>24.084</td><td>24.084</td></tr><tr><td>8.0</td><td>24.082</td><td>24.082</td><td>24.082</td></tr><tr><td>12.0</td><td>24.080</td><td>24.080</td><td>24.080</td></tr><tr><td>16.0</td><td>24.077</td><td>24.077</td><td>24.077</td></tr><tr><td>20.0</td><td>24.075</td><td>24.074</td><td>24.074</td></tr><tr><td>24.0</td><td>24.072</td><td>24.072</td><td>24.072</td></tr><tr><td>25.0</td><td>24.071</td><td>24.071</td><td>24.072</td></tr><tr><td>27.5</td><td>-</td><td>24.070</td><td>24.070</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	24.091	24.090	24.091	4.0	24.085	24.084	24.084	8.0	24.082	24.082	24.082	12.0	24.080	24.080	24.080	16.0	24.077	24.077	24.077	20.0	24.075	24.074	24.074	24.0	24.072	24.072	24.072	25.0	24.071	24.071	24.072	27.5	-	24.070	24.070	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	24.091	24.090	24.091																																																			
4.0	24.085	24.084	24.084																																																			
8.0	24.082	24.082	24.082																																																			
12.0	24.080	24.080	24.080																																																			
16.0	24.077	24.077	24.077																																																			
20.0	24.075	24.074	24.074																																																			
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27.5	-	24.070	24.070																																																			
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--	-	-	-																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
Object	+24V25A	Testing Circuitry	Figure C																																																			
1.Graph																																																						
<div><div>Input Voltage</div><div>200V</div></div> <div><div>Load</div><div>100%</div></div> <p>20[mV/div]</p> <p>10[μs/div]</p>																																																						

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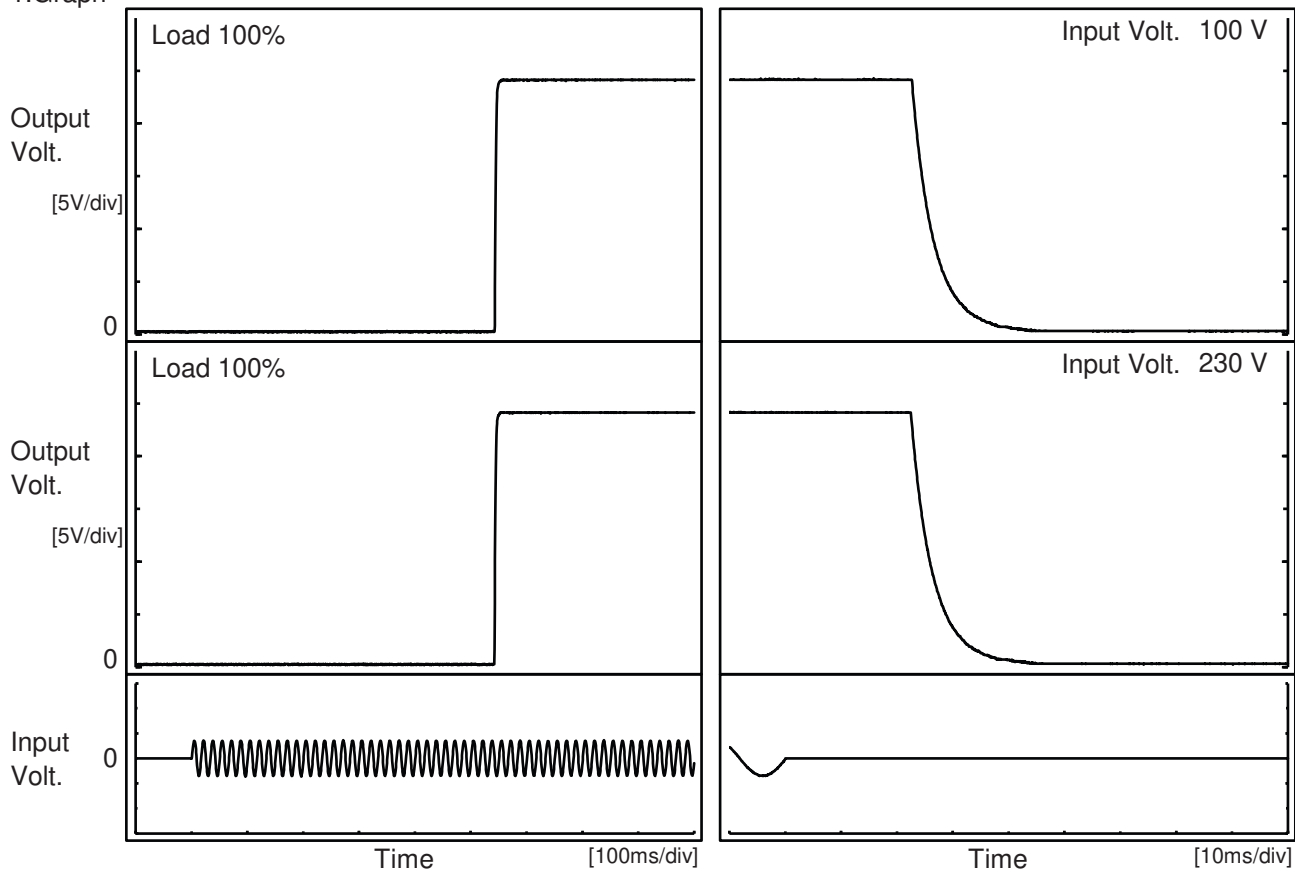
Model	AEA600F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+24V25A	



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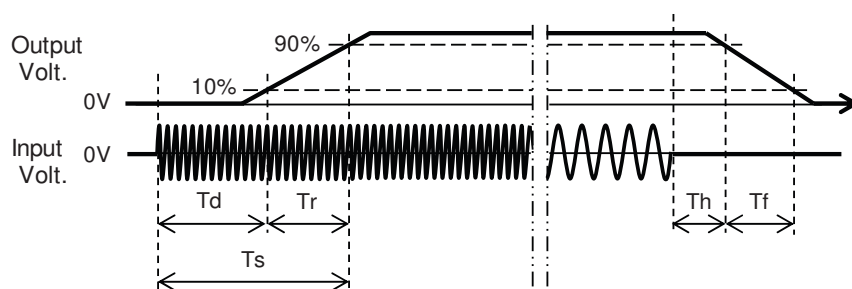
Model	AEA600F-24	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+24V25A	

1.Graph



2.Values

[ms]					
Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	543.5	3.0	546.5	23.1	8.8
230 V	543.0	3.0	546.0	22.9	8.9



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Model	AEA600F-24																																		
Item	Hold-Up Time	Temperature	25°C																																
Object	+24V25A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <div><div>Hold-Up Time [ms]</div><div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div></div><div>Input Voltage [V]</div></div> <div><div><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><div>Note: Slanted line shows the range of the rated input voltage.</div></div></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>45</td><td>38 *1</td></tr><tr><td>90</td><td>45</td><td>29 *2</td></tr><tr><td>100</td><td>45</td><td>30 *2</td></tr><tr><td>200</td><td>45</td><td>23</td></tr><tr><td>230</td><td>45</td><td>23</td></tr><tr><td>264</td><td>45</td><td>23</td></tr><tr><td>280</td><td>46</td><td>23</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> <div><div>*1 : Load 60%</div><div>*2 : Load 80%</div></div>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	45	38 *1	90	45	29 *2	100	45	30 *2	200	45	23	230	45	23	264	45	23	280	46	23	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
85	45	38 *1																																	
90	45	29 *2																																	
100	45	30 *2																																	
200	45	23																																	
230	45	23																																	
264	45	23																																	
280	46	23																																	
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Model		AEA600F-24		Temperature 25°C Testing Circuitry Figure A																																																			
Item		Instantaneous Interruption Compensation																																																					
Object		+24V25A																																																					
1.Graph																																																							
		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>---○---</div>Input Volt. 230V</div>																																																					
<div><div>Instantaneous Compensation Time [ms]</div><div><table><thead><tr><th>Load Current [A]</th><th>100V [ms]</th><th>200V [ms]</th><th>230V [ms]</th></tr></thead><tbody><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5.0</td><td>107</td><td>107</td><td>108</td></tr><tr><td>10.0</td><td>55</td><td>55</td><td>55</td></tr><tr><td>15.0</td><td>37</td><td>37</td><td>37</td></tr><tr><td>20.0</td><td>28</td><td>27</td><td>27</td></tr><tr><td>25.0</td><td>22</td><td>22</td><td>22</td></tr><tr><td>27.5</td><td>-</td><td>20</td><td>20</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></div><div><div>Load Current [A]</div></div></div>					Load Current [A]	100V [ms]	200V [ms]	230V [ms]	0.0	-	-	-	5.0	107	107	108	10.0	55	55	55	15.0	37	37	37	20.0	28	27	27	25.0	22	22	22	27.5	-	20	20	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-			
Load Current [A]	100V [ms]	200V [ms]	230V [ms]																																																				
0.0	-	-	-																																																				
5.0	107	107	108																																																				
10.0	55	55	55																																																				
15.0	37	37	37																																																				
20.0	28	27	27																																																				
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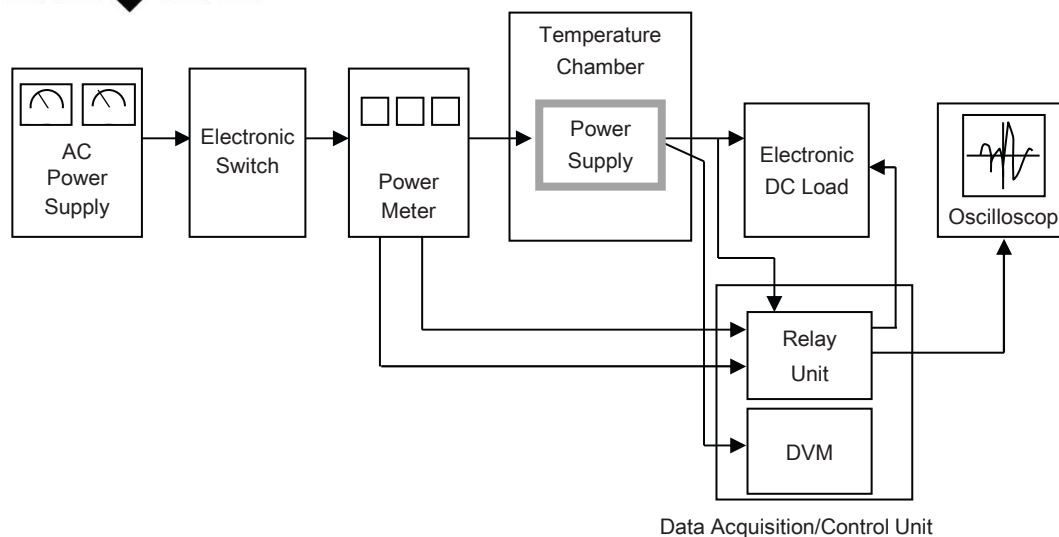


Figure A

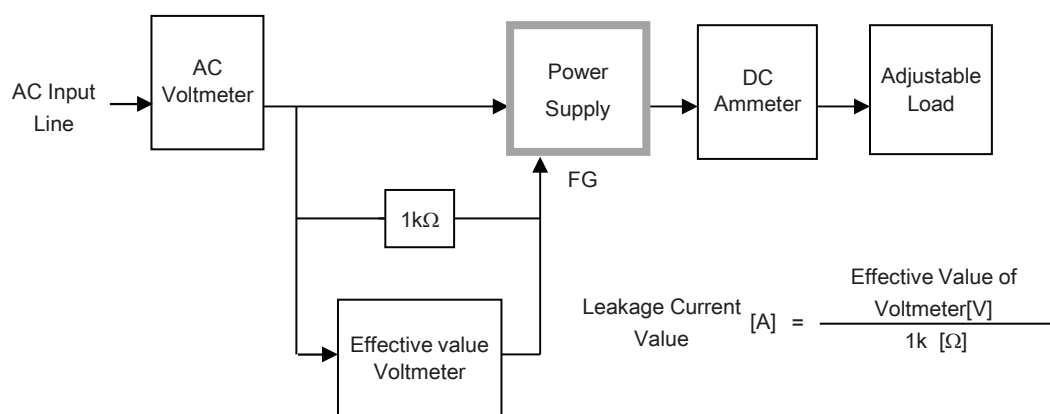


Figure B-1 (DEN-AN)

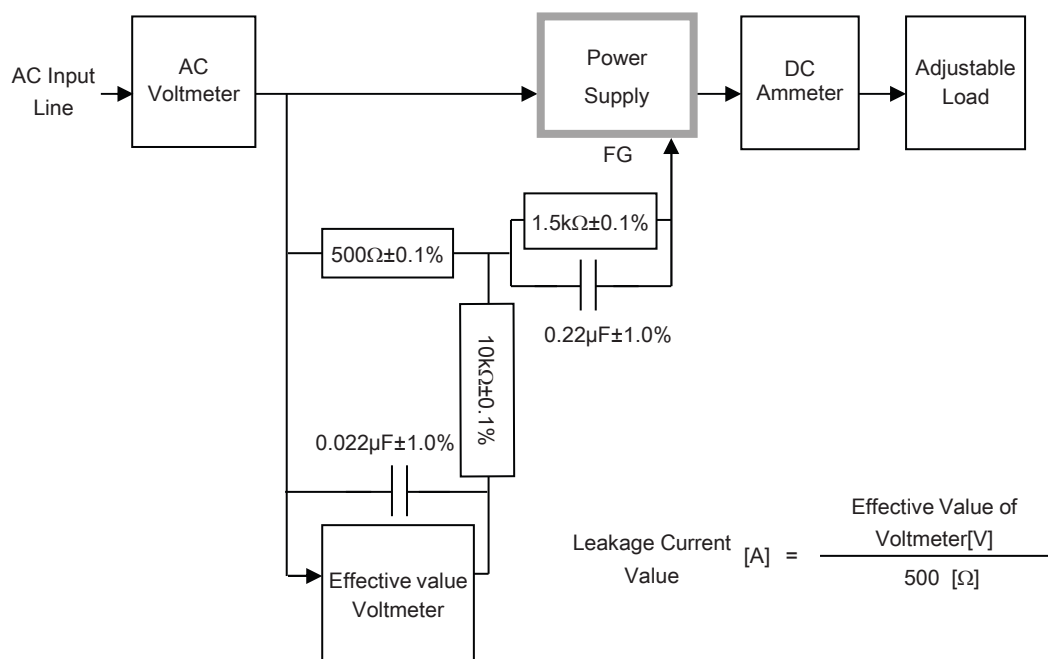


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

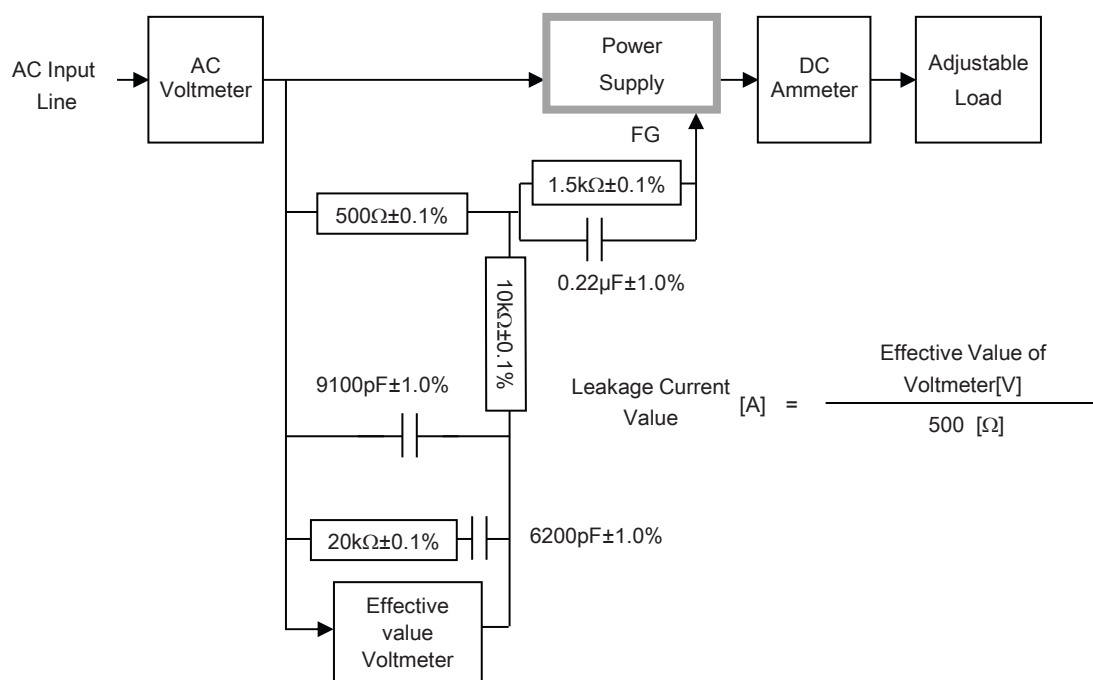


Figure B-3 (IEC62368-1 refer to IEC60990 Fig.5)

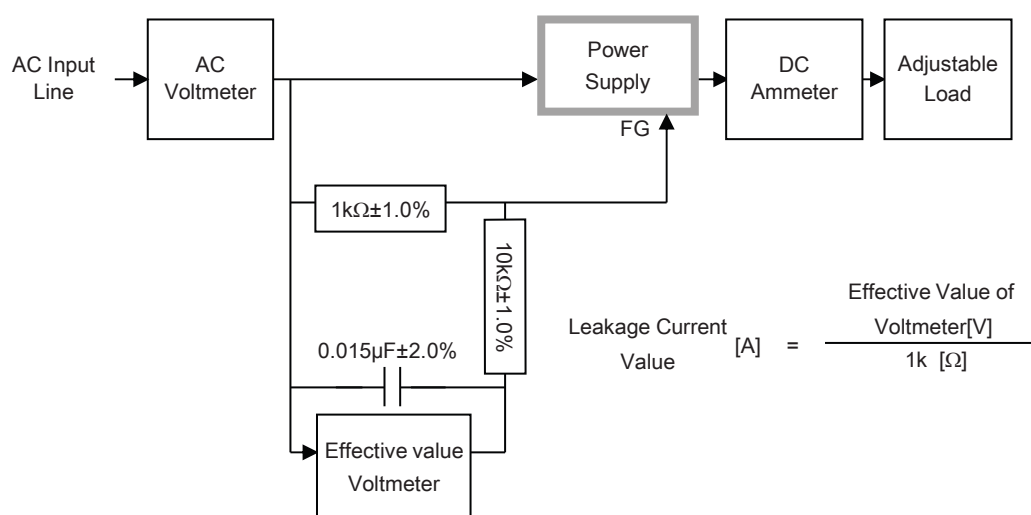


Figure B-4 (IEC60601-1)

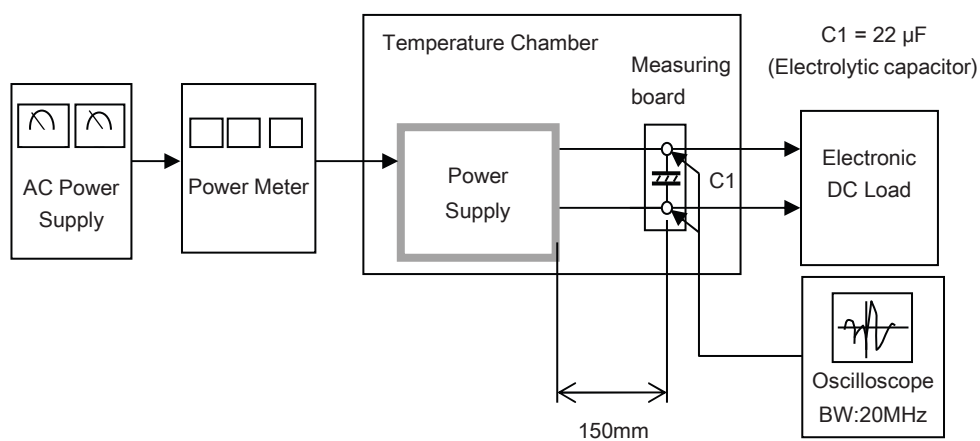


Figure C