



TEST DATA OF AEA800F-48

Regulated DC Power Supply
August 9, 2022

Approved by : _____ Jun Uchida

Design Manager

Prepared by : _____ Koro Yo

Design Engineer

COSEL CO.,LTD.



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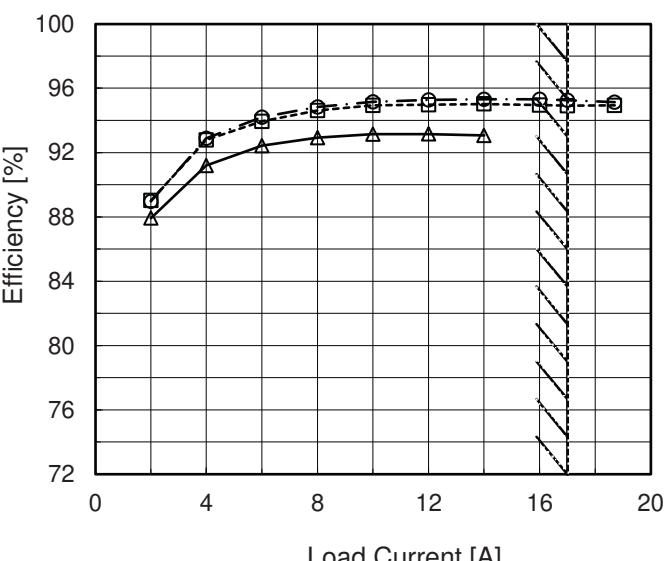
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Model	AEA800F-48																																																		
Item	Input Current (by Load Current)	Temperature 25°C	Testing Circuitry Figure A																																																
Object	_____																																																		
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<p>The graph plots Input Current [A] on the y-axis against Load Current [A] on the x-axis. Three curves are shown for different input voltages: 100V (solid line with triangles), 200V (dashed line with squares), and 230V (dash-dot line with circles). All curves show a linear increase in input current with load current. A vertical slanted line is drawn through the 100V curve at approximately 17.5A, indicating the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100V [A]</th> <th>Input Volt. 200V [A]</th> <th>Input Volt. 230V [A]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.121</td><td>0.175</td><td>0.192</td></tr> <tr><td>2.0</td><td>1.201</td><td>0.649</td><td>0.595</td></tr> <tr><td>4.0</td><td>2.225</td><td>1.147</td><td>1.023</td></tr> <tr><td>6.0</td><td>3.243</td><td>1.647</td><td>1.453</td></tr> <tr><td>8.0</td><td>4.255</td><td>2.144</td><td>1.890</td></tr> <tr><td>10.0</td><td>5.270</td><td>2.646</td><td>2.324</td></tr> <tr><td>12.0</td><td>6.299</td><td>3.149</td><td>2.754</td></tr> <tr><td>14.0</td><td>7.340</td><td>3.653</td><td>3.192</td></tr> <tr><td>16.0</td><td>-</td><td>4.157</td><td>3.633</td></tr> <tr><td>17.0</td><td>-</td><td>4.410</td><td>3.854</td></tr> <tr><td>18.7</td><td>-</td><td>4.843</td><td>4.227</td></tr> </tbody> </table>	Load Current [A]	Input Volt. 100V [A]	Input Volt. 200V [A]	Input Volt. 230V [A]	0.0	0.121	0.175	0.192	2.0	1.201	0.649	0.595	4.0	2.225	1.147	1.023	6.0	3.243	1.647	1.453	8.0	4.255	2.144	1.890	10.0	5.270	2.646	2.324	12.0	6.299	3.149	2.754	14.0	7.340	3.653	3.192	16.0	-	4.157	3.633	17.0	-	4.410	3.854	18.7	-	4.843	4.227			
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 <p>The graph plots Efficiency [%] on the y-axis (72 to 100) against Load Current [A] on the x-axis (0 to 20). Three data series are shown for input voltages of 100V, 200V, and 230V. The 100V series (triangles) starts at ~88% at 2A and rises to ~95% at 18A. The 200V series (squares) starts at ~89% at 2A and rises to ~96% at 18A. The 230V series (circles) starts at ~91% at 2A and rises to ~96% at 18A. A vertical dashed line at approximately 17A indicates the rated load current range.</p>			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>2.0</td><td>87.9</td><td>89.0</td><td>89.0</td></tr> <tr><td>4.0</td><td>91.2</td><td>92.8</td><td>92.9</td></tr> <tr><td>6.0</td><td>92.4</td><td>93.9</td><td>94.2</td></tr> <tr><td>8.0</td><td>92.9</td><td>94.6</td><td>94.8</td></tr> <tr><td>10.0</td><td>93.1</td><td>94.9</td><td>95.1</td></tr> <tr><td>12.0</td><td>93.2</td><td>95.0</td><td>95.3</td></tr> <tr><td>14.0</td><td>93.1</td><td>95.0</td><td>95.3</td></tr> <tr><td>16.0</td><td>-</td><td>95.0</td><td>95.3</td></tr> <tr><td>17.0</td><td>-</td><td>94.9</td><td>95.3</td></tr> <tr><td>18.7</td><td>-</td><td>94.9</td><td>95.1</td></tr> </tbody> </table>	Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	2.0	87.9	89.0	89.0	4.0	91.2	92.8	92.9	6.0	92.4	93.9	94.2	8.0	92.9	94.6	94.8	10.0	93.1	94.9	95.1	12.0	93.2	95.0	95.3	14.0	93.1	95.0	95.3	16.0	-	95.0	95.3	17.0	-	94.9	95.3	18.7	-	94.9	95.1
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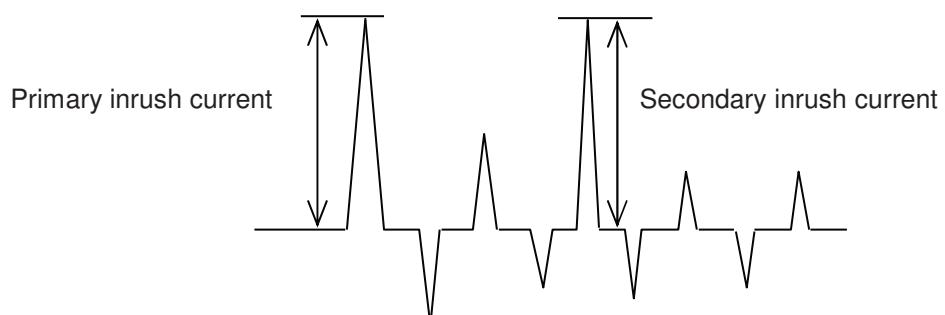
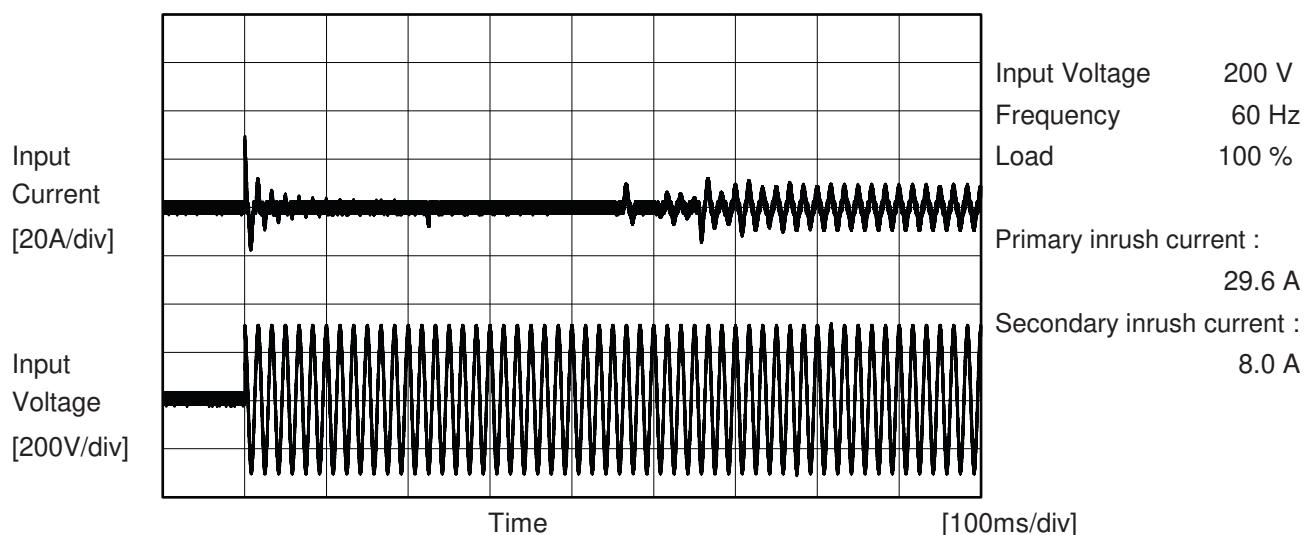
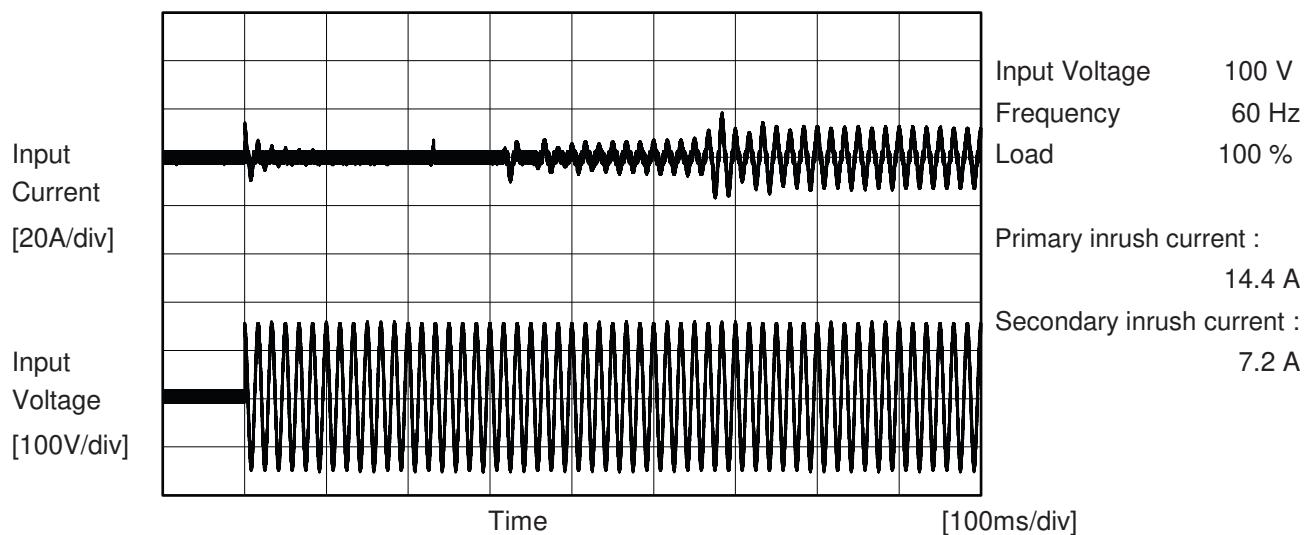
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Model	AEA800F-48	Temperature Testing Circuitry Figure A	25°C
Item	Inrush Current		
Object	_____		





Model	AEA800F-48	Temperature Testing Circuitry	25°C Figure B
Item	Leakage Current		
Object	_____		

1. Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	240 [V]	264 [V]	
DEN-AN	Figure B-1	Both phases	0.08	0.21	0.23	Operation
		One of phases	0.15	0.39	0.44	Stand by
IEC62368-1	Figure B-2	Both phases	0.08	0.20	0.23	Operation
		One of phases	0.15	0.39	0.43	Stand by
	Figure B-3	Both phases	0.08	0.20	0.23	Operation
		One of phases	0.15	0.38	0.43	Stand by
IEC60601-1	Figure B-4	Both phases	0.08	0.20	0.23	Operation
		One of phases	0.15	0.38	0.43	Stand by

The value for "One of phases" is the reference value only.

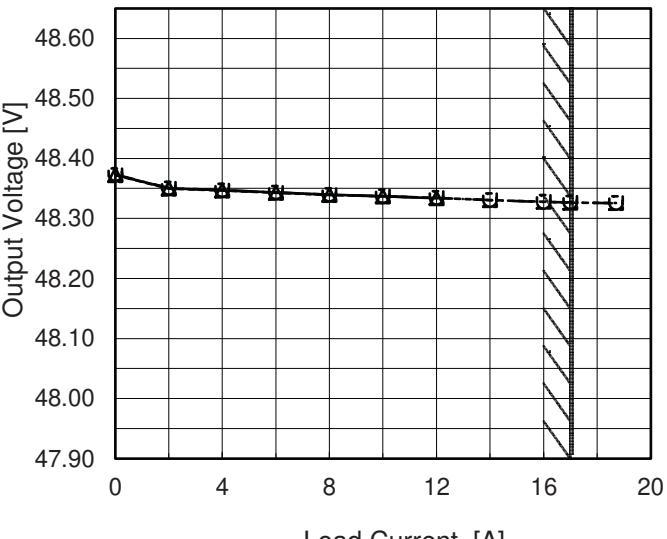
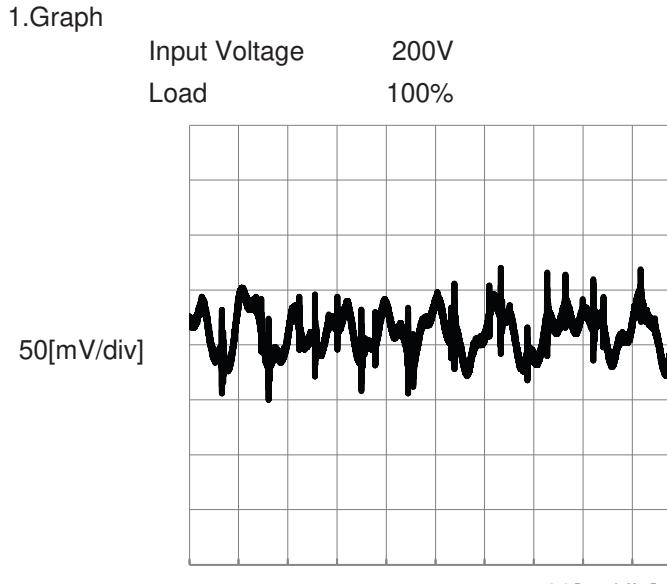
2. Condition

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 Testing Circuitry Figure A																																
Object	+48V17A																																	
1.Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line), Load 100% (solid line)</p>																																		
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+48V17A	Testing Circuitry	Figure C																																																			
1.Graph	<p>Input Voltage 200V Load 100%</p>  <p>50[mV/div]</p> <p>20[μs/div]</p>																																																					

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Model	AEA800F-48	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+48V17A		

Input Volt. 200 V
Cycle 1000 ms

Response. $t_1=t_2=50\mu\text{s}$. Typ

Load 0%(0A) \longleftrightarrow
Load 100%(17A)

500[mV/div]

10[ms/div]

10[ms/div]

Load 50%(8.5A) \longleftrightarrow
Load 100%(17A)

500[mV/div]

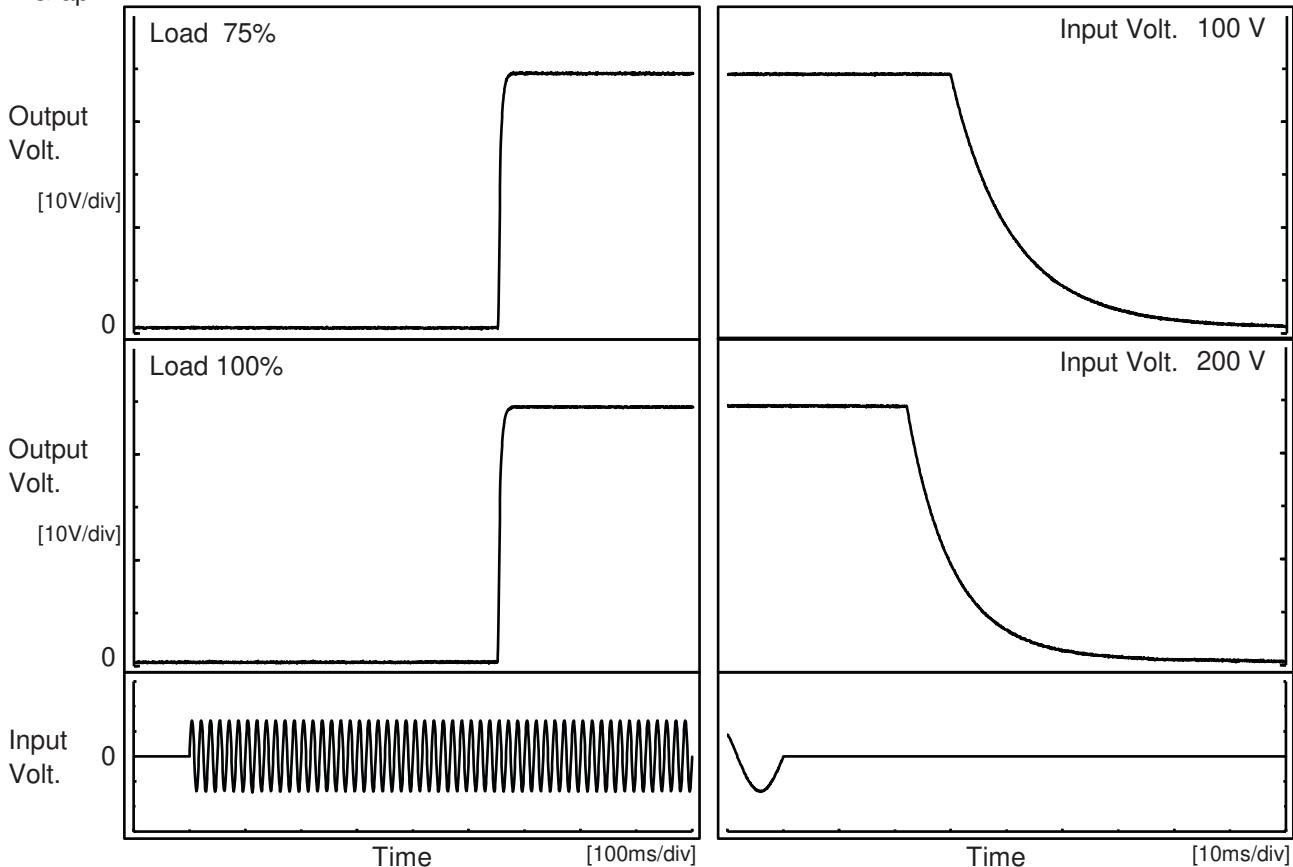
10[ms/div]

10[ms/div]

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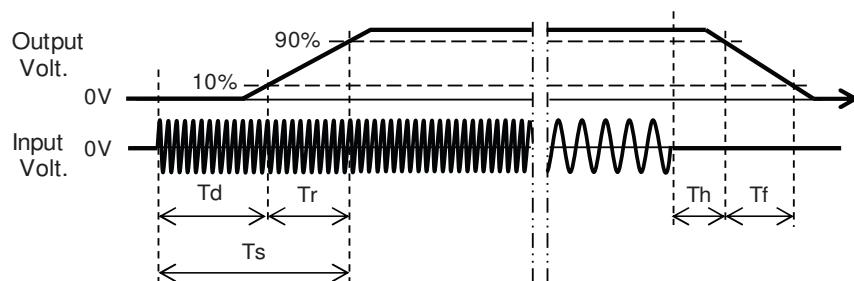
Model	AEA800F-48	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V17A		

1.Graph



2.Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
100 %		552.5	8.0	560.0	31.1	26.2	
100 %		552.0	8.0	560.0	23.0	19.5	



COSEL

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<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> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																			

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Model	AEA800F-48																																														
Item	Instantaneous Interruption Compensation	Temperature Testing Circuitry	25°C Figure A																																												
Object	+48V17A																																														
1.Graph	<p>Graph showing Instantaneous Compensation Time [ms] vs Load Current [A]. The Y-axis is logarithmic from 1 to 1000 ms. The X-axis ranges from 0 to 20 A. Three curves are plotted for Input Volt. 100V (solid line with triangles), Input Volt. 200V (dashed line with squares), and Input Volt. 230V (dash-dot line with circles). A slanted line indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>2.0</td><td>177</td><td>178</td><td>177</td></tr> <tr><td>4.0</td><td>90</td><td>91</td><td>91</td></tr> <tr><td>6.0</td><td>61</td><td>62</td><td>61</td></tr> <tr><td>8.0</td><td>46</td><td>47</td><td>46</td></tr> <tr><td>10.0</td><td>38</td><td>37</td><td>38</td></tr> <tr><td>12.0</td><td>30</td><td>31</td><td>31</td></tr> <tr><td>14.0</td><td>26</td><td>26</td><td>27</td></tr> <tr><td>16.0</td><td>-</td><td>23</td><td>23</td></tr> <tr><td>17.0</td><td>-</td><td>21</td><td>22</td></tr> <tr><td>18.7</td><td>-</td><td>20</td><td>20</td></tr> </tbody> </table>			Load Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	2.0	177	178	177	4.0	90	91	91	6.0	61	62	61	8.0	46	47	46	10.0	38	37	38	12.0	30	31	31	14.0	26	26	27	16.0	-	23	23	17.0	-	21	22	18.7	-	20	20
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		Temperature 25°C Testing Circuitry Figure A																																																																													
Model	AEA800F-48																																																																														
Item	Overcurrent Protection																																																																														
Object	+48V17A																																																																														
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Model	AEA800F-48	Testing Circuitry Figure A
Item	Ambient Temperature Drift	
Object	+48V17A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-20	48.197	48.197	48.197
25	48.328	48.327	48.327
50	48.345	48.345	48.344

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+48V17A		

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	73	73
25	72	72
50	73	73

Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+48V17A		

1.Values

Load 0%

Ambient Temperature[°C]	Operating Point [V]	
	Input Volt. 100V	Input Volt. 200V
-20	63.36	62.83
25	65.06	64.95
50	66.64	66.53

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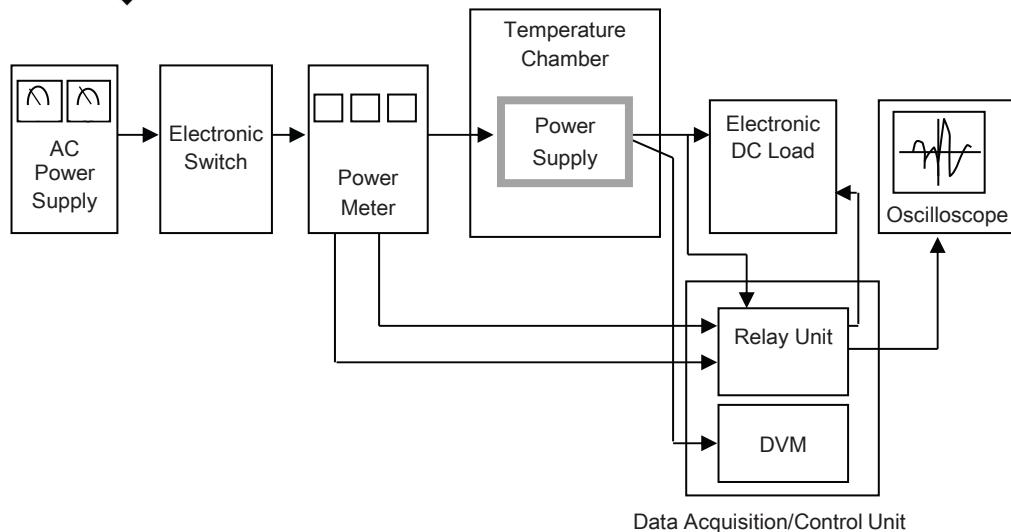


Figure A

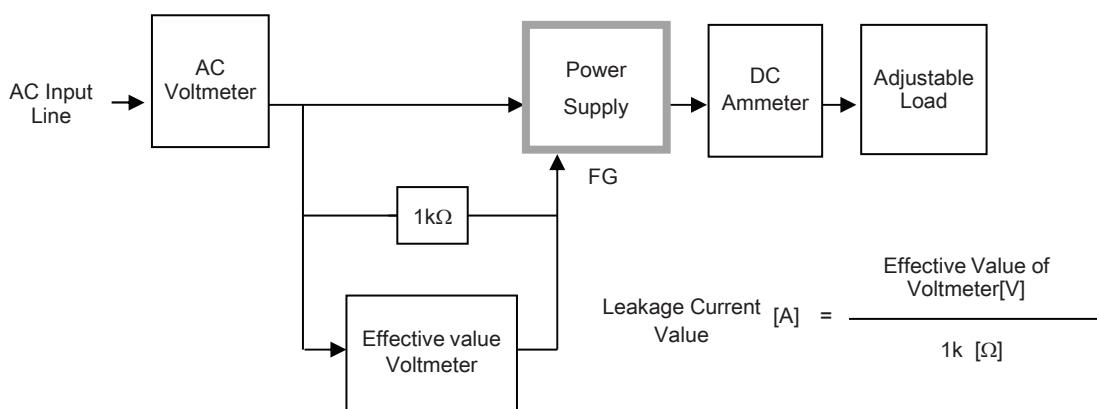


Figure B-1 (DEN-AN)

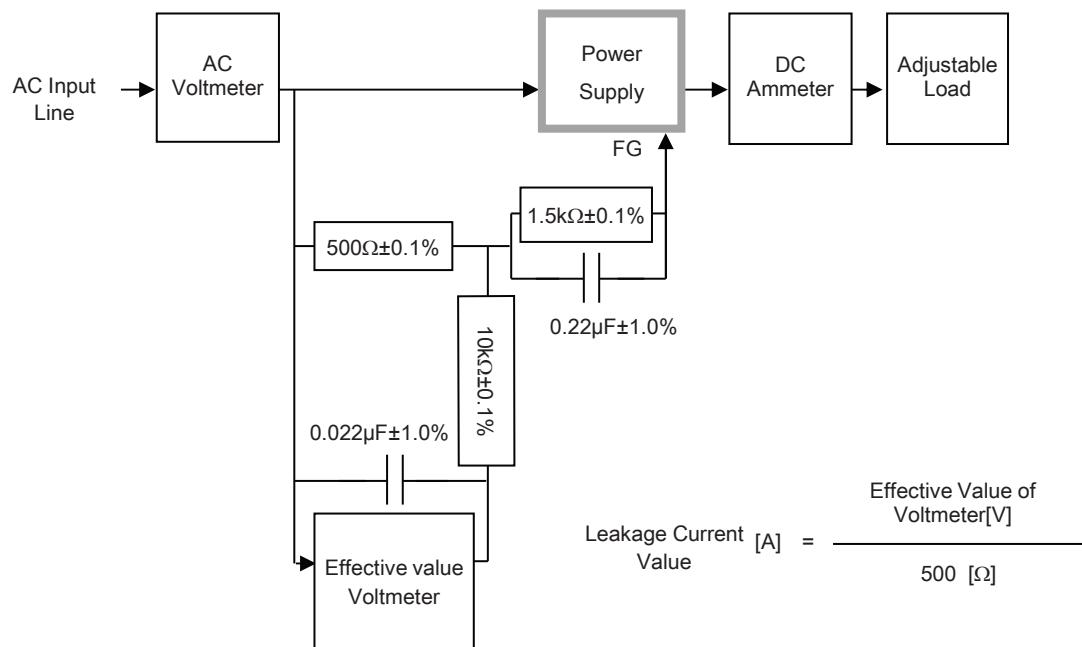


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

COSEL

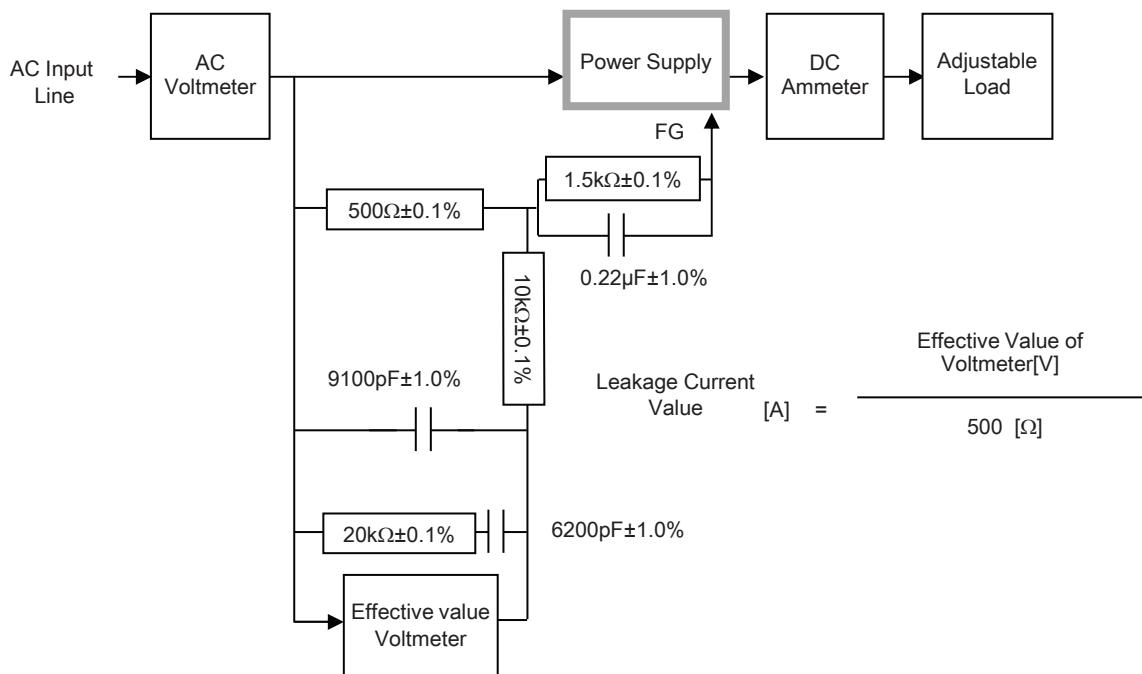


Figure B-3 (IEC62368-1 refer to IEC60990 Fig.5)

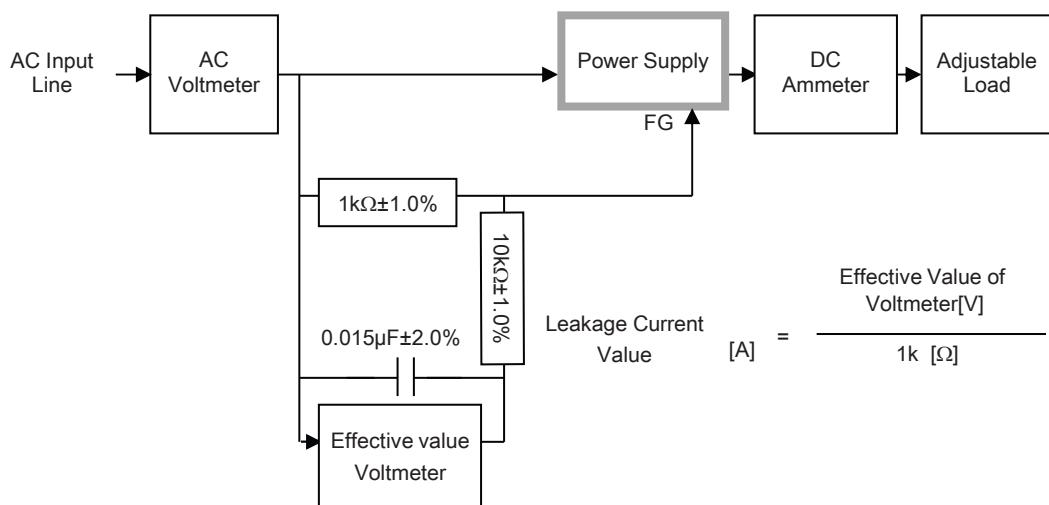


Figure B-4 (IEC60601-1)

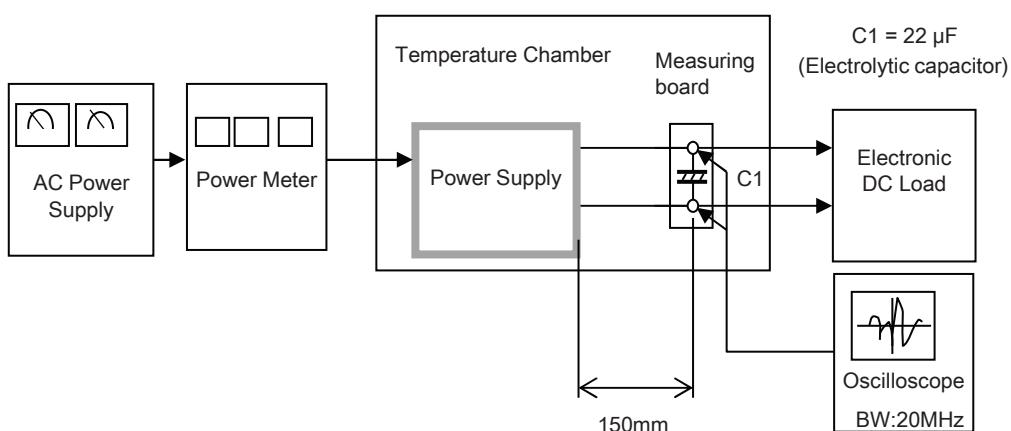


Figure C