



# TEST DATA OF AEA800F-24

Regulated DC Power Supply  
August 9, 2022

Approved by : Jun Uchida  
Design Manager

Prepared by : Koro Yo  
Design Engineer

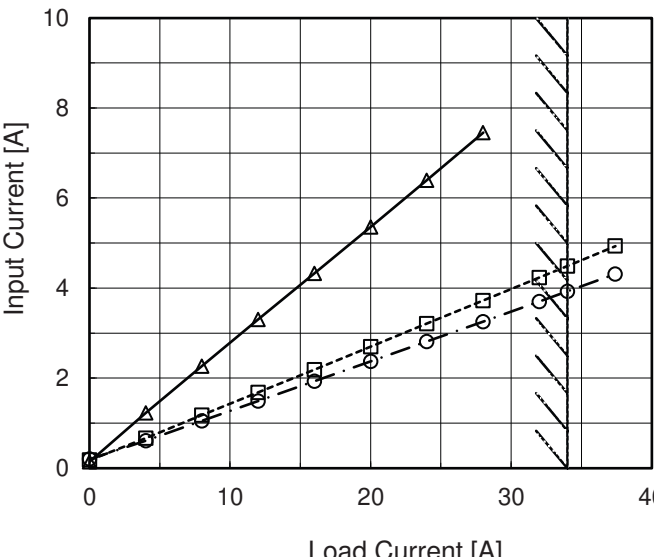
**COSEL CO.,LTD.**

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Model		AEA800F-24		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>---○---</div>Input Volt. 230V</div> 		2.Values																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</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>0.142</td><td>0.181</td><td>0.203</td></tr><tr><td>4.0</td><td>1.225</td><td>0.667</td><td>0.612</td></tr><tr><td>8.0</td><td>2.263</td><td>1.175</td><td>1.049</td></tr><tr><td>12.0</td><td>3.300</td><td>1.684</td><td>1.490</td></tr><tr><td>16.0</td><td>4.327</td><td>2.190</td><td>1.931</td></tr><tr><td>20.0</td><td>5.358</td><td>2.697</td><td>2.373</td></tr><tr><td>24.0</td><td>6.395</td><td>3.208</td><td>2.814</td></tr><tr><td>28.0</td><td>7.453</td><td>3.722</td><td>3.256</td></tr><tr><td>32.0</td><td>-</td><td>4.232</td><td>3.704</td></tr><tr><td>34.0</td><td>-</td><td>4.490</td><td>3.929</td></tr><tr><td>37.4</td><td>-</td><td>4.935</td><td>4.315</td></tr></table>				Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.142	0.181	0.203	4.0	1.225	0.667	0.612	8.0	2.263	1.175	1.049	12.0	3.300	1.684	1.490	16.0	4.327	2.190	1.931	20.0	5.358	2.697	2.373	24.0	6.395	3.208	2.814	28.0	7.453	3.722	3.256	32.0	-	4.232	3.704	34.0	-	4.490	3.929	37.4	-	4.935	4.315
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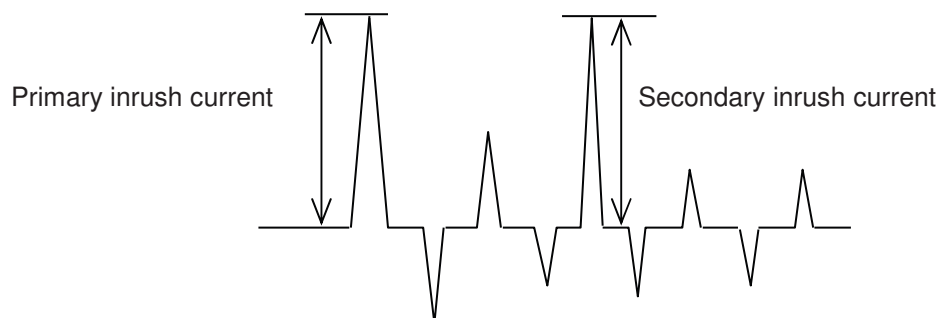
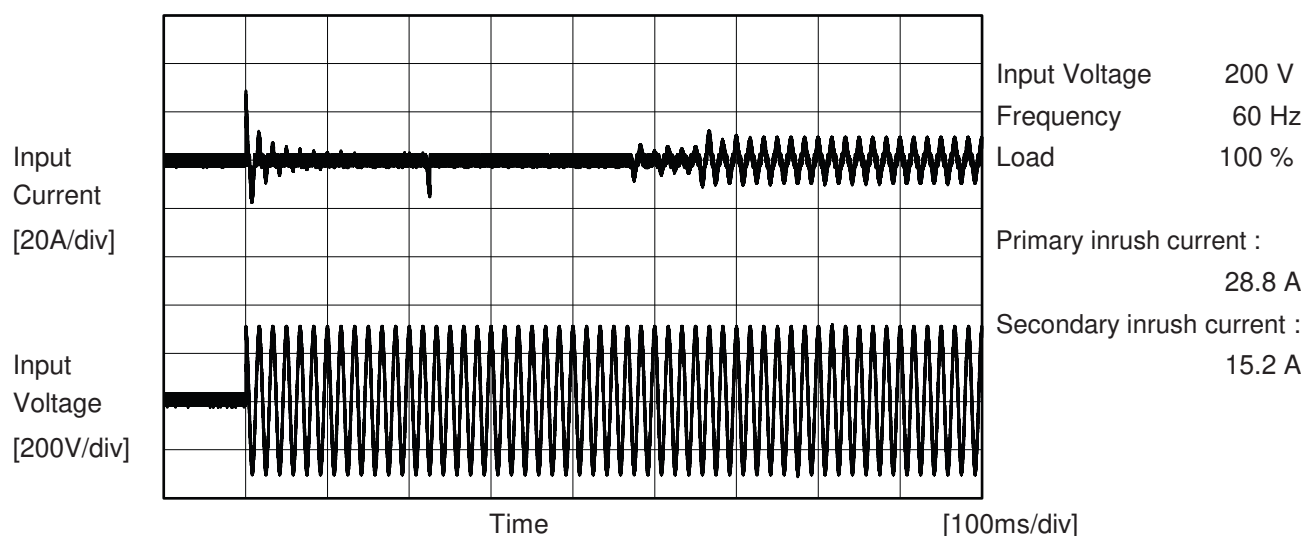
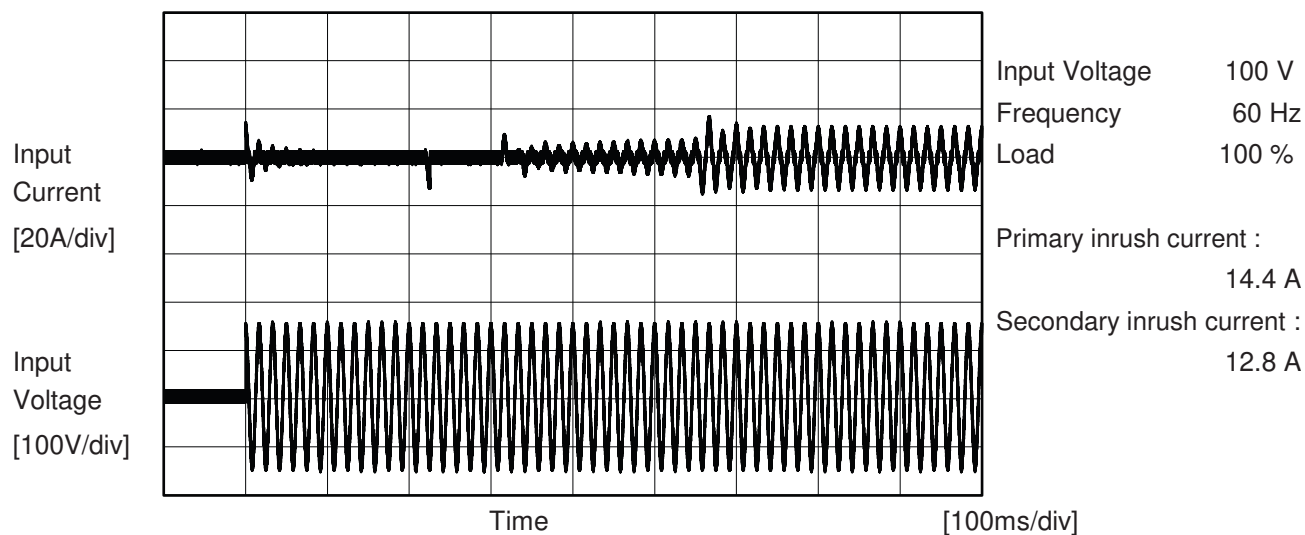
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Model	AEA800F-24	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		Temperature 25°C Testing Circuitry Figure B
AEA800F-24		
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

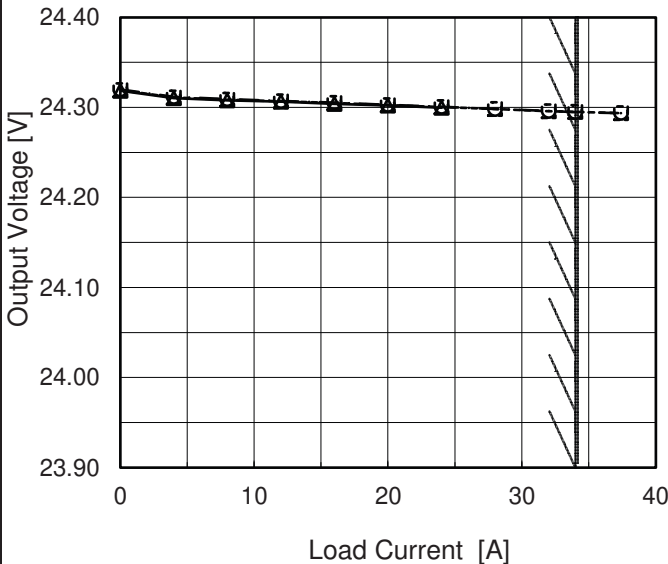
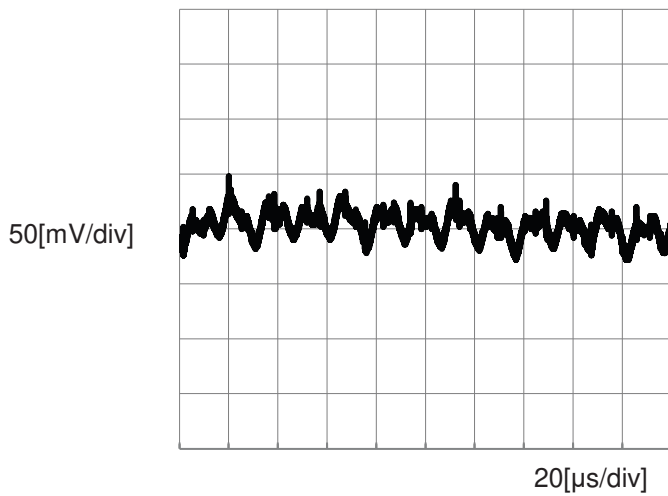
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

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Model		AEA800F-24		Temperature Testing Circuitry	25°C Figure A
Item		Line Regulation			
Object		+24V34A			
1.Graph				2.Values	
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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**COSEL**

Model	AEA800F-24	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+24V34A																																																					
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>24.319</td><td>24.319</td><td>24.320</td></tr><tr><td>4.0</td><td>24.310</td><td>24.311</td><td>24.312</td></tr><tr><td>8.0</td><td>24.308</td><td>24.308</td><td>24.309</td></tr><tr><td>12.0</td><td>24.306</td><td>24.307</td><td>24.307</td></tr><tr><td>16.0</td><td>24.304</td><td>24.305</td><td>24.305</td></tr><tr><td>20.0</td><td>24.302</td><td>24.303</td><td>24.303</td></tr><tr><td>24.0</td><td>24.300</td><td>24.301</td><td>24.301</td></tr><tr><td>28.0</td><td>--</td><td>24.298</td><td>24.298</td></tr><tr><td>32.0</td><td>--</td><td>24.296</td><td>24.296</td></tr><tr><td>34.0</td><td>--</td><td>24.295</td><td>24.295</td></tr><tr><td>37.4</td><td>--</td><td>24.294</td><td>24.294</td></tr></table>		Load Current [A]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	24.319	24.319	24.320	4.0	24.310	24.311	24.312	8.0	24.308	24.308	24.309	12.0	24.306	24.307	24.307	16.0	24.304	24.305	24.305	20.0	24.302	24.303	24.303	24.0	24.300	24.301	24.301	28.0	--	24.298	24.298	32.0	--	24.296	24.296	34.0	--	24.295	24.295	37.4	--	24.294	24.294
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	24.319	24.319	24.320																																																			
4.0	24.310	24.311	24.312																																																			
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12.0	24.306	24.307	24.307																																																			
16.0	24.304	24.305	24.305																																																			
20.0	24.302	24.303	24.303																																																			
24.0	24.300	24.301	24.301																																																			
28.0	--	24.298	24.298																																																			
32.0	--	24.296	24.296																																																			
34.0	--	24.295	24.295																																																			
37.4	--	24.294	24.294																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
Object	+24V34A	Testing Circuitry	Figure C																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>200V</div></div><div><div>Load</div><div>100%</div></div></div> 																																																						

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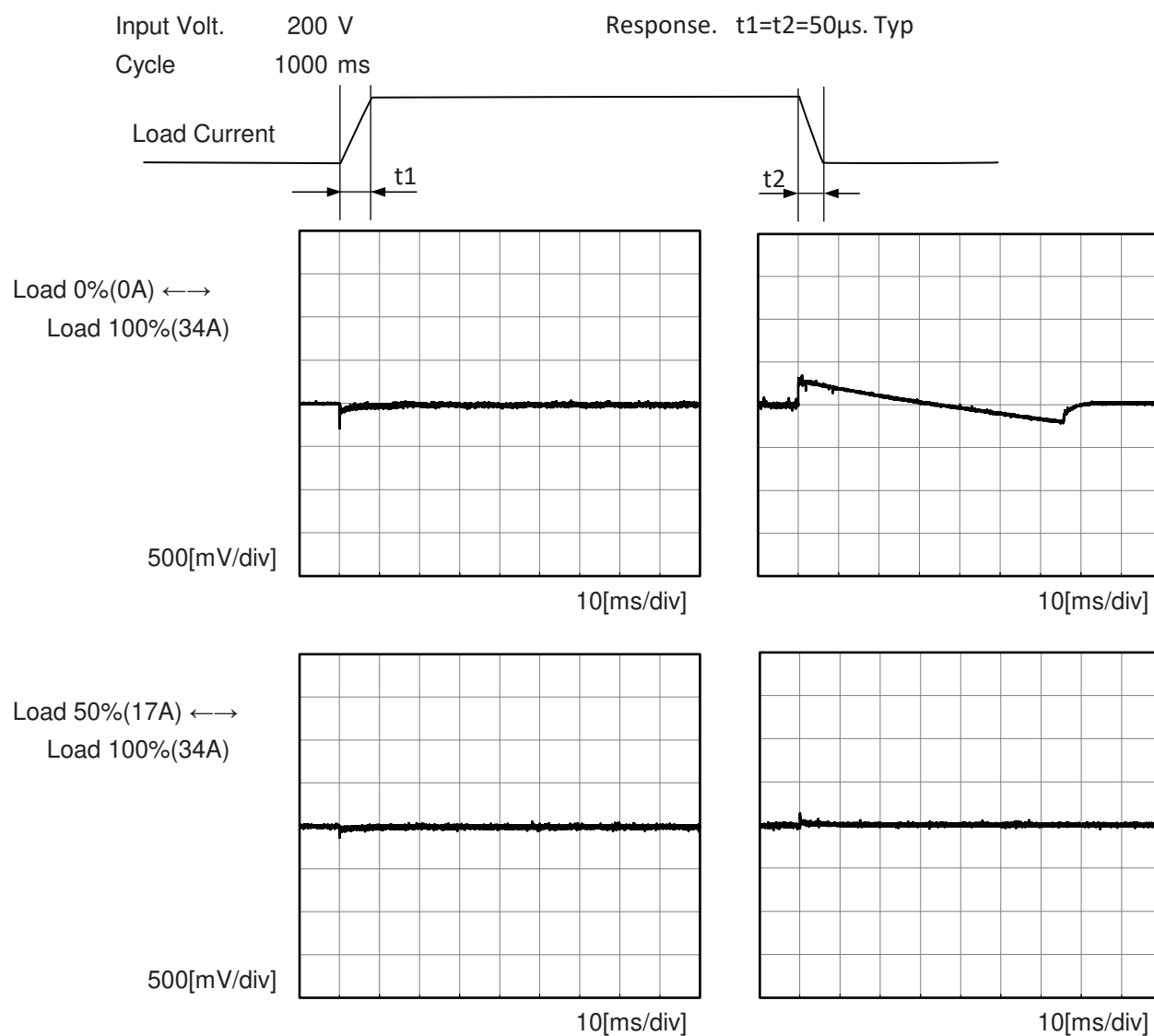
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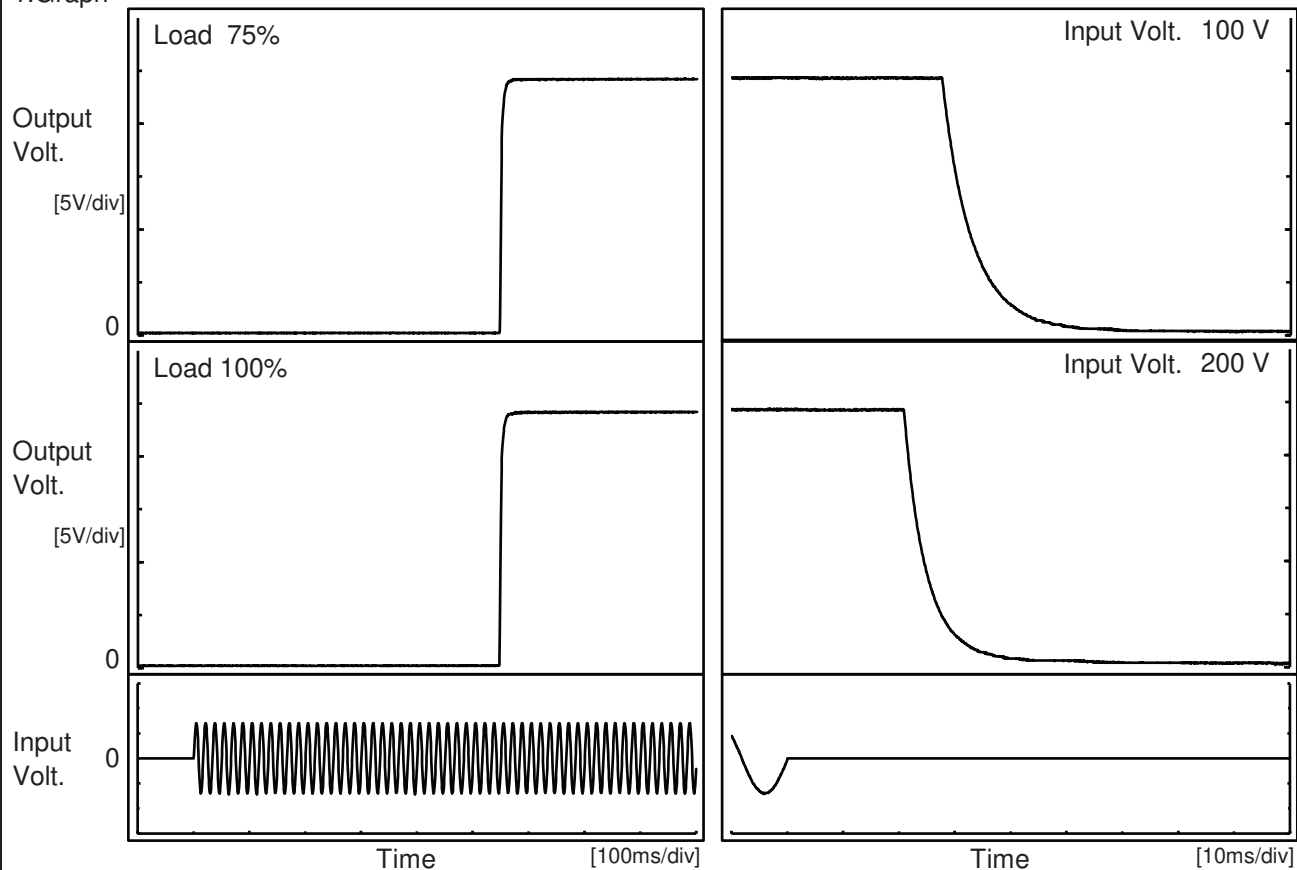
Model	AEA800F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+24V34A	



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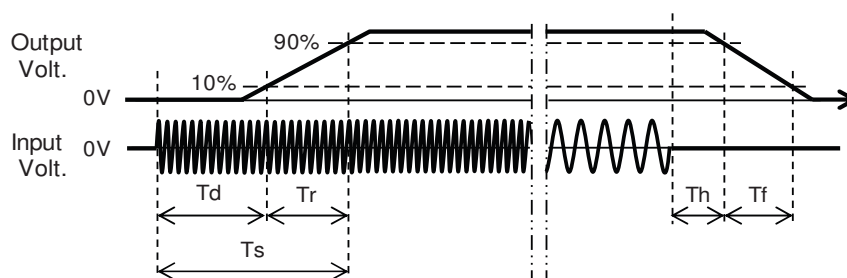
Model	AEA800F-24	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+24V34A	

## 1.Graph



## 2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
100 %		548.0	6.0	554.4	28.0	12.5
100 %		547.5	6.0	553.5	21.3	9.7



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<div>Model</div> <div>AEA800F-24</div>		<div>Temperature</div> <div>25°C</div> <div>Testing Circuitry</div> <div>Figure A</div>																																
<div>Item</div> <div>Hold-Up Time</div>																																		
<div>Object</div> <div>+24V34A</div>																																		
<div>1.Graph</div> <div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div></div><div><div><div>Hold-Up Time [ms]</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><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>		<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>42</td><td>34 ※1</td></tr><tr><td>90</td><td>41</td><td>28 ※2</td></tr><tr><td>100</td><td>41</td><td>28 ※2</td></tr><tr><td>200</td><td>41</td><td>23</td></tr><tr><td>230</td><td>41</td><td>23</td></tr><tr><td>264</td><td>42</td><td>24</td></tr><tr><td>280</td><td>44</td><td>24</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 75%</div></div>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	42	34 ※1	90	41	28 ※2	100	41	28 ※2	200	41	23	230	41	23	264	42	24	280	44	24	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																	
	Load 50%	Load 100%																																
85	42	34 ※1																																
90	41	28 ※2																																
100	41	28 ※2																																
200	41	23																																
230	41	23																																
264	42	24																																
280	44	24																																
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		<div>BC-11889</div>																																

Model		AEA800F-24		Temperature 25°C Testing Circuitry Figure A																																																				
Item		Instantaneous Interruption Compensation																																																						
Object		+24V34A																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div> <div>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div>		2.Values																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</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>-</td><td>-</td><td>-</td></tr><tr><td>4.0</td><td>165</td><td>165</td><td>166</td></tr><tr><td>8.0</td><td>85</td><td>85</td><td>86</td></tr><tr><td>12.0</td><td>56</td><td>57</td><td>58</td></tr><tr><td>16.0</td><td>43</td><td>43</td><td>43</td></tr><tr><td>20.0</td><td>35</td><td>34</td><td>35</td></tr><tr><td>24.0</td><td>29</td><td>29</td><td>28</td></tr><tr><td>28.0</td><td>23</td><td>24</td><td>24</td></tr><tr><td>32.0</td><td>-</td><td>21</td><td>21</td></tr><tr><td>34.0</td><td>-</td><td>20</td><td>20</td></tr><tr><td>37.4</td><td>-</td><td>18</td><td>18</td></tr></table>				Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	4.0	165	165	166	8.0	85	85	86	12.0	56	57	58	16.0	43	43	43	20.0	35	34	35	24.0	29	29	28	28.0	23	24	24	32.0	-	21	21	34.0	-	20	20	37.4	-	18	18
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	-	-	-																																																					
4.0	165	165	166																																																					
8.0	85	85	86																																																					
12.0	56	57	58																																																					
16.0	43	43	43																																																					
20.0	35	34	35																																																					
24.0	29	29	28																																																					
28.0	23	24	24																																																					
32.0	-	21	21																																																					
34.0	-	20	20																																																					
37.4	-	18	18																																																					
Note: Slanted line shows the range of the rated load current.																																																								

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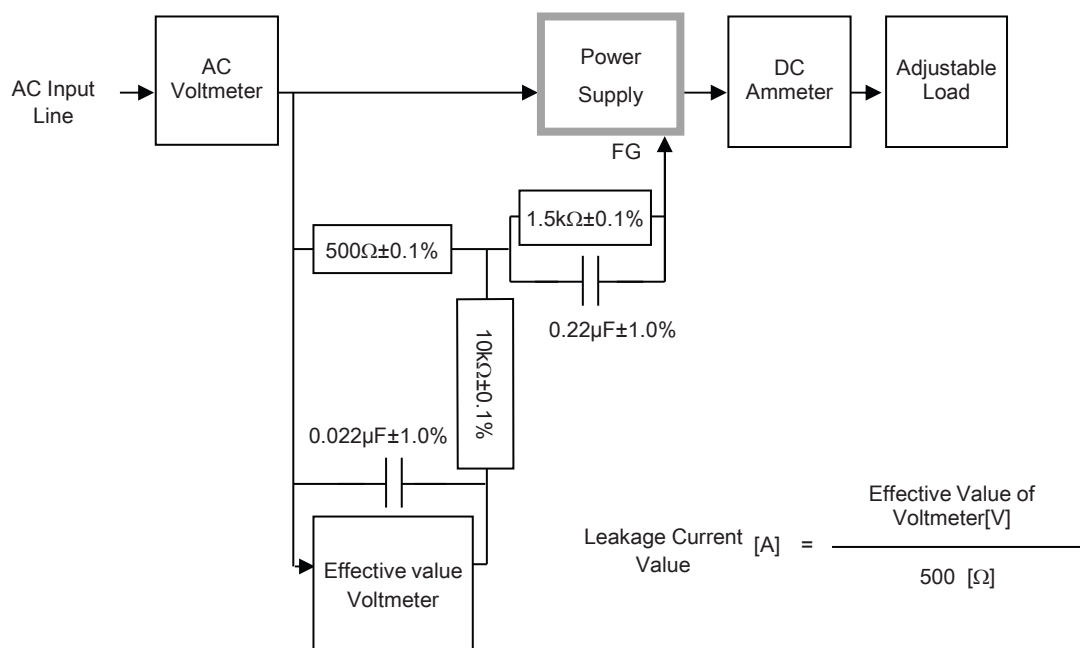
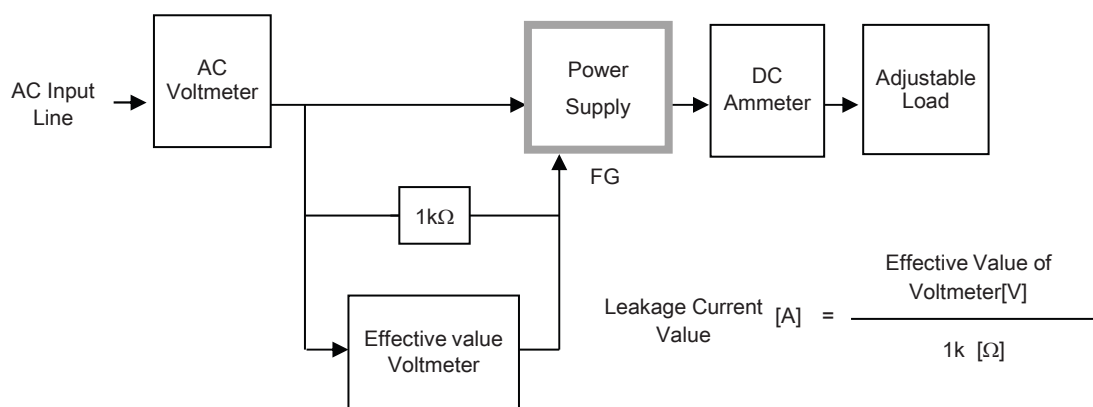
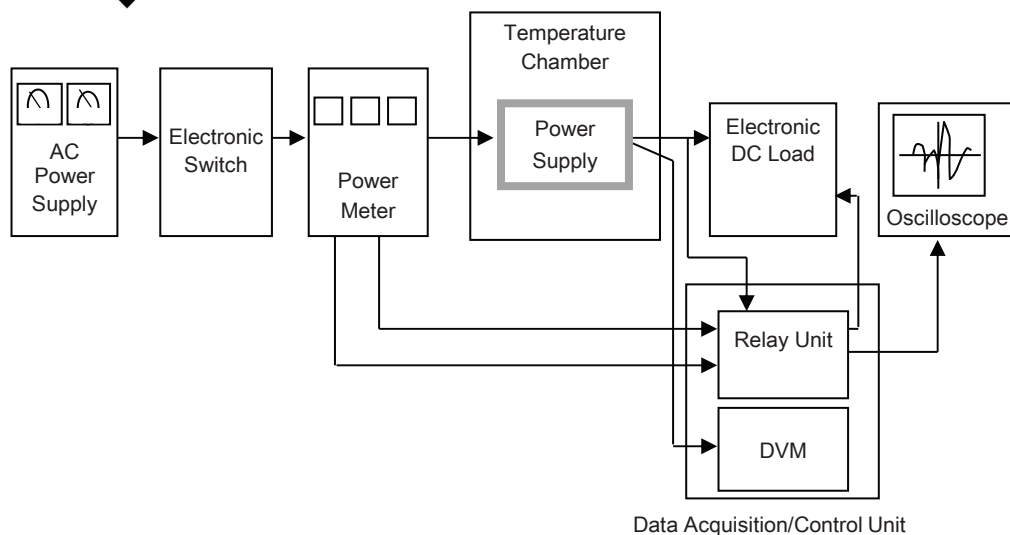
Model	AEA800F-24																																																																	
Item	Overcurrent Protection		Temperature 25°C Testing Circuitry Figure A																																																															
Object	+24V34A																																																																	
1.Graph		2.Values																																																																
<div><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><p>Overcurrent protection is Hiccup mode</p></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>24</td><td>73.00</td><td>79.50</td><td>79.50</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><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><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>		Output Voltage [V]	Load Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	24	73.00	79.50	79.50	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Output Voltage [V]	Load Current [A]																																																																	
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																															
24	73.00	79.50	79.50																																																															
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		Testing Circuitry    Figure A		
Model	AEA800F-24			
Item	Ambient Temperature Drift			
Object	+24V34A			
1.Values <span style="float:right">Load 100%</span>				
Ambient Temperature[°C]	Output Voltage [V]			
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V	
	-20	24.142	24.142	24.142
	25	24.291	24.291	24.291
	50	24.333	24.333	24.334
Item    Minimum Input Voltage for Regulated Output Voltage			Testing Circuitry    Figure A	
Object	+24V34A			
1.Values				
Ambient Temperature[°C]	Input Voltage [V]			
	Load 50%	Load 100%		
	-20	72	72	
	25	73	73	
	50	73	73	
Item    Overvoltage Protection			Testing Circuitry    Figure A	
Object	+24V34A			
1.Values <span style="float:right">Load 0%</span>				
Ambient Temperature[°C]	Operating Point [V]			
	Input Volt. 100V	Input Volt. 200V		
	-20	30.75	30.70	
	25	31.74	31.74	
	50	32.27	32.27	

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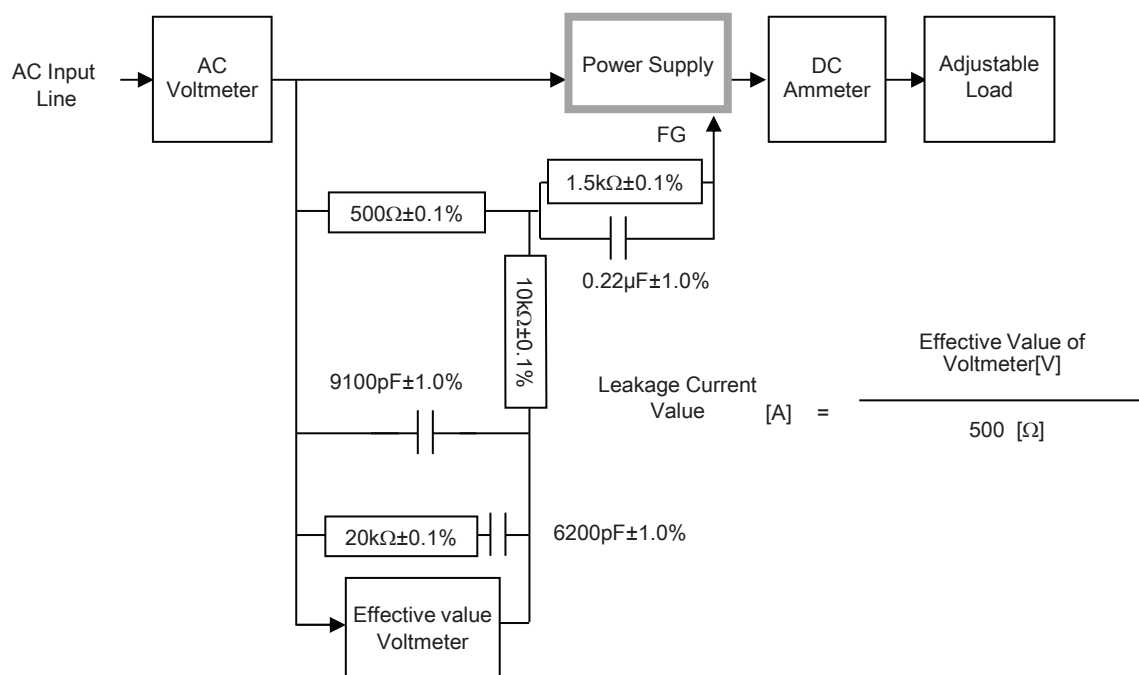


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5 )

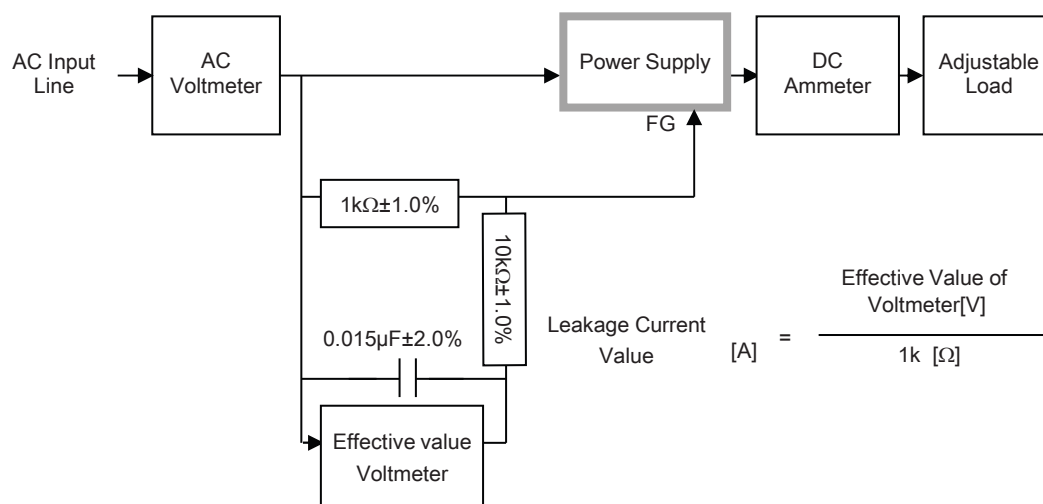


Figure B-4 ( IEC60601-1)

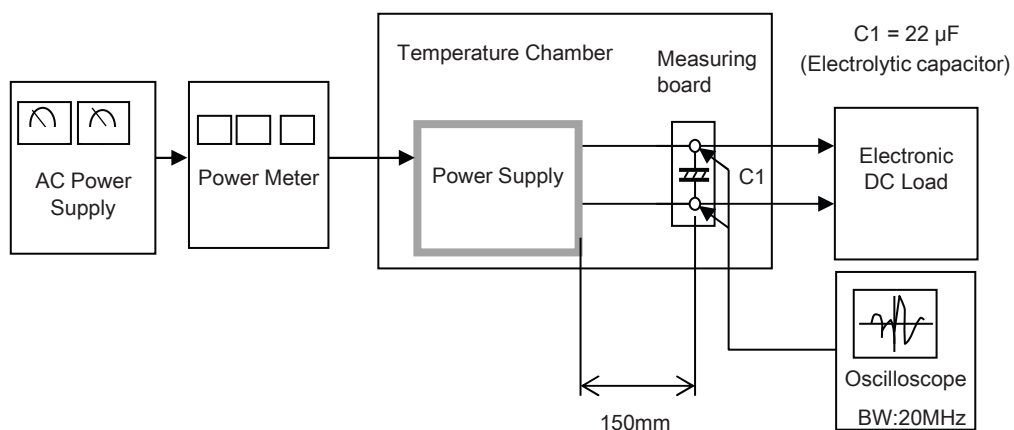


Figure C