



# TEST DATA OF AEA1000F-36

Regulated DC Power Supply  
July 6, 2021

Approved by : Jun Uchida  
Design Manager

Prepared by : Yuto Takahashi  
Design Engineer

**COSEL CO.,LTD.**

## CONTENTS

1.Input Current (by Load Current) . . . . .	1
2.Efficiency (by Load Current) . . . . .	2
3.Power Factor (by Load Current) . . . . .	3
4.Inrush Current . . . . .	4
5.Leakage Current . . . . .	5
6.Line Regulation . . . . .	6
7.Load Regulation . . . . .	7
8.Ripple-Noise . . . . .	7
9.Dynamic Load Response . . . . .	8
10.Rise and Fall Time . . . . .	9
11.Hold-Up Time . . . . .	10
12.Instantaneous Interruption Compensation . . . . .	11
13.Overcurrent Protection . . . . .	12
14.Ambient Temperature Drift . . . . .	13
15.Minimum Input Voltage for Regulated Output Voltage . . . . .	13
16.Overvoltage Protection . . . . .	13
17.Figure of Testing Circuitry . . . . .	14

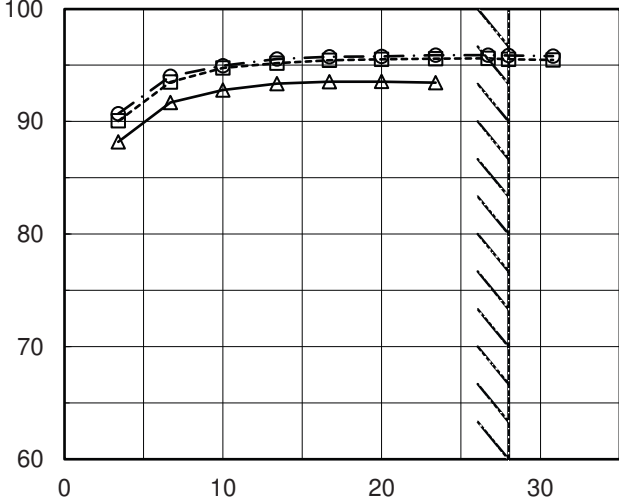
(Final Page 15)

**COSEL**

Model		AEA1000F-36		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Input Current (by Load Current)																																																						
Object		_____																																																						
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> <div><p>Input Current [A]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current.</p></div>				<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>0.106</td><td>0.163</td><td>0.187</td></tr><tr><td>3.4</td><td>1.601</td><td>0.843</td><td>0.755</td></tr><tr><td>6.7</td><td>2.888</td><td>1.499</td><td>1.321</td></tr><tr><td>10.0</td><td>4.150</td><td>2.133</td><td>1.878</td></tr><tr><td>13.4</td><td>5.430</td><td>2.778</td><td>2.447</td></tr><tr><td>16.7</td><td>6.680</td><td>3.402</td><td>2.994</td></tr><tr><td>20.0</td><td>7.920</td><td>4.020</td><td>3.528</td></tr><tr><td>23.4</td><td>9.230</td><td>4.670</td><td>4.090</td></tr><tr><td>26.7</td><td>-</td><td>5.280</td><td>4.630</td></tr><tr><td>28.0</td><td>-</td><td>5.530</td><td>4.840</td></tr><tr><td>30.8</td><td>-</td><td>6.050</td><td>5.300</td></tr></table>		Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.106	0.163	0.187	3.4	1.601	0.843	0.755	6.7	2.888	1.499	1.321	10.0	4.150	2.133	1.878	13.4	5.430	2.778	2.447	16.7	6.680	3.402	2.994	20.0	7.920	4.020	3.528	23.4	9.230	4.670	4.090	26.7	-	5.280	4.630	28.0	-	5.530	4.840	30.8	-	6.050	5.300
Load Current [A]	Input Current [A]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	0.106	0.163	0.187																																																					
3.4	1.601	0.843	0.755																																																					
6.7	2.888	1.499	1.321																																																					
10.0	4.150	2.133	1.878																																																					
13.4	5.430	2.778	2.447																																																					
16.7	6.680	3.402	2.994																																																					
20.0	7.920	4.020	3.528																																																					
23.4	9.230	4.670	4.090																																																					
26.7	-	5.280	4.630																																																					
28.0	-	5.530	4.840																																																					
30.8	-	6.050	5.300																																																					

1

BC-11788

Model		AEA1000F-36		Temperature Testing Circuitry	25°C Figure A
Item		Efficiency (by Load Current)			
Object		_____			
1.Graph					
		<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div></div>			
Efficiency [%]					
Load Current [A]					
Note: Slanted line shows the range of the rated load current.					
2.Values					
Load Current [A]		Efficiency [%]			
		Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	
0.0		-	-	-	
3.4		88.2	90.1	90.7	
6.7		91.7	93.5	94.0	
10.0		92.8	94.8	94.9	
13.4		93.4	95.2	95.6	
16.7		93.5	95.4	95.8	
20.0		93.6	95.5	95.8	
23.4		93.4	95.6	95.9	
26.7		-	95.6	95.9	
28.0		-	95.5	95.9	
30.8		-	95.5	95.8	

- 2 -

BC-11788

**COSEL**

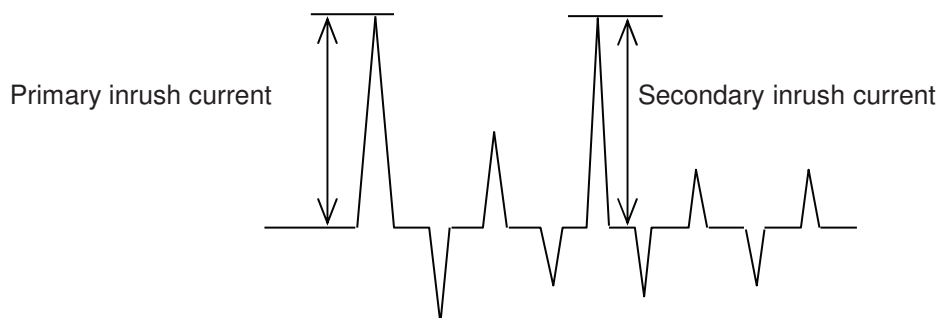
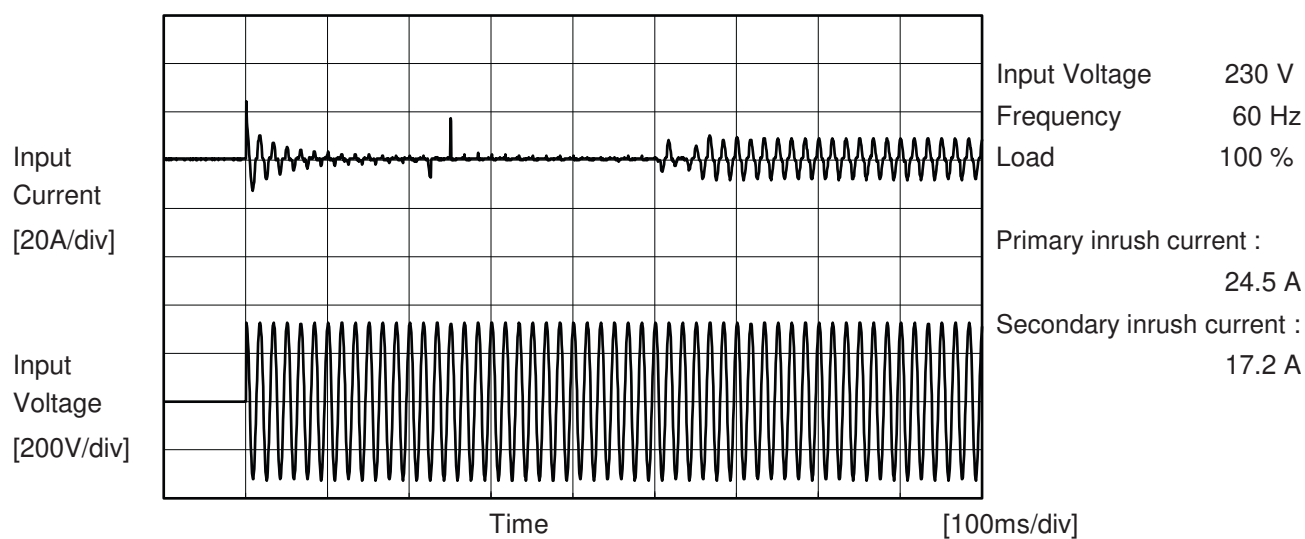
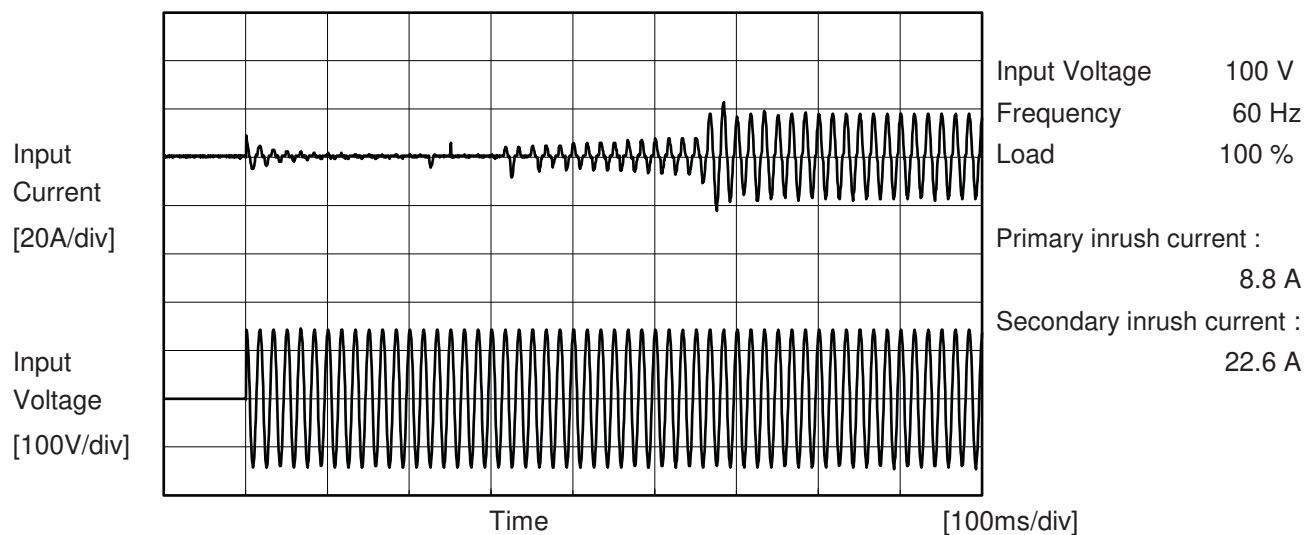
Model		AEA1000F-36		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Power Factor (by Load Current)																																																						
Object		_____																																																						
1.Graph				2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div> <p>Power Factor</p> <p>Load Current [A]</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</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>0.395</td><td>0.107</td><td>0.074</td></tr><tr><td>3.4</td><td>0.867</td><td>0.806</td><td>0.778</td></tr><tr><td>6.7</td><td>0.915</td><td>0.864</td><td>0.848</td></tr><tr><td>10.0</td><td>0.940</td><td>0.893</td><td>0.882</td></tr><tr><td>13.4</td><td>0.954</td><td>0.915</td><td>0.899</td></tr><tr><td>16.7</td><td>0.966</td><td>0.929</td><td>0.914</td></tr><tr><td>20.0</td><td>0.973</td><td>0.939</td><td>0.928</td></tr><tr><td>23.4</td><td>0.979</td><td>0.946</td><td>0.936</td></tr><tr><td>26.7</td><td>-</td><td>0.955</td><td>0.944</td></tr><tr><td>28.0</td><td>-</td><td>0.957</td><td>0.946</td></tr><tr><td>30.8</td><td>-</td><td>0.961</td><td>0.952</td></tr></table>		Load Current [A]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.395	0.107	0.074	3.4	0.867	0.806	0.778	6.7	0.915	0.864	0.848	10.0	0.940	0.893	0.882	13.4	0.954	0.915	0.899	16.7	0.966	0.929	0.914	20.0	0.973	0.939	0.928	23.4	0.979	0.946	0.936	26.7	-	0.955	0.944	28.0	-	0.957	0.946	30.8	-	0.961	0.952
Load Current [A]	Power Factor																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	0.395	0.107	0.074																																																					
3.4	0.867	0.806	0.778																																																					
6.7	0.915	0.864	0.848																																																					
10.0	0.940	0.893	0.882																																																					
13.4	0.954	0.915	0.899																																																					
16.7	0.966	0.929	0.914																																																					
20.0	0.973	0.939	0.928																																																					
23.4	0.979	0.946	0.936																																																					
26.7	-	0.955	0.944																																																					
28.0	-	0.957	0.946																																																					
30.8	-	0.961	0.952																																																					
Note: Slanted line shows the range of the rated load current.																																																								

- 3 -

BC-11788

**COSEL**

Model	AEA1000F-36	Temperature    25°C Testing Circuitry   Figure A	
Item	Inrush Current		
Object	_____		





Model		Temperature 25°C Testing Circuitry Figure B
AEA1000F-36		
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	0.10	0.18	0.20	Operation
		One of phases	0.15	0.34	0.37	Stand by
IEC62368-1	Figure B-2	Both phases	0.08	0.17	0.19	Operation
		One of phases	0.15	0.33	0.37	Stand by
	Figure B-3	Both phases	0.08	0.17	0.19	Operation
		One of phases	0.15	0.34	0.38	Stand by
IEC60601-1	Figure B-4	Both phases	0.08	0.17	0.19	Operation
		One of phases	0.15	0.34	0.38	Stand by

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

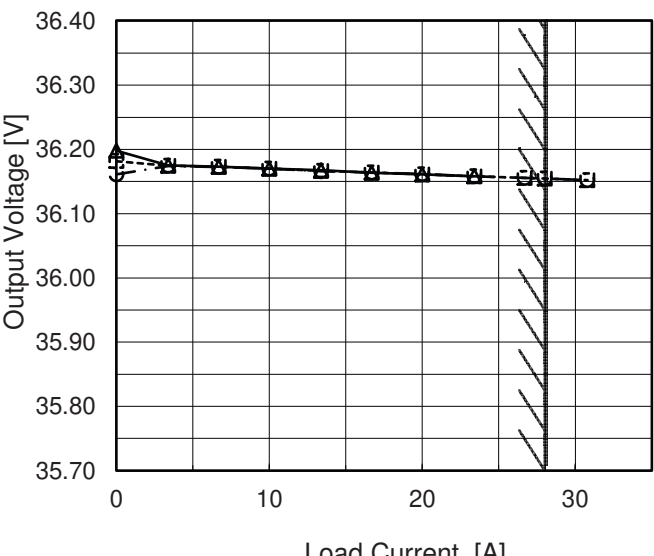
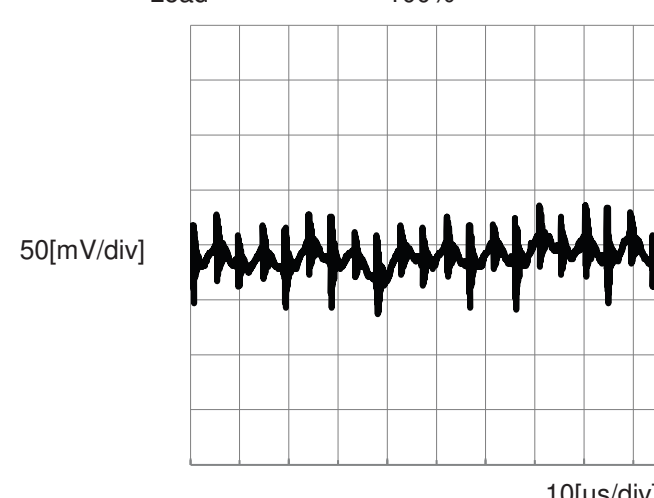
## 2.Condition

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

<div>LUCEL</div>			
Model	AEA1000F-36		
Item	Line Regulation	Temperature	25°C
Object	+36V28A	Testing Circuitry	Figure A
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>Load 50%</div><div>Load 100%</div></div> <div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>&lt;</div></div></div></div>			



**COSEL**

Model	AEA1000F-36																																																					
Item	Load Regulation	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	+36V28A																																																					
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>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 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>36.198</td><td>36.182</td><td>36.161</td></tr><tr><td>3.4</td><td>36.175</td><td>36.175</td><td>36.175</td></tr><tr><td>6.7</td><td>36.173</td><td>36.173</td><td>36.173</td></tr><tr><td>10.0</td><td>36.170</td><td>36.170</td><td>36.170</td></tr><tr><td>13.4</td><td>36.167</td><td>36.166</td><td>36.166</td></tr><tr><td>16.7</td><td>36.164</td><td>36.164</td><td>36.164</td></tr><tr><td>20.0</td><td>36.161</td><td>36.161</td><td>36.161</td></tr><tr><td>23.4</td><td>36.159</td><td>36.158</td><td>36.158</td></tr><tr><td>26.7</td><td>-</td><td>36.156</td><td>36.156</td></tr><tr><td>28.0</td><td>-</td><td>36.155</td><td>36.155</td></tr><tr><td>30.8</td><td>-</td><td>36.152</td><td>36.152</td></tr></table>		Load Current [A]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	36.198	36.182	36.161	3.4	36.175	36.175	36.175	6.7	36.173	36.173	36.173	10.0	36.170	36.170	36.170	13.4	36.167	36.166	36.166	16.7	36.164	36.164	36.164	20.0	36.161	36.161	36.161	23.4	36.159	36.158	36.158	26.7	-	36.156	36.156	28.0	-	36.155	36.155	30.8	-	36.152	36.152
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	36.198	36.182	36.161																																																			
3.4	36.175	36.175	36.175																																																			
6.7	36.173	36.173	36.173																																																			
10.0	36.170	36.170	36.170																																																			
13.4	36.167	36.166	36.166																																																			
16.7	36.164	36.164	36.164																																																			
20.0	36.161	36.161	36.161																																																			
23.4	36.159	36.158	36.158																																																			
26.7	-	36.156	36.156																																																			
28.0	-	36.155	36.155																																																			
30.8	-	36.152	36.152																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
		Testing Circuitry	Figure C																																																			
Object	+36V28A																																																					
1.Graph																																																						
<div><div><div>Input Voltage</div><div>200V</div></div><div><div>Load</div><div>100%</div></div></div> 																																																						

-

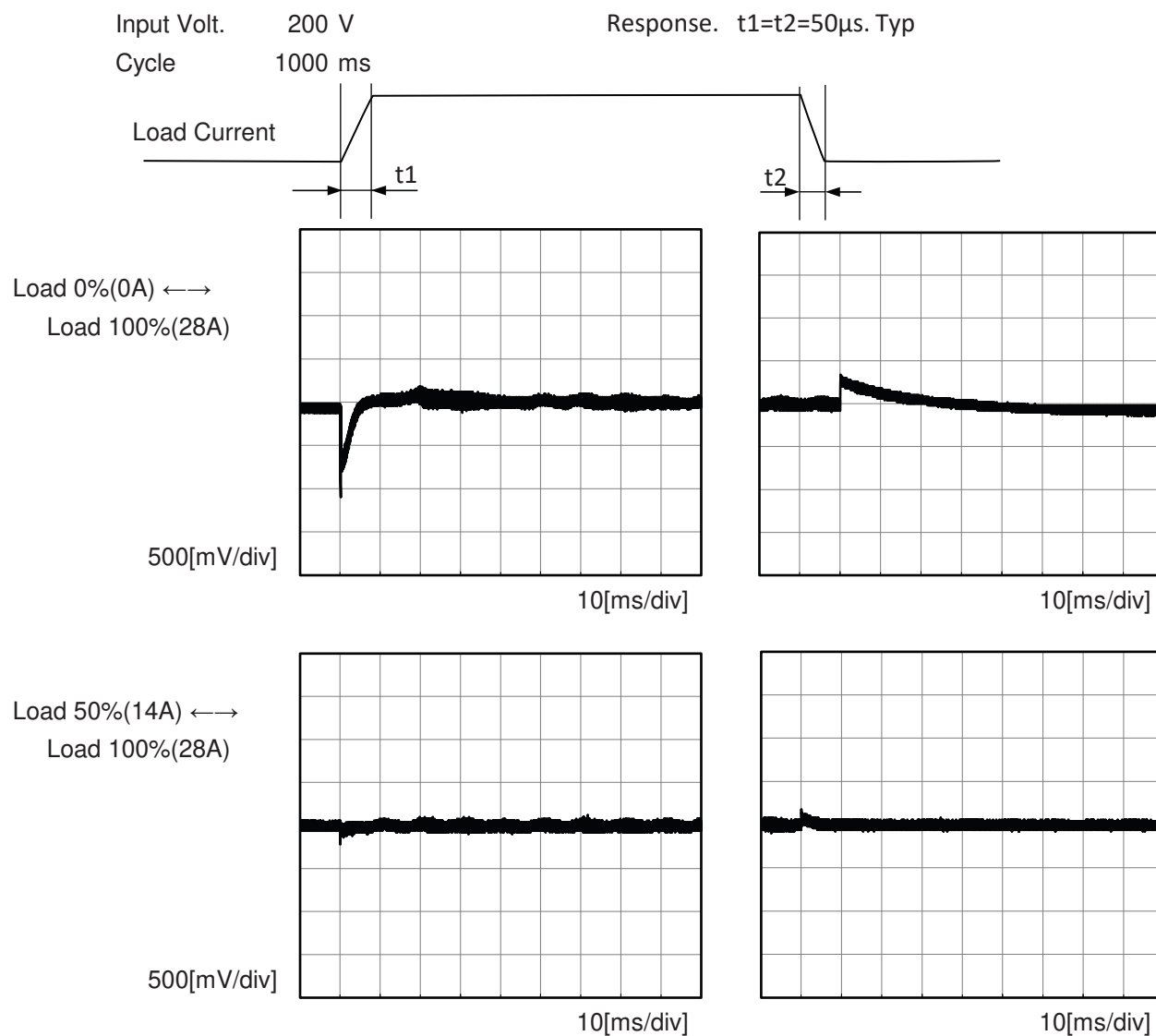
7

-

BC-11788

**COSEL**

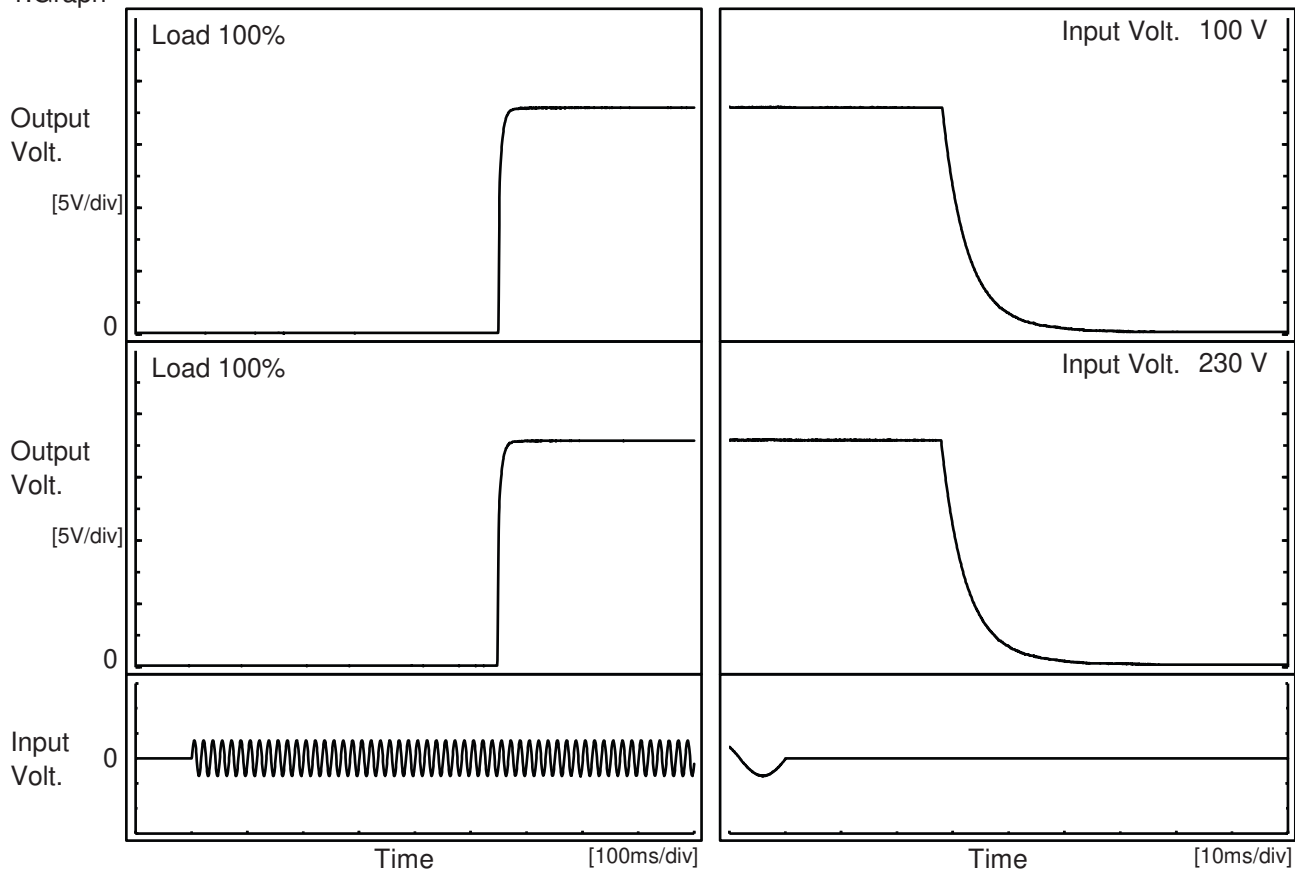
Model	AEA1000F-36	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+36V28A	



**COSEL**

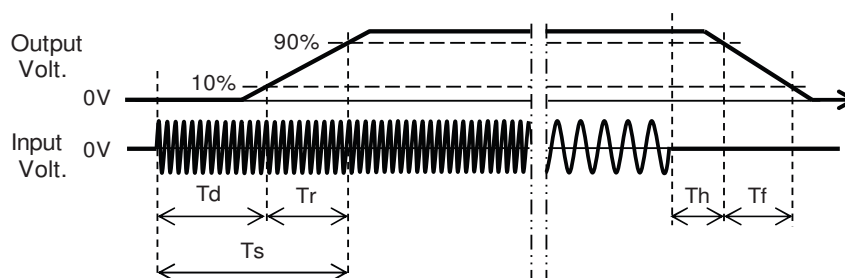
Model	AEA1000F-36	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+36V28A	

## 1.Graph



## 2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		550.0	9.5	559.5	28.5	10.7
230 V		548.5	9.5	558.0	28.3	10.7



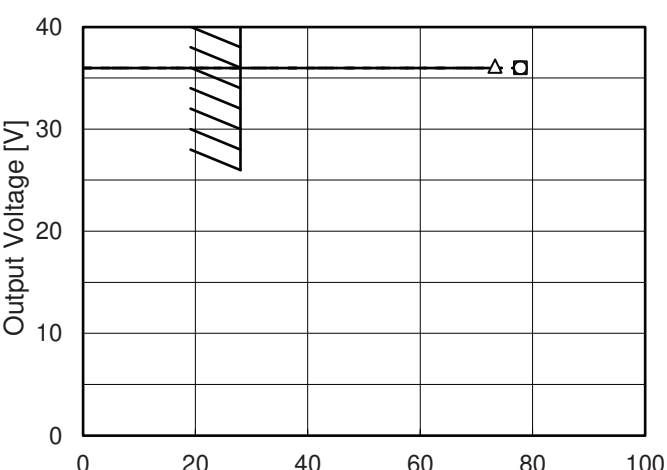
**COSEL**

Model		AEA1000F-36		Temperature 25°C																																	
Item		Hold-Up Time		Testing Circuitry Figure A																																	
Object		+36V28A																																			
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>Load 50%</div><div>Load 100%</div></div> <table><thead><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></thead><tbody><tr><td>85</td><td>55</td><td>47 ※1</td></tr><tr><td>90</td><td>55</td><td>37 ※2</td></tr><tr><td>100</td><td>55</td><td>37 ※2</td></tr><tr><td>200</td><td>55</td><td>28</td></tr><tr><td>230</td><td>56</td><td>28</td></tr><tr><td>264</td><td>56</td><td>28</td></tr><tr><td>280</td><td>59</td><td>28</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <div>※1 : Load 60%</div> <div>※2 : Load 75%</div>				Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	55	47 ※1	90	55	37 ※2	100	55	37 ※2	200	55	28	230	56	28	264	56	28	280	59	28	--	-	-	--	-	-		
Input Voltage [V]	Hold-Up Time [ms]																																				
	Load 50%	Load 100%																																			
85	55	47 ※1																																			
90	55	37 ※2																																			
100	55	37 ※2																																			
200	55	28																																			
230	56	28																																			
264	56	28																																			
280	59	28																																			
--	-	-																																			
--	-	-																																			
<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>																																					

**COSEL**

Model		AEA1000F-36		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+36V28A																																																						
1.Graph				2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>200V</div><div>230V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p>				<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>3.4</td><td>216</td><td>218</td><td>217</td></tr><tr><td>6.7</td><td>114</td><td>112</td><td>114</td></tr><tr><td>10.0</td><td>77</td><td>77</td><td>77</td></tr><tr><td>13.4</td><td>57</td><td>57</td><td>57</td></tr><tr><td>16.7</td><td>46</td><td>46</td><td>46</td></tr><tr><td>20.0</td><td>38</td><td>38</td><td>39</td></tr><tr><td>23.4</td><td>32</td><td>32</td><td>32</td></tr><tr><td>26.7</td><td>-</td><td>29</td><td>29</td></tr><tr><td>28.0</td><td>-</td><td>27</td><td>27</td></tr><tr><td>30.8</td><td>-</td><td>27</td><td>27</td></tr></table>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	3.4	216	218	217	6.7	114	112	114	10.0	77	77	77	13.4	57	57	57	16.7	46	46	46	20.0	38	38	39	23.4	32	32	32	26.7	-	29	29	28.0	-	27	27	30.8	-	27	27
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	-	-	-																																																					
3.4	216	218	217																																																					
6.7	114	112	114																																																					
10.0	77	77	77																																																					
13.4	57	57	57																																																					
16.7	46	46	46																																																					
20.0	38	38	39																																																					
23.4	32	32	32																																																					
26.7	-	29	29																																																					
28.0	-	27	27																																																					
30.8	-	27	27																																																					
Note: Slanted line shows the range of the rated load current.																																																								

**COSEL**

Model	AEA1000F-36																																																																	
Item	Overcurrent Protection	Temperature	25°C																																																															
Object	+36V28A	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> <p>Overcurrent protection is Hiccup mode.</p>		<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>36</td><td>72.68</td><td>76.85</td><td>76.85</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]	36	72.68	76.85	76.85	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Output Voltage [V]	Load Current [A]																																																																	
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																															
36	72.68	76.85	76.85																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															
--	-	-	-																																																															

**COSEL**

		Testing Circuitry    Figure A	
Model	AEA1000F-36		
Item	Ambient Temperature Drift		
Object	+36V28A		
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	36.095	36.096	36.095
25	36.161	36.162	36.162
50	36.189	36.189	36.190
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry    Figure A	
Object	+36V28A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-20	75	75	
25	75	76	
50	74	76	
Item	Overvoltage Protection	Testing Circuitry    Figure A	
Object	+36V28A		
1.Values <span style="float:right">Load 0%</span>			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 200V	
-20	46.77	46.83	
25	48.64	48.64	
50	49.64	49.64	

- 13 -

BC-11788

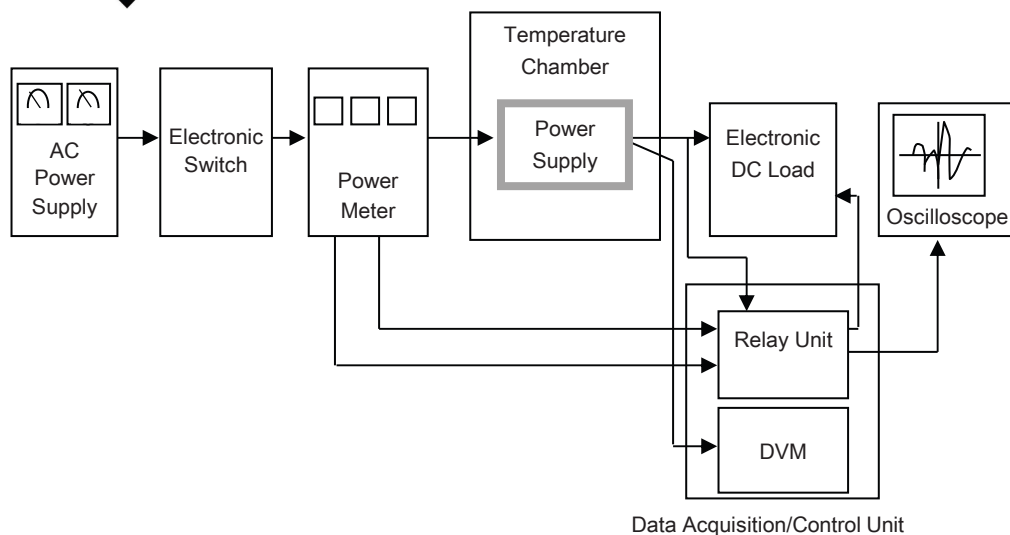


Figure A

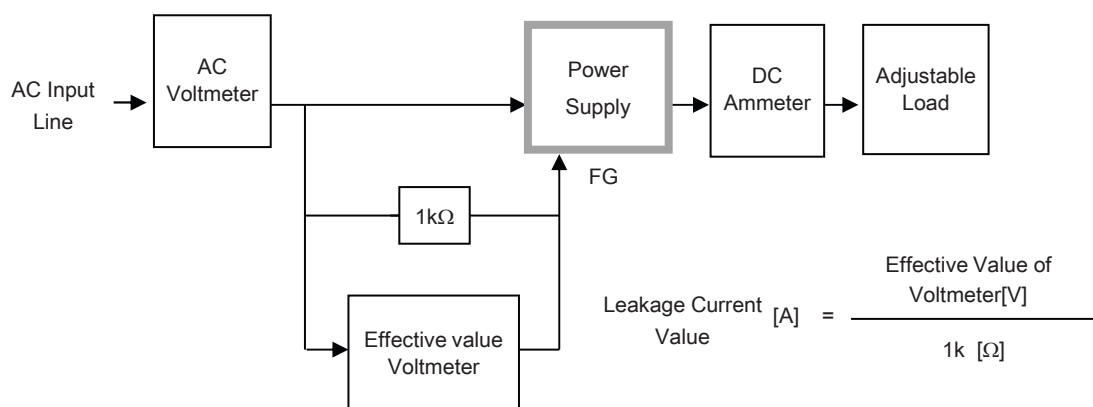


Figure B-1 ( DEN-AN )

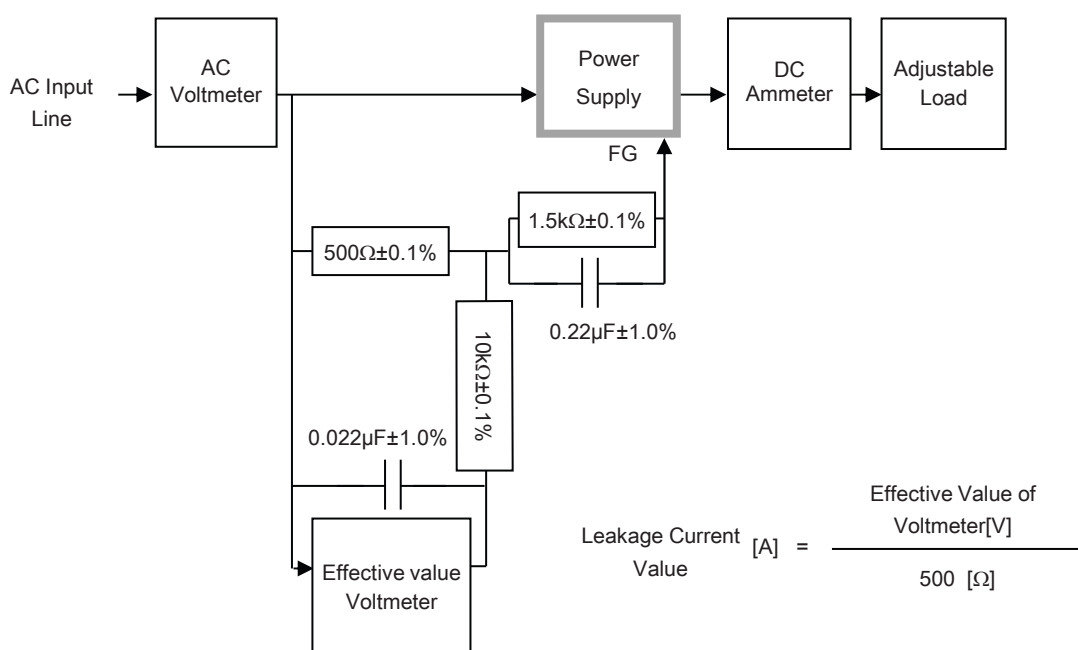


Figure B-2 ( IEC62368-1 refer to IEC60990 Fig.4 )



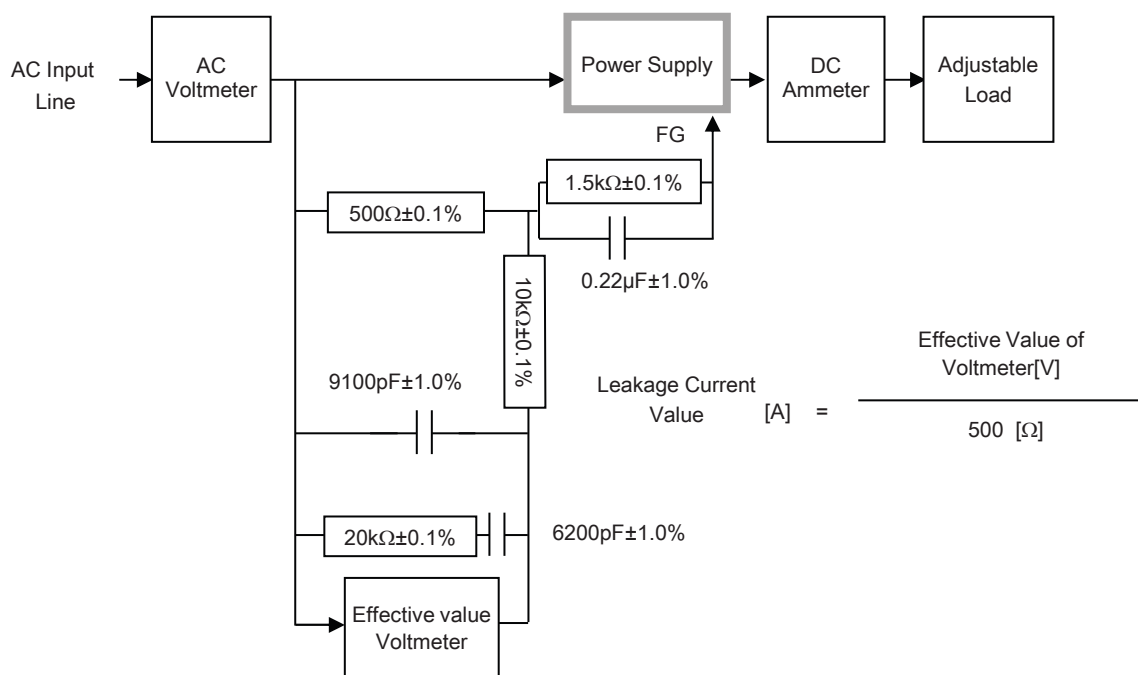


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5 )

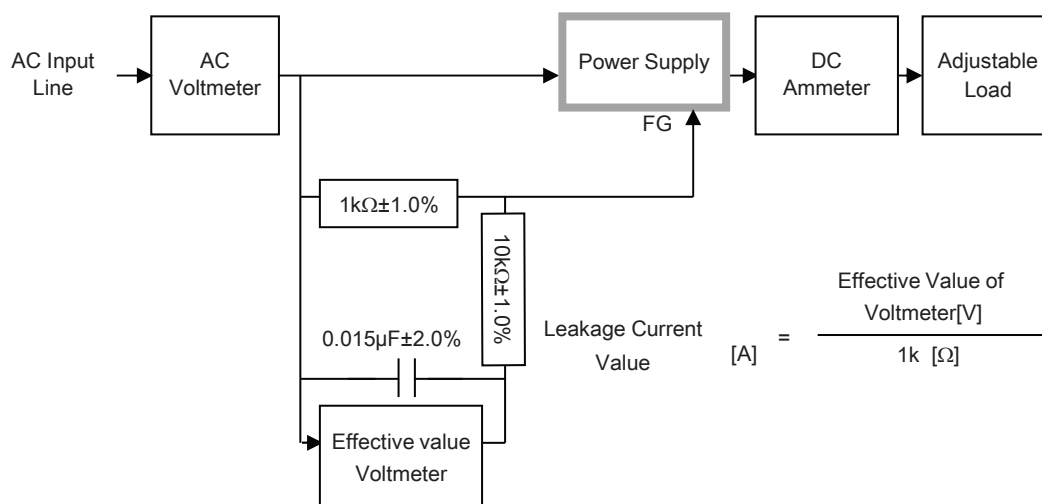


Figure B-4 ( IEC60601-1)

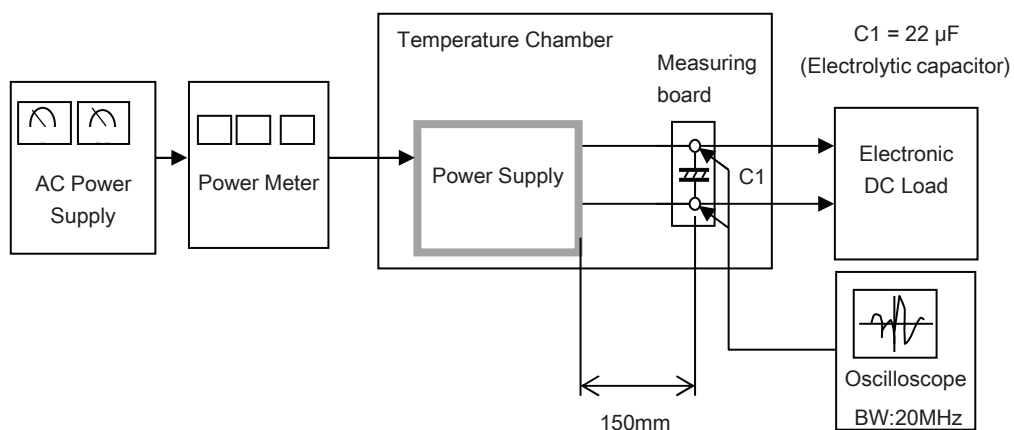


Figure C