



TEST DATA OF PJMA1500F-36

Regulated DC Power Supply
September 20, 2022

Approved by : Takashi Kajii
Design Manager

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Design Engineer

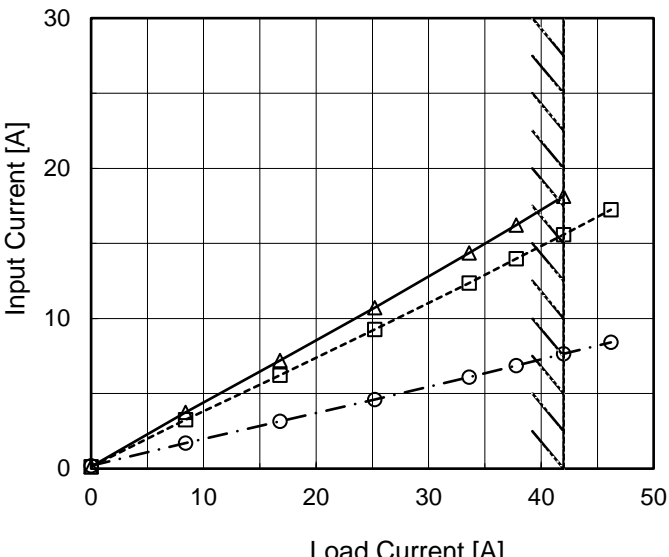
COSEL CO.,LTD.

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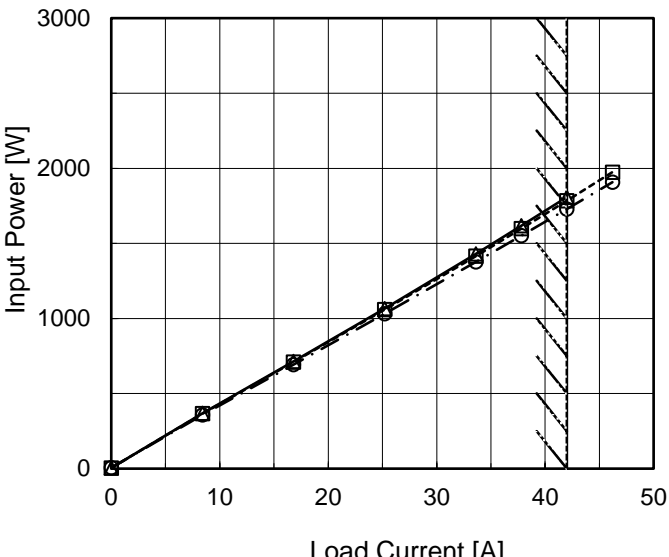
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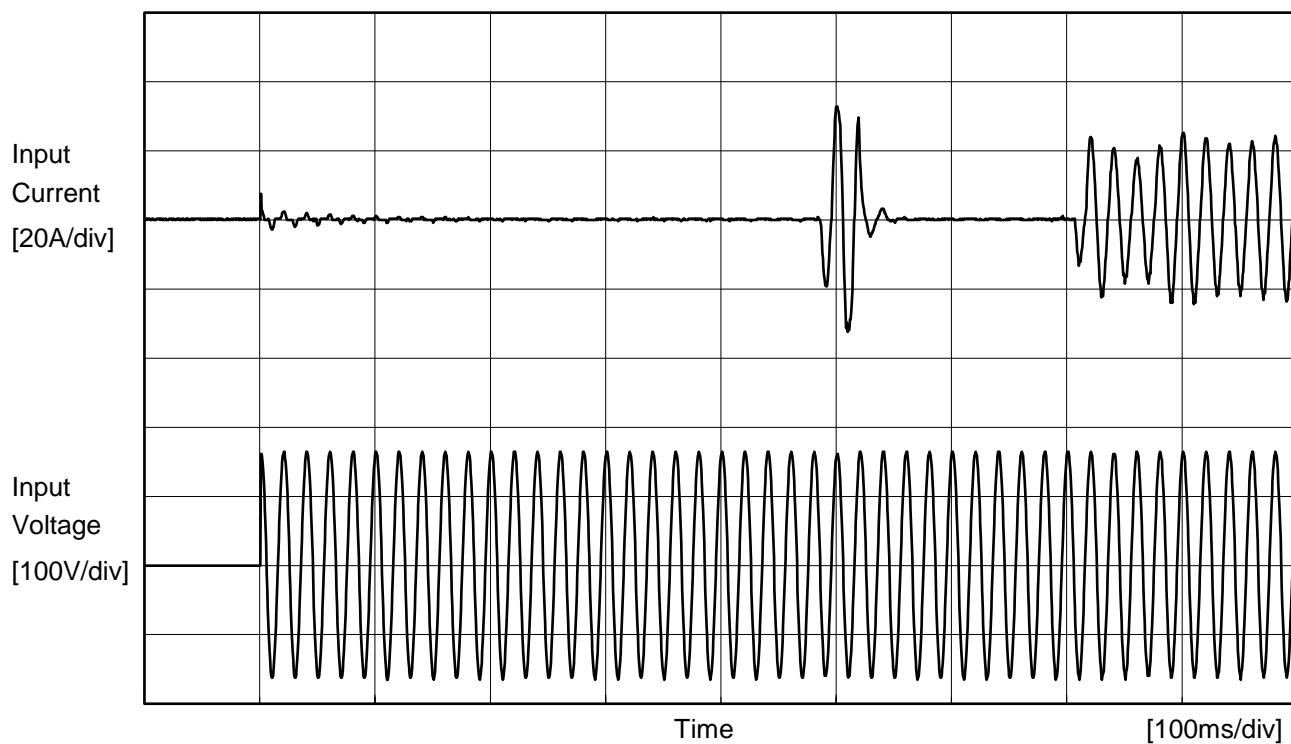
Model		PJMA1500F-36		Temperature 25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry Figure A																																																				
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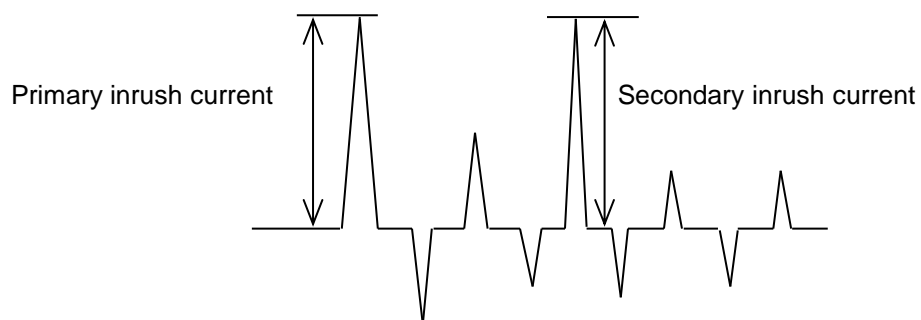
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Model	PJMA1500F-36	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	



Input Voltage 115 V
Frequency 50 Hz
Load 100 %

Primary inrush current 7.6 A
Secondary inrush current 32.8 A





Model		PJMA1500F-36	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards		Input Volt.			Note
		230 [V]	240 [V]	264 [V]	
IEC60601-1	Both phases	0.21	0.24	0.27	Operation
	One of phases	0.39	0.40	0.45	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		PJMA1500F-36		Temperature 25°C																																	
Item		Line Regulation		Testing Circuitry Figure A																																	
Object		+36V42A																																			
1.Graph				2.Values																																	
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>				<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>36.111</td><td>36.115 ※1</td></tr><tr><td>100</td><td>36.112</td><td>36.116 ※2</td></tr><tr><td>115</td><td>36.113</td><td>36.118</td></tr><tr><td>200</td><td>36.113</td><td>36.119</td></tr><tr><td>230</td><td>36.112</td><td>36.120</td></tr><tr><td>264</td><td>36.113</td><td>36.119</td></tr><tr><td>280</td><td>36.113</td><td>36.120</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> <div>※1:Load 80%</div> <div>※2:Load 90%</div>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	36.111	36.115 ※1	100	36.112	36.116 ※2	115	36.113	36.118	200	36.113	36.119	230	36.112	36.120	264	36.113	36.119	280	36.113	36.120	--	-	-	--	-	-
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Item	Ripple-Noise	Temperature	25°C																																																			
		Testing Circuitry	Figure B																																																			
Object	+36V42A																																																					
1.Graph																																																						
<div><div><div>Input Voltage</div><div>Load</div></div><div><div>115V</div><div>100%</div></div></div> <div><div><div>20[mV/div]</div><div>20[ms/div]</div></div></div>																																																						



Model	PJMA1500F-36		
Item	Dynamic Load Response	Temperature	25°C
Object	+36V42A	Testing Circuitry	Figure A

Input Volt. 115 V
Cycle 1000 ms

t1,t2 = 50 μ s

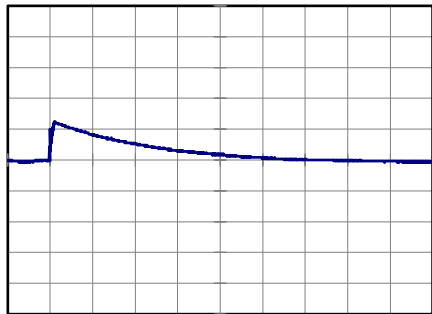
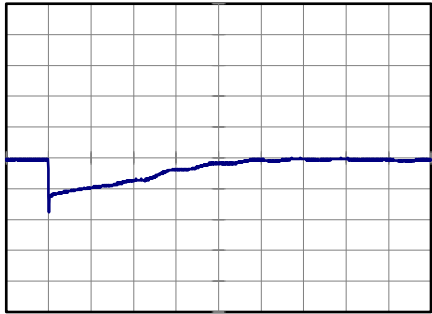
Load Current



Min.Load (0A) \longleftrightarrow
Load 100% (42A)

200 mV/div

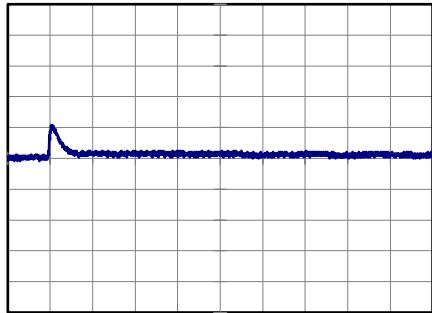
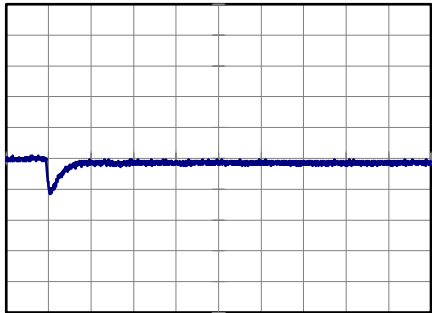
10 ms/div



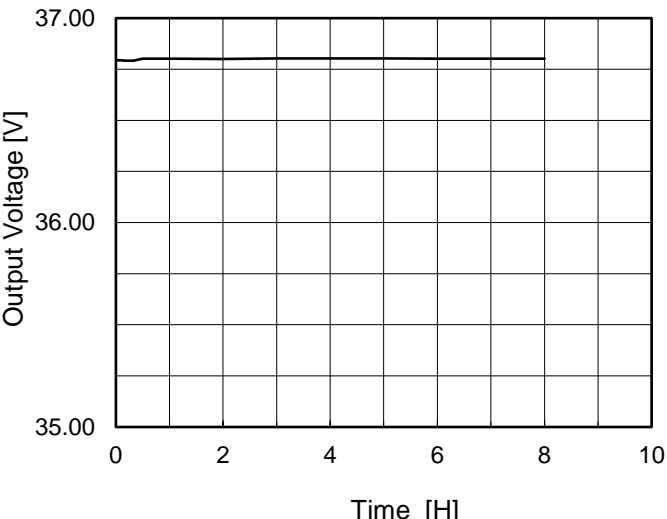
Load 50% (21A) \longleftrightarrow
Load 100% (42A)

100 mV/div

100 μ s/div



COSEL

LUCEL																									
Model	PJMA1500F-36																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+36V42A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 115V</p><p>Load 100%</p></div>		<table><thead><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr></thead><tbody><tr><td>0.0</td><td>36.794</td></tr><tr><td>0.5</td><td>36.802</td></tr><tr><td>1.0</td><td>36.802</td></tr><tr><td>2.0</td><td>36.801</td></tr><tr><td>3.0</td><td>36.803</td></tr><tr><td>4.0</td><td>36.803</td></tr><tr><td>5.0</td><td>36.803</td></tr><tr><td>6.0</td><td>36.802</td></tr><tr><td>7.0</td><td>36.802</td></tr><tr><td>8.0</td><td>36.802</td></tr></tbody></table>		Time since start [H]	Output Voltage [V]	0.0	36.794	0.5	36.802	1.0	36.802	2.0	36.801	3.0	36.803	4.0	36.803	5.0	36.803	6.0	36.802	7.0	36.802	8.0	36.802
Time since start [H]	Output Voltage [V]																								
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- 12 -

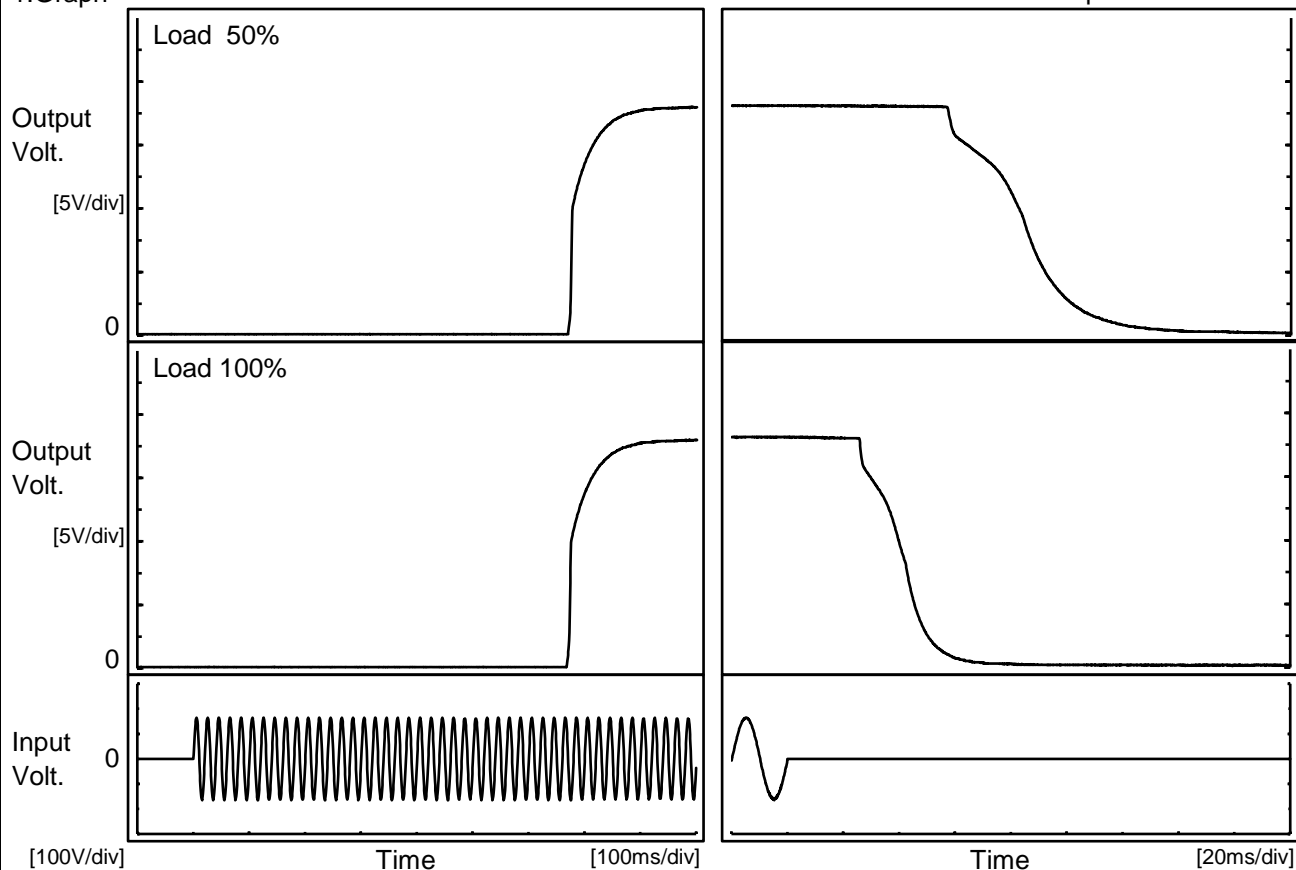
BC-11906

COSEL

Model	PJMA1500F-36	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V42A		

1.Graph

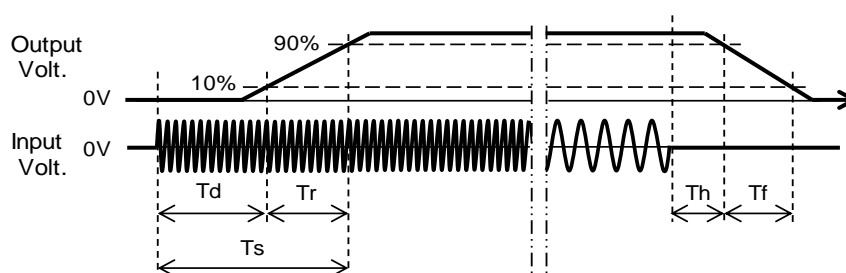
Input Volt. 115 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	674.0	61.0	735.0	58.8	47.2
100 %	671.5	61.5	733.0	26.6	25.7



COSEL

Model		PJMA1500F-36	
Item		Hold-Up Time	
Object		+36V42A	
1.Graph		2.Values	

1000

100

10

1

50

100

150

200

250

300

Hold-Up Time [ms]

Input Voltage [V]

□

Load 50%

△

Load 100%

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	54	27 ※1
100	56	28 ※2
115	57	28
200	62	31
230	62	32
264	62	32
280	62	32
--	-	-
--	-	-

※1:Load 80%

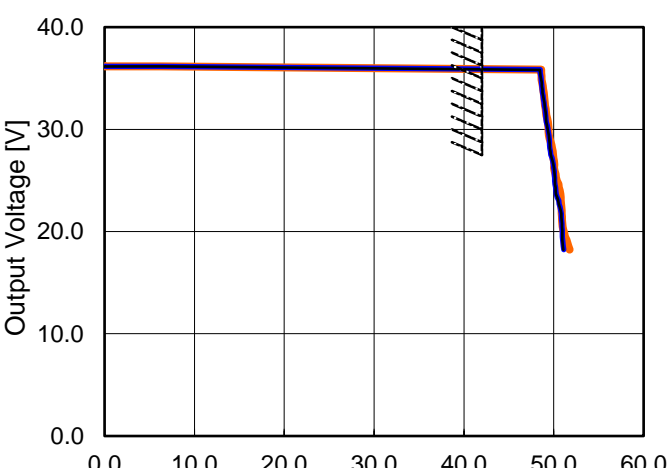
※2:Load 90%

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note: Slanted line shows the range of the rated input voltage.

COSEL

Model		PJMA1500F-36		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+36V42A																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></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>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div> <div>Note: Slanted line shows the range of the rated load current.</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. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>8.4</td><td>22</td><td>26</td><td>162</td></tr><tr><td>16.8</td><td>22</td><td>26</td><td>75</td></tr><tr><td>25.2</td><td>22</td><td>26</td><td>52</td></tr><tr><td>33.6</td><td>22</td><td>26</td><td>37</td></tr><tr><td>37.8</td><td>22</td><td>26</td><td>34</td></tr><tr><td>42.0</td><td>22</td><td>25</td><td>28</td></tr><tr><td>46.2</td><td>-</td><td>22</td><td>26</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. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.0	-	-	-	8.4	22	26	162	16.8	22	26	75	25.2	22	26	52	33.6	22	26	37	37.8	22	26	34	42.0	22	25	28	46.2	-	22	26	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
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--	-	-	-																																																					

Model		PJMA1500F-36		Temperature Testing Circuitry	25°C Figure A
Item		Overcurrent Protection			
Object		+36V42A			
1.Graph					
		—	Input Volt.	100V	
		—	Input Volt.	115V	
		—	Input Volt.	230V	
					
Note: Slanted line shows the range of the rated load current.					
Intermittent operation occurs when the output voltage is from 18V to 0V.					

2.Values					
Output Voltage [V]	Load Current [A]				
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]		
36.0	48.46	48.49	48.59		
34.2	48.68	48.66	48.78		
32.4	48.96	48.92	49.00		
28.8	49.50	49.49	49.63		
25.2	50.12	50.08	50.22		
21.6	50.83	50.84	50.88		
18.0	51.07	51.11	51.76		
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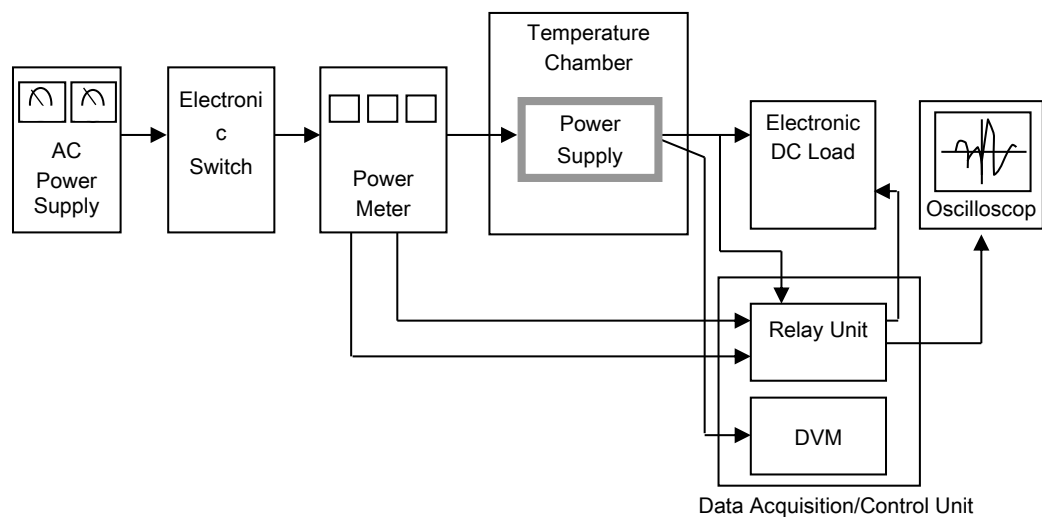


Figure A

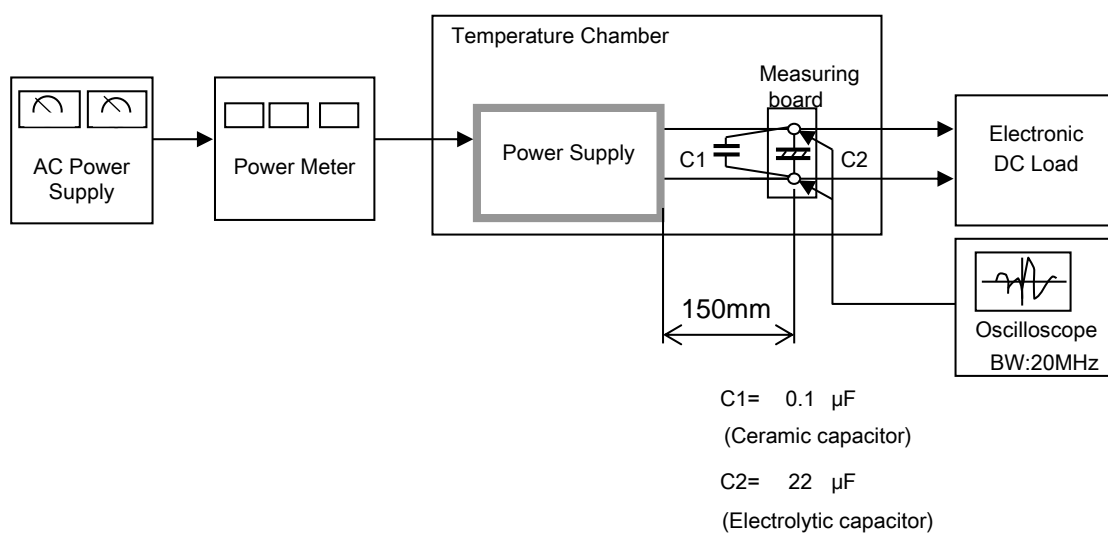


Figure B

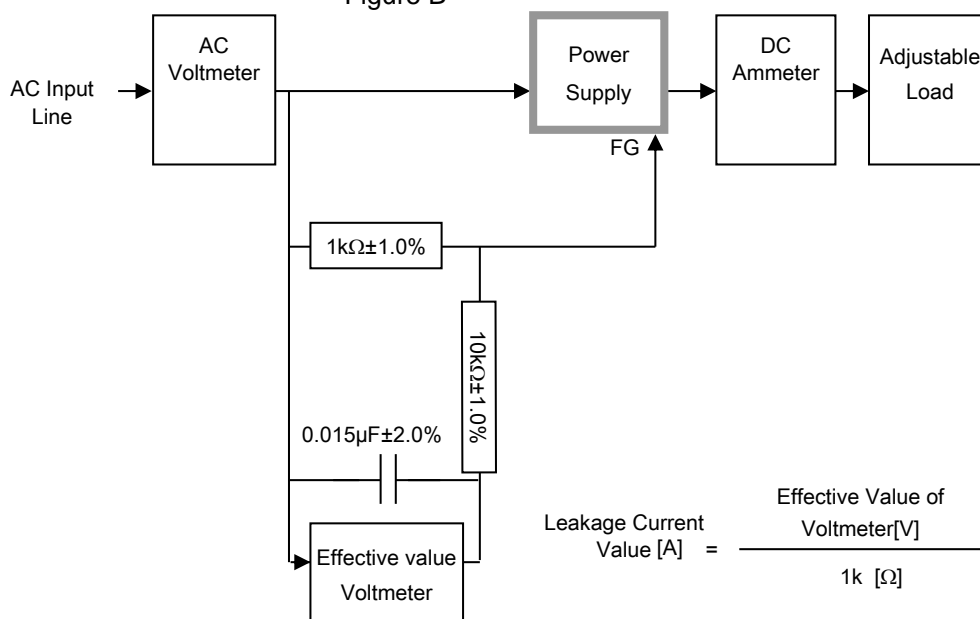


Figure C (IEC60601-1)