

TEST DATA OF PDA100F-15

Regulated DC Power Supply
December 12, 2024

Approved by : Tetsukazu Okamoto
Design Manager

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Design Engineer

COSEL CO.,LTD.

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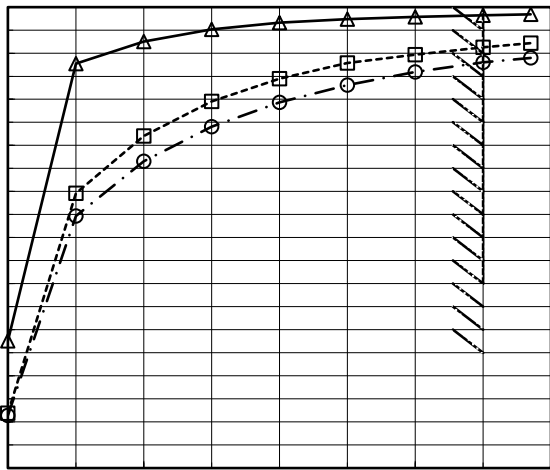
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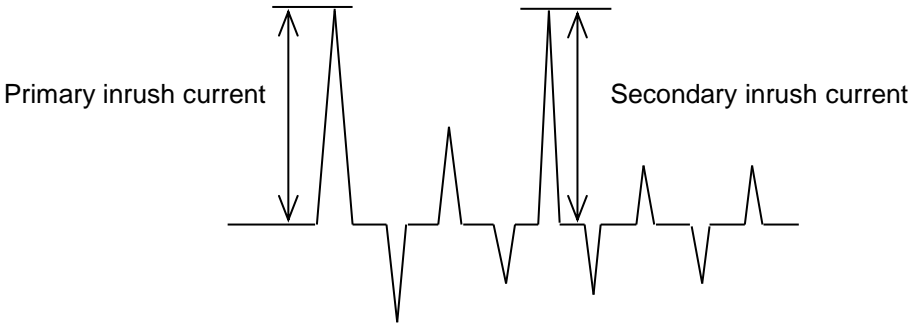
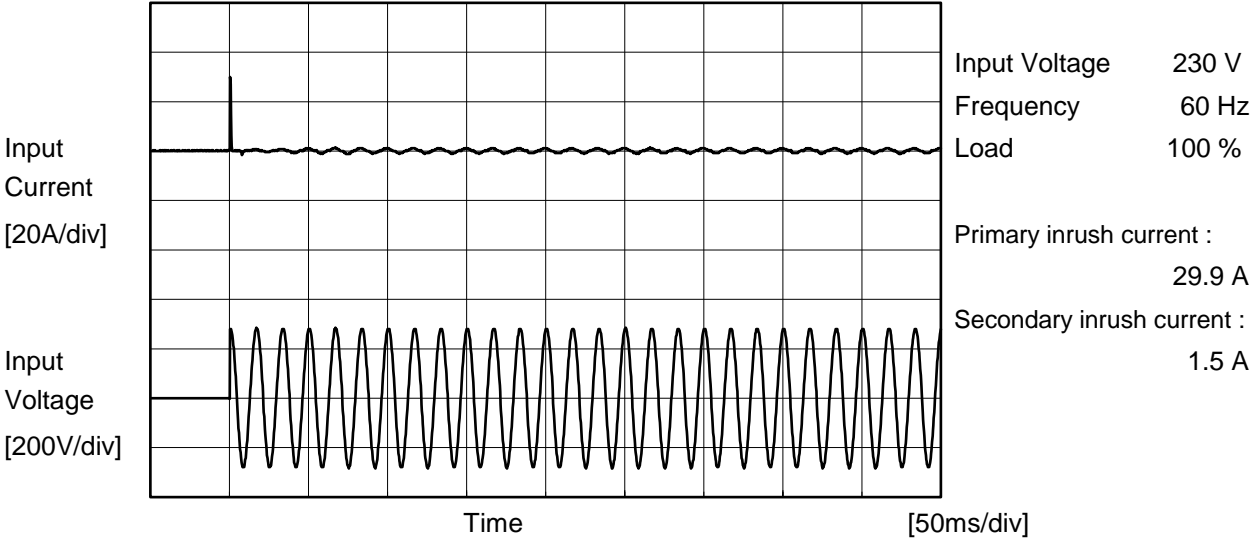
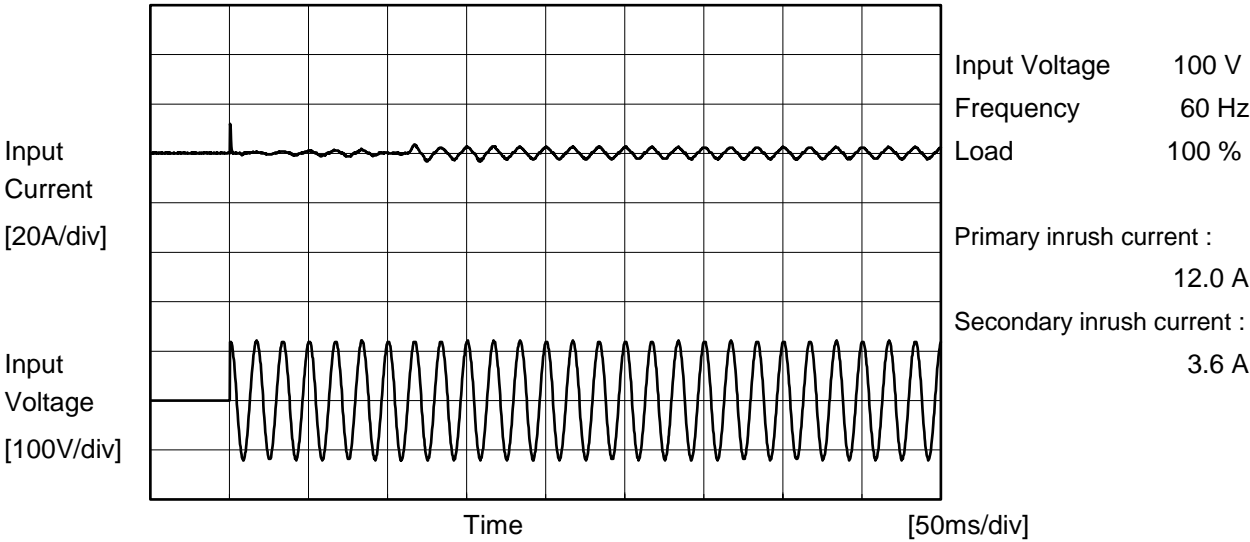
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Model		PDA100F-15	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PDA100F-15	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure C-1	Both phases	0.14	0.37	0.38	Operation
		One of phases	0.28	0.70	0.73	Stand by
IEC62368-1	Figure C-2	Both phases	0.14	0.36	0.37	Operation
		One of phases	0.27	0.69	0.72	Stand by
	Figure C-3	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.27	0.67	0.71	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.

COSEL

Model	PDA100F-15		
Item	Load Regulation	Temperature	25°C
Object	+15V7A	Testing Circuitry	Figure A
1.Graph <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><div><div>Output Voltage 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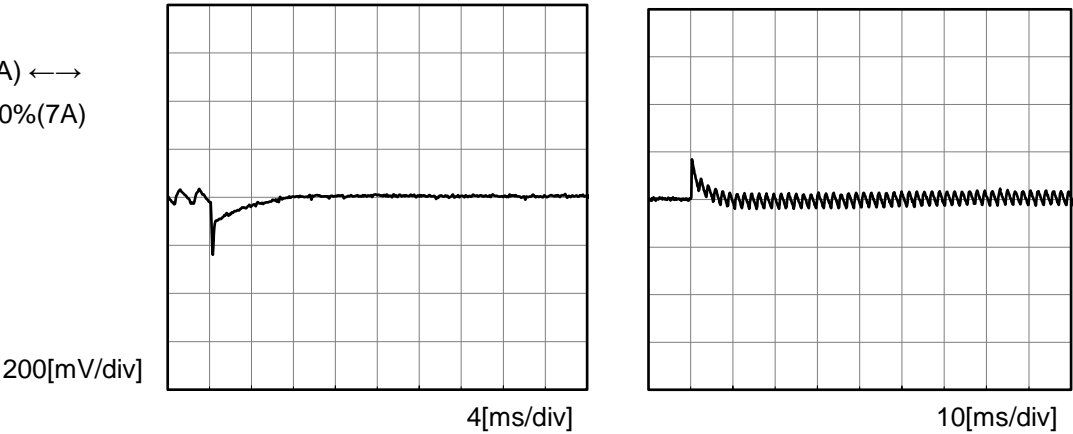


Model		PDA100F-15	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+15V7A	

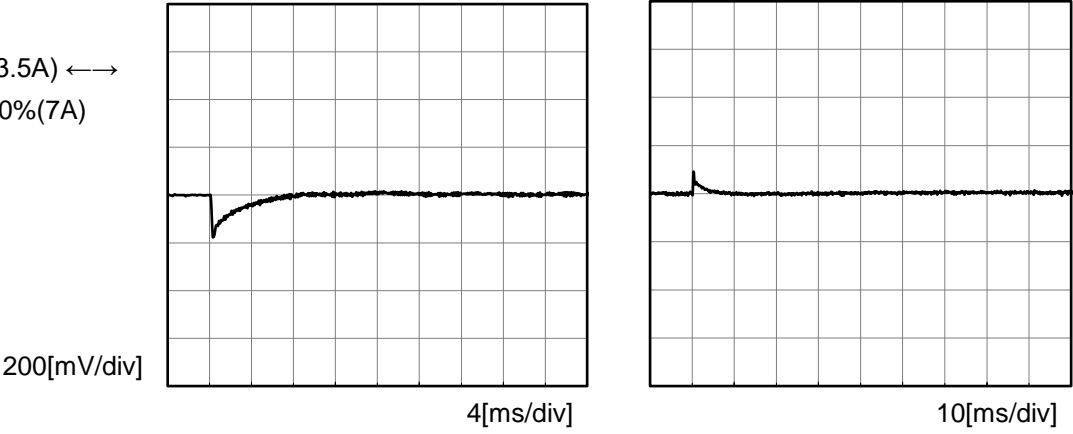
Input Volt. 230 V Response. t1=t2=50μs. Typ
Cycle 1000 ms



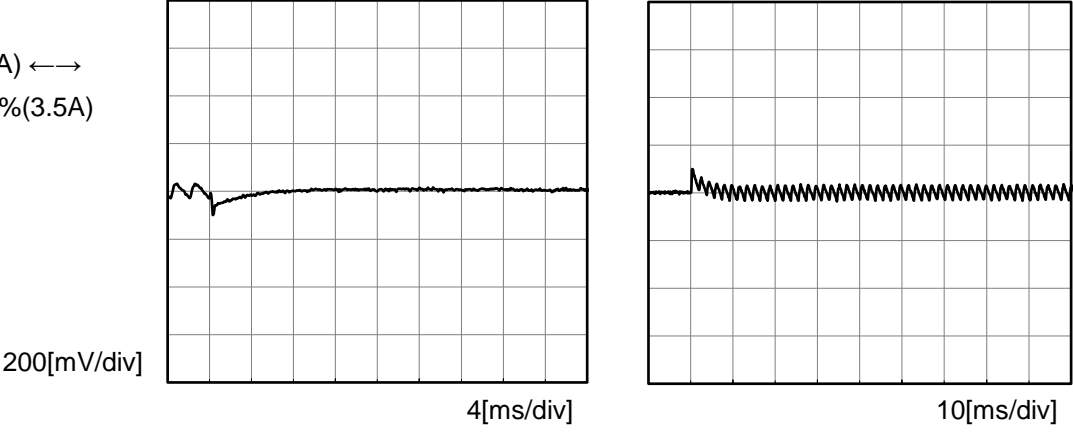
Load 0%(0A) ←→
Load 100%(7A)



Load 50%(3.5A) ←→
Load 100%(7A)



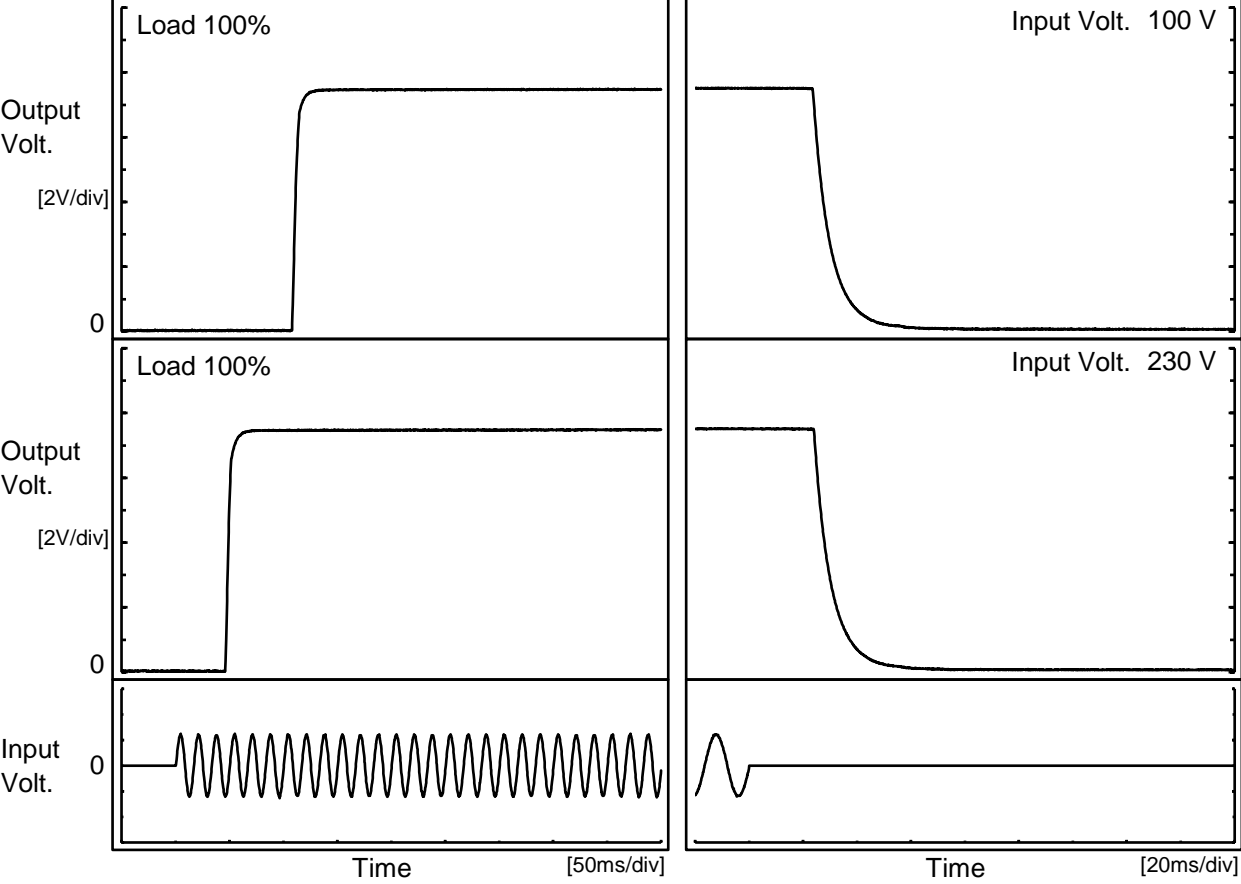
Load 0%(0A) ←→
Load 50%(3.5A)





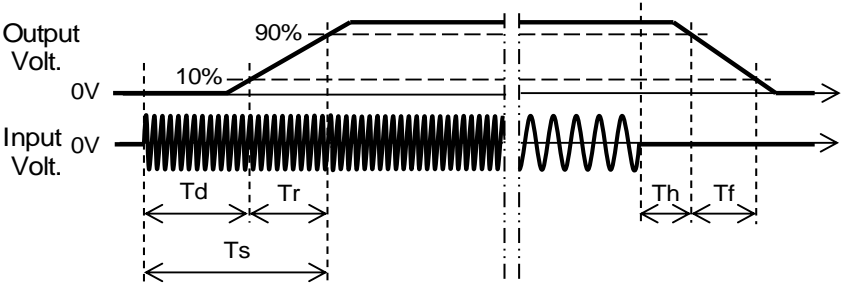
Model		PDA100F-15	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+15V7A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		108.8	6.5	115.3	24.2	14.4
230 V		47.0	6.3	53.3	24.6	14.4



Model	PDA100F-15																																	
Item	Hold-Up Time	Temperature 25°C Testing Circuitry Figure A																																
Object	+15V7A																																	
<p>1.Graph</p> <div style="text-align: right; margin-right: 10%;"> ---□--- Load 50% —△— Load 100% </div>		<p>2.Values</p> <table border="1"> <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>47</td><td>24</td></tr> <tr><td>90</td><td>47</td><td>24</td></tr> <tr><td>100</td><td>47</td><td>24</td></tr> <tr><td>120</td><td>47</td><td>24</td></tr> <tr><td>200</td><td>48</td><td>24</td></tr> <tr><td>230</td><td>48</td><td>24</td></tr> <tr><td>264</td><td>49</td><td>25</td></tr> <tr><td>280</td><td>50</td><td>25</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	47	24	90	47	24	100	47	24	120	47	24	200	48	24	230	48	24	264	49	25	280	50	25	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																	
	Load 50%	Load 100%																																
85	47	24																																
90	47	24																																
100	47	24																																
120	47	24																																
200	48	24																																
230	48	24																																
264	49	25																																
280	50	25																																
--	-	-																																
<p>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.</p>																																		



Model		PDA100F-15	Temperature 25°C Testing Circuitry Figure A																																																						
Item		Instantaneous Interruption Compensation																																																							
Object		+15V7A																																																							
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><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div></div><div><div>Load Current [A]</div></div></div> <td colspan="2">2.Values</td> <td colspan="2"><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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>52</td><td>155</td><td>156</td></tr><tr><td>2.00</td><td>19</td><td>34</td><td>43</td></tr><tr><td>3.00</td><td>18</td><td>30</td><td>31</td></tr><tr><td>4.00</td><td>18</td><td>28</td><td>29</td></tr><tr><td>5.00</td><td>17</td><td>27</td><td>27</td></tr><tr><td>6.00</td><td>16</td><td>27</td><td>26</td></tr><tr><td>7.00</td><td>16</td><td>22</td><td>23</td></tr><tr><td>7.70</td><td>16</td><td>19</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></table></td>	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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>52</td><td>155</td><td>156</td></tr><tr><td>2.00</td><td>19</td><td>34</td><td>43</td></tr><tr><td>3.00</td><td>18</td><td>30</td><td>31</td></tr><tr><td>4.00</td><td>18</td><td>28</td><td>29</td></tr><tr><td>5.00</td><td>17</td><td>27</td><td>27</td></tr><tr><td>6.00</td><td>16</td><td>27</td><td>26</td></tr><tr><td>7.00</td><td>16</td><td>22</td><td>23</td></tr><tr><td>7.70</td><td>16</td><td>19</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></table>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	1.00	52	155	156	2.00	19	34	43	3.00	18	30	31	4.00	18	28	29	5.00	17	27	27	6.00	16	27	26	7.00	16	22	23	7.70	16	19	20	--	-	-	-	--	-	-	-
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7.70	16	19	20																																																						
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Note: Slanted line shows the range of the rated load current.																																																									

Model		PDA100F-15	
Item		Overcurrent Protection	
Object		+15V7A	

1.Graph

Input Volt. 100V

Input Volt. 230V

Output Voltage [V]

20

16

12

8

4

0

0

4

8

12



Model	PDA100F-15		
Item	Ambient Temperature Drift	Testing Circuitry Figure A	
Object	+15V7A		
1.Values		Load 100%	
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-10	15.029	15.030	15.030
25	15.067	15.067	15.067
50	15.084	15.084	15.084
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+15V7A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	43	58	
25	42	56	
50	41	57	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+15V7A		
1.Values		Load 0%	
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 230V	
-20	23.31	23.31	
25	23.88	23.82	
50	24.22	24.22	

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BC-12017

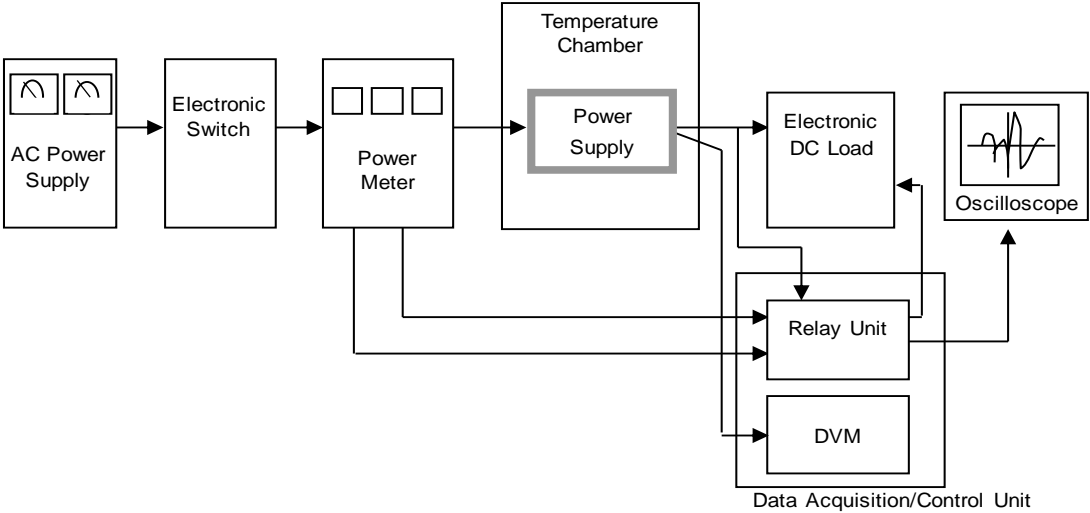


Figure A

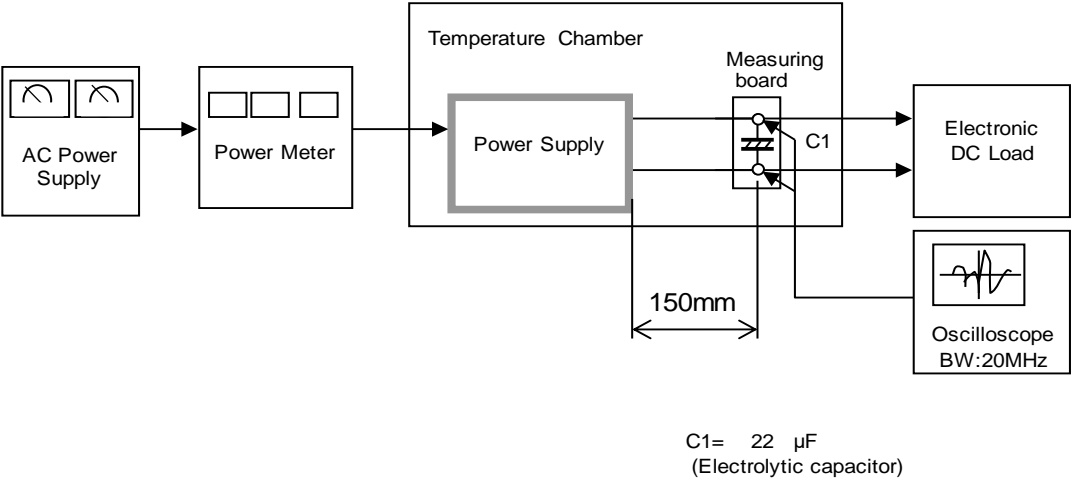


Figure B

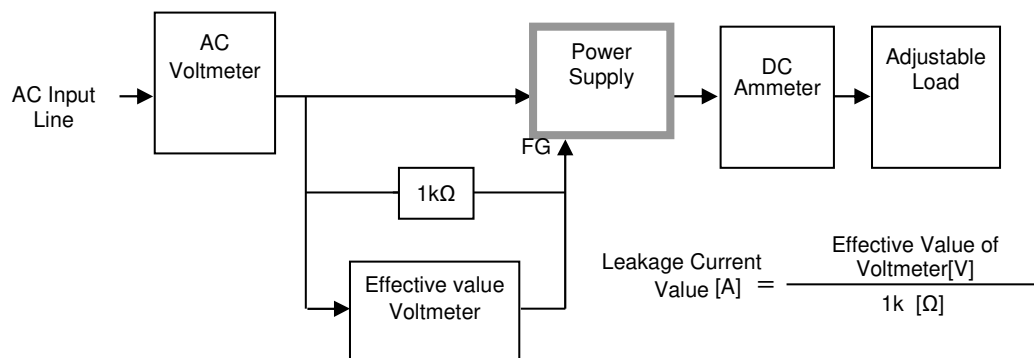


Figure C-1 (DEN-AN)

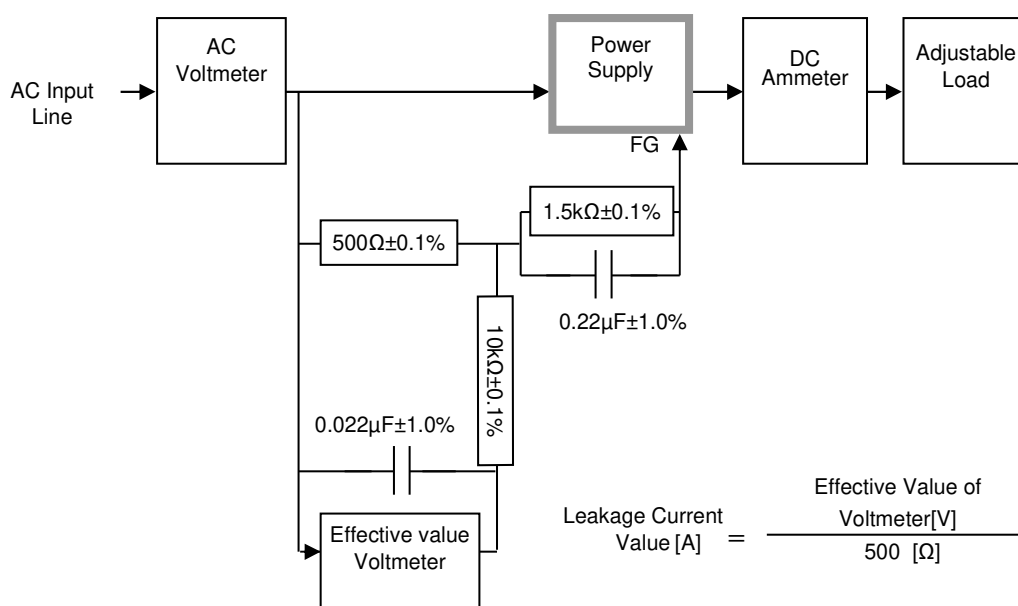


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

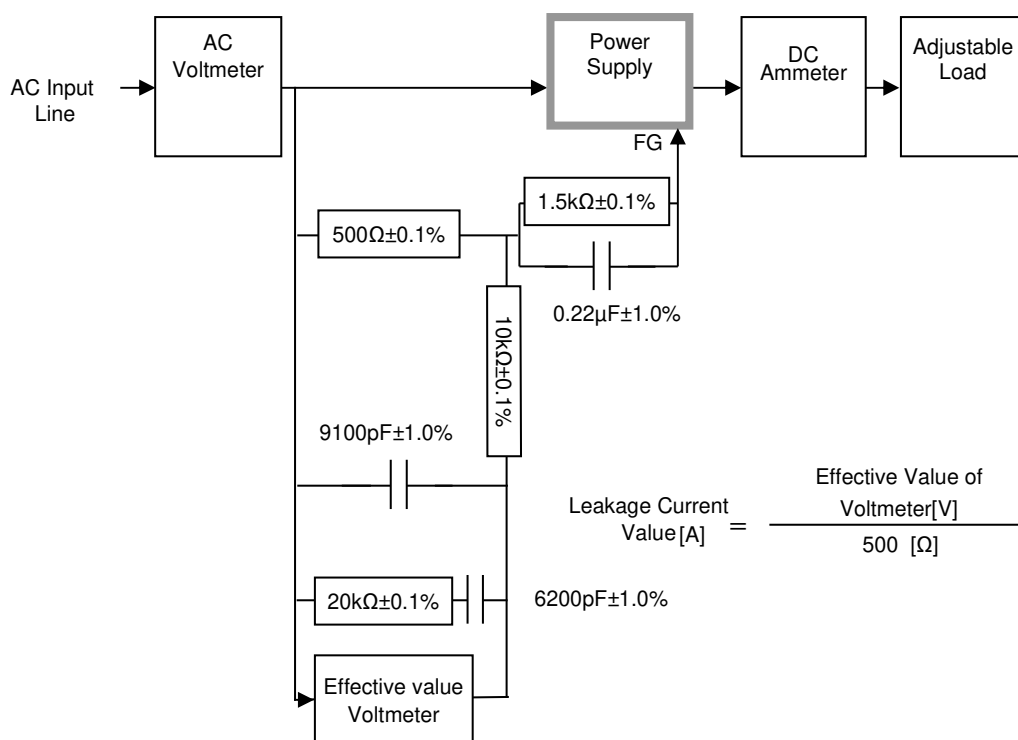


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)