

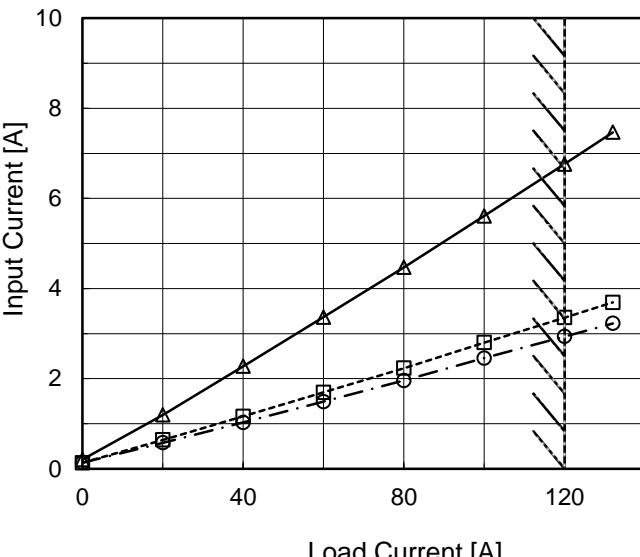
TEST DATA OF PCA600F-5-P2

Regulated DC Power Supply
March 13, 2017

Approved by : Koji Todo
Koji Todo Design Manager

Prepared by : Yutaka Tamura
Yutaka Tamura Design Engineer

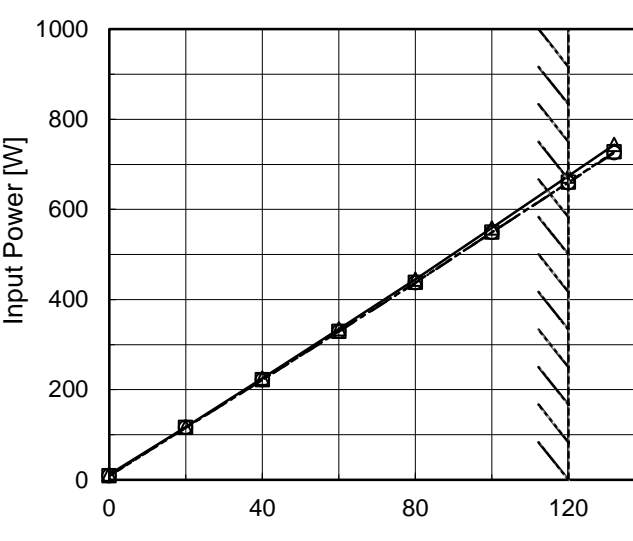
COSEL CO.,LTD.

Model		PCA600F-5-P2		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
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>  <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																				
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132	89.4	91.4	91.6																																																					
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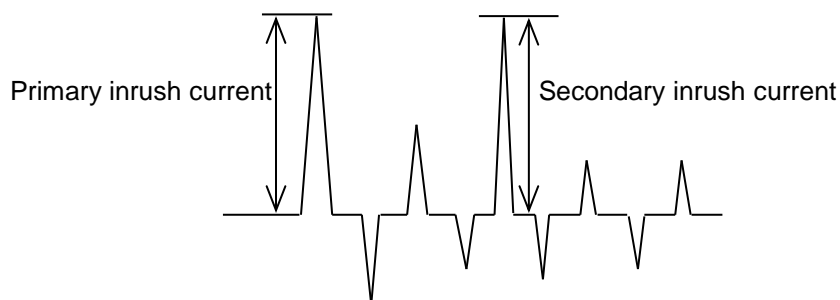
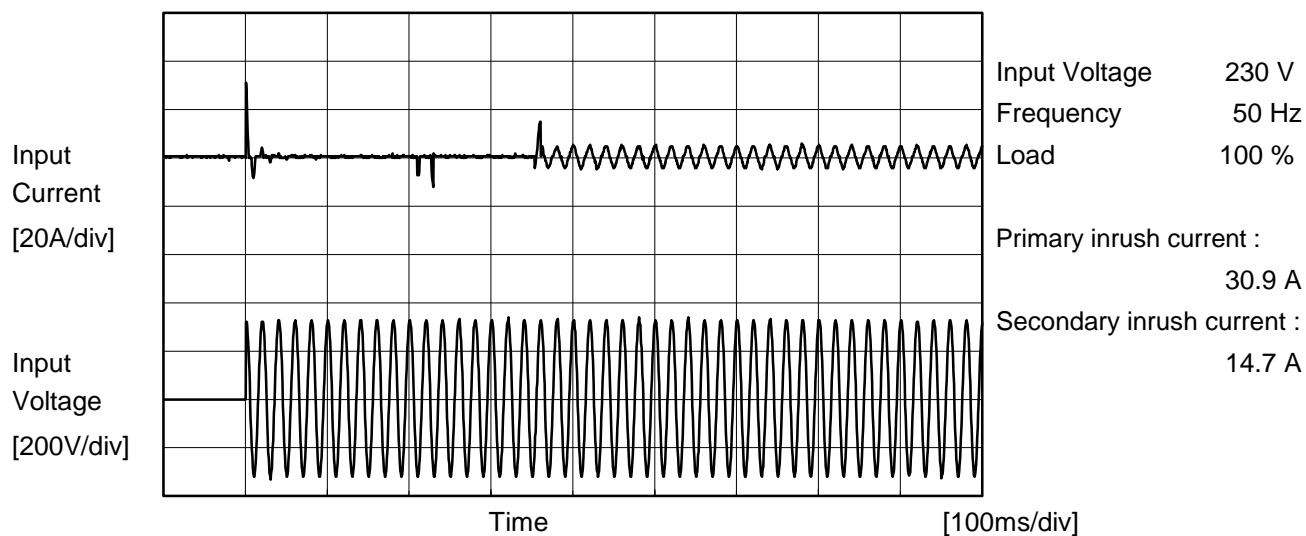
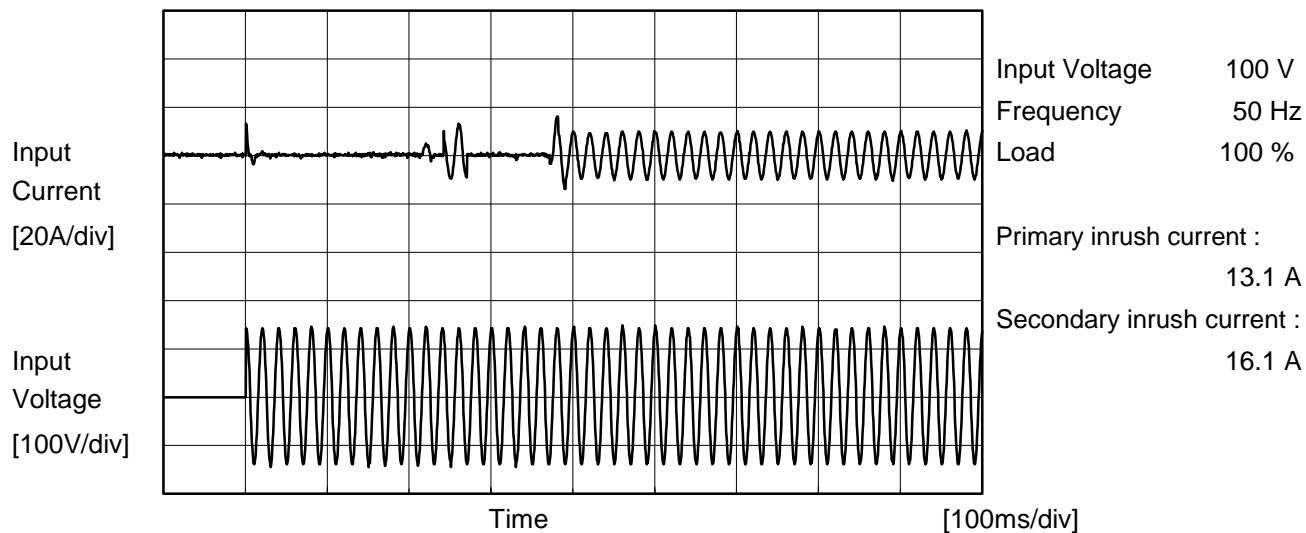


Model		PCA600F-5-P2		Temperature 25°C																															
Item		Power Factor (by Input Voltage)		Testing Circuitry Figure A																															
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<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>80</td><td>0.998</td><td>0.999</td></tr><tr><td>85</td><td>0.997</td><td>0.999</td></tr><tr><td>100</td><td>0.996</td><td>0.999</td></tr><tr><td>120</td><td>0.993</td><td>0.997</td></tr><tr><td>200</td><td>0.973</td><td>0.985</td></tr><tr><td>230</td><td>0.962</td><td>0.976</td></tr><tr><td>264</td><td>0.938</td><td>0.966</td></tr><tr><td>280</td><td>0.567</td><td>0.706</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>				Input Voltage [V]	Load 50%	Load 100%	80	0.998	0.999	85	0.997	0.999	100	0.996	0.999	120	0.993	0.997	200	0.973	0.985	230	0.962	0.976	264	0.938	0.966	280	0.567	0.706	--	-	-		
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<div><div><div>—△— Input Volt. 100V</div><div>- - □ - - Input Volt. 200V</div><div>- · - ○ - · - Input Volt. 230V</div></div><div>Power Factor</div><div>Load Current [A]</div></div> <div>Note: Slanted line shows the range of the rated load current.</div>				<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</td><td>0.588</td><td>0.329</td><td>0.281</td></tr><tr><td>20</td><td>0.980</td><td>0.904</td><td>0.874</td></tr><tr><td>40</td><td>0.993</td><td>0.956</td><td>0.939</td></tr><tr><td>60</td><td>0.996</td><td>0.973</td><td>0.962</td></tr><tr><td>80</td><td>0.996</td><td>0.981</td><td>0.971</td></tr><tr><td>100</td><td>0.998</td><td>0.981</td><td>0.972</td></tr><tr><td>120</td><td>0.999</td><td>0.985</td><td>0.976</td></tr><tr><td>132</td><td>0.999</td><td>0.986</td><td>0.980</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]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	0.588	0.329	0.281	20	0.980	0.904	0.874	40	0.993	0.956	0.939	60	0.996	0.973	0.962	80	0.996	0.981	0.971	100	0.998	0.981	0.972	120	0.999	0.985	0.976	132	0.999	0.986	0.980	--	-	-	-	--	-	-	-	--	-	-	-
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Model	PCA600F-5-P2	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		





Model		PCA600F-5-P2	Temperature 25°C Testing Circuitry Figure B
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	0.13	0.30	0.31	Operation
		One of phases	0.25	0.56	0.58	Stand by
IEC62368-1	Figure B-2	Both phases	0.12	0.29	0.30	Operation
		One of phases	0.25	0.54	0.56	Stand by
	Figure B-3	Both phases	0.12	0.29	0.30	Operation
		One of phases	0.25	0.54	0.57	Stand by
IEC60601-1	Figure B-4	Both phases	0.12	0.29	0.30	Operation
		One of phases	0.24	0.53	0.55	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.



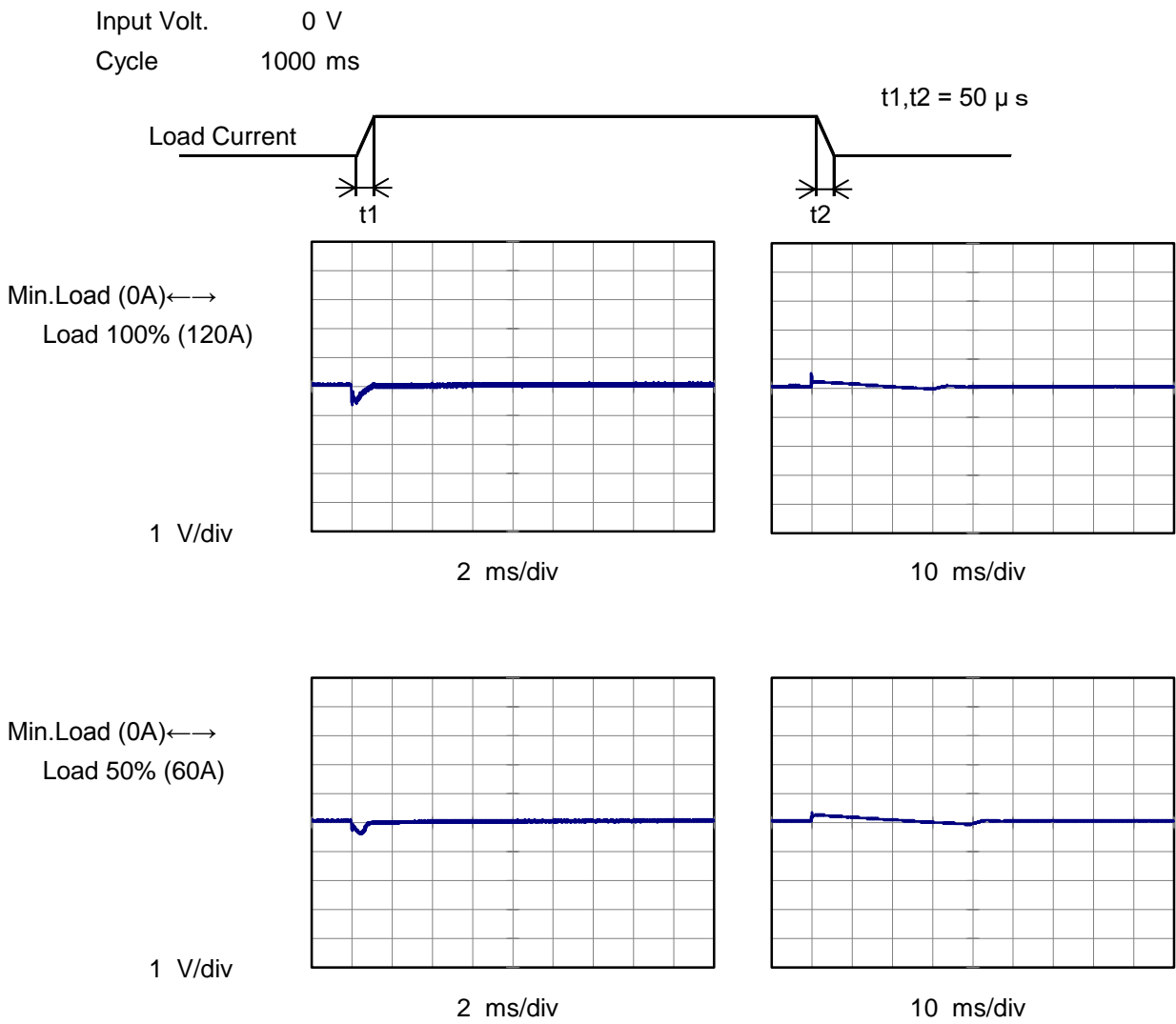
Model		PCA600F-5-P2	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+5V120A			
1.Graph			2.Values		
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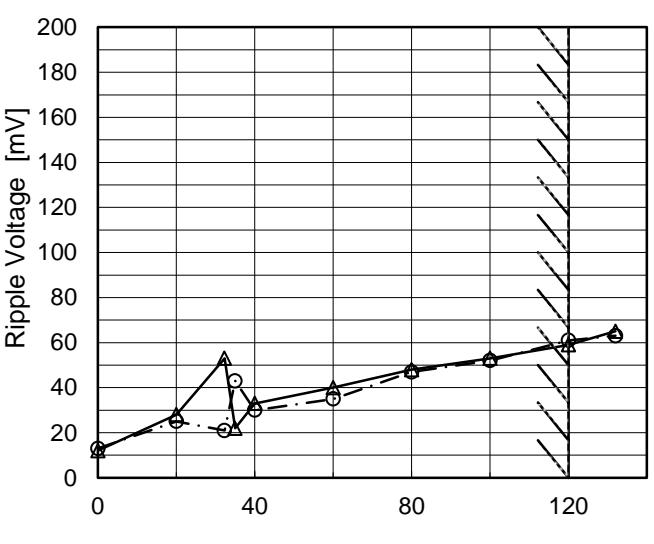
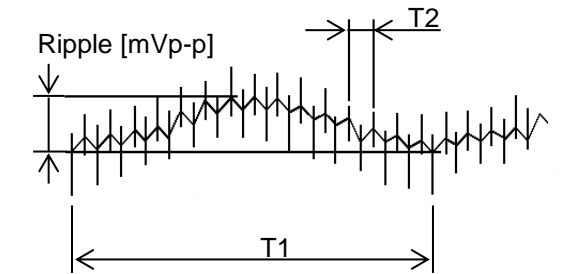


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1.Graph		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div></div></div>																																																				
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Output Voltage [V]</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div><div>4.98</div></div><div><div>0</div><div>40</div><div>80</div><div>120</div></div><div><div>Load Current [A]</div></div></div></div>		2.Values																																																				
		<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</td><td>5.062</td><td>5.062</td><td>5.062</td></tr><tr><td>20</td><td>5.061</td><td>5.061</td><td>5.061</td></tr><tr><td>40</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>60</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>80</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>100</td><td>5.056</td><td>5.056</td><td>5.056</td></tr><tr><td>120</td><td>5.055</td><td>5.055</td><td>5.055</td></tr><tr><td>132</td><td>5.054</td><td>5.054</td><td>5.054</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	5.062	5.062	5.062	20	5.061	5.061	5.061	40	5.060	5.060	5.060	60	5.059	5.059	5.059	80	5.057	5.057	5.057	100	5.056	5.056	5.056	120	5.055	5.055	5.055	132	5.054	5.054	5.054	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	5.062	5.062	5.062																																																			
20	5.061	5.061	5.061																																																			
40	5.060	5.060	5.060																																																			
60	5.059	5.059	5.059																																																			
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--	-	-	-																																																			
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--	-	-	-																																																			
Note: Slanted line shows the range of the rated load current.																																																						




Model	PCA600F-5-P2		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+5V120A		

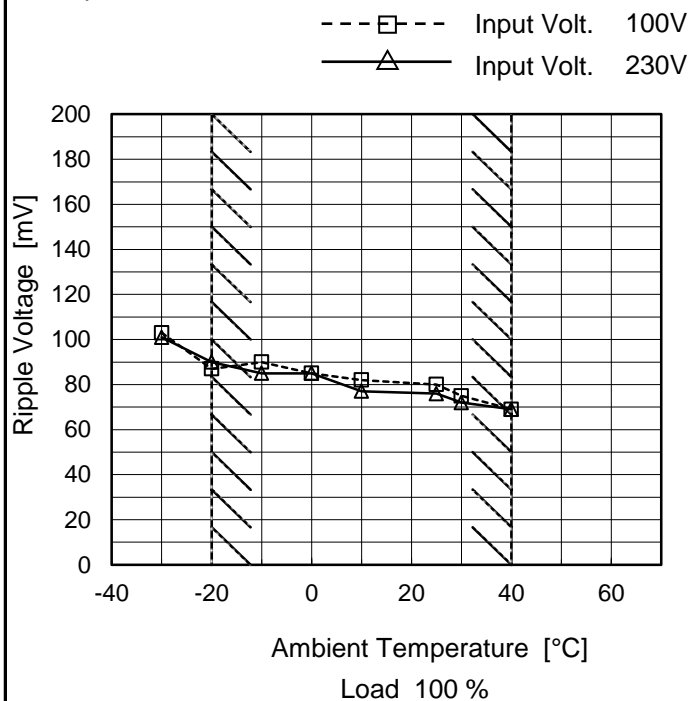


Model		PCA600F-5-P2																																							
Item		Ripple Voltage (by Load Current)																																							
Object		+5V120A																																							
1.Graph		2.Values																																							
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>-○-</div><div>Input Volt. 230V</div></div></div>  <p>Measured by 20 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>12</td><td>13</td></tr><tr><td>20.0</td><td>28</td><td>25</td></tr><tr><td>32.3</td><td>53</td><td>21</td></tr><tr><td>35.0</td><td>22</td><td>43</td></tr><tr><td>40.0</td><td>33</td><td>30</td></tr><tr><td>60.0</td><td>40</td><td>35</td></tr><tr><td>80.0</td><td>48</td><td>47</td></tr><tr><td>100.0</td><td>53</td><td>52</td></tr><tr><td>120.0</td><td>59</td><td>61</td></tr><tr><td>132.0</td><td>65</td><td>63</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	0.0	12	13	20.0	28	25	32.3	53	21	35.0	22	43	40.0	33	30	60.0	40	35	80.0	48	47	100.0	53	52	120.0	59	61	132.0	65	63	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
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20.0	28	25																																							
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60.0	40	35																																							
80.0	48	47																																							
100.0	53	52																																							
120.0	59	61																																							
132.0	65	63																																							
--	-	-																																							
<div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div>  <p>Fig. Complex Ripple Wave Form</p>																																									

Model		PCA600F-5-P2	
Item		Ripple-Noise	
Object		+5V120A	
1.Graph		2.Values	

	
Model	PCA600F-5-P2
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V120A

1.Graph



Measured by 20 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 230 [V]
-30	103	101
-20	87	90
-10	90	85
0	85	85
10	82	77
25	80	76
30	75	72
40	69	69
--	-	-
--	-	-
--	-	-



Model		PCA600F-5-P2																																																				
Item		Ambient Temperature Drift																																																				
Object		+5V120A																																																				
1.Graph		<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>Output Voltage [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p><p>Note: Slanted line shows the range of the rated ambient temperature.</p></div>																																																				
2.Values		<table><tr><th rowspan="2">Ambient Temperature [°C]</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>-30</td><td>5.052</td><td>5.052</td><td>5.052</td></tr><tr><td>-20</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>-10</td><td>5.055</td><td>5.055</td><td>5.055</td></tr><tr><td>0</td><td>5.055</td><td>5.055</td><td>5.055</td></tr><tr><td>10</td><td>5.056</td><td>5.056</td><td>5.056</td></tr><tr><td>25</td><td>5.056</td><td>5.056</td><td>5.056</td></tr><tr><td>30</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>40</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>50</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	-30	5.052	5.052	5.052	-20	5.054	5.054	5.054	-10	5.055	5.055	5.055	0	5.055	5.055	5.055	10	5.056	5.056	5.056	25	5.056	5.056	5.056	30	5.057	5.057	5.057	40	5.057	5.057	5.057	50	5.057	5.057	5.057	--	-	-	-	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
-30	5.052	5.052	5.052																																																			
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40	5.057	5.057	5.057																																																			
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--	-	-	-																																																			
--	-	-	-																																																			



Model		PCA600F-5-P2	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+5V120A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -20 - 40°C

Input Voltage : 85 - 264V

Load Current : 0 - 120A

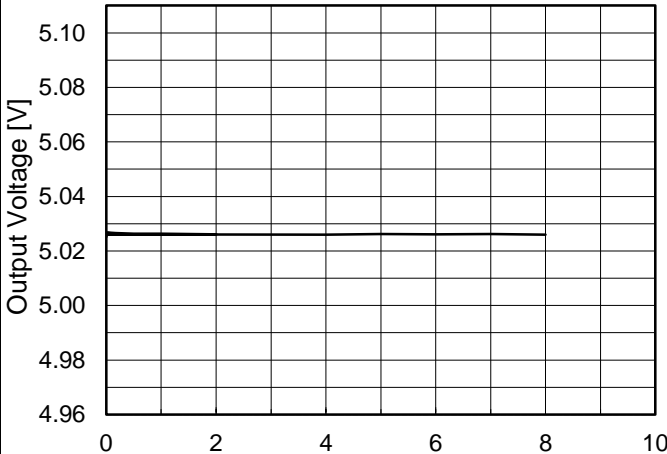
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

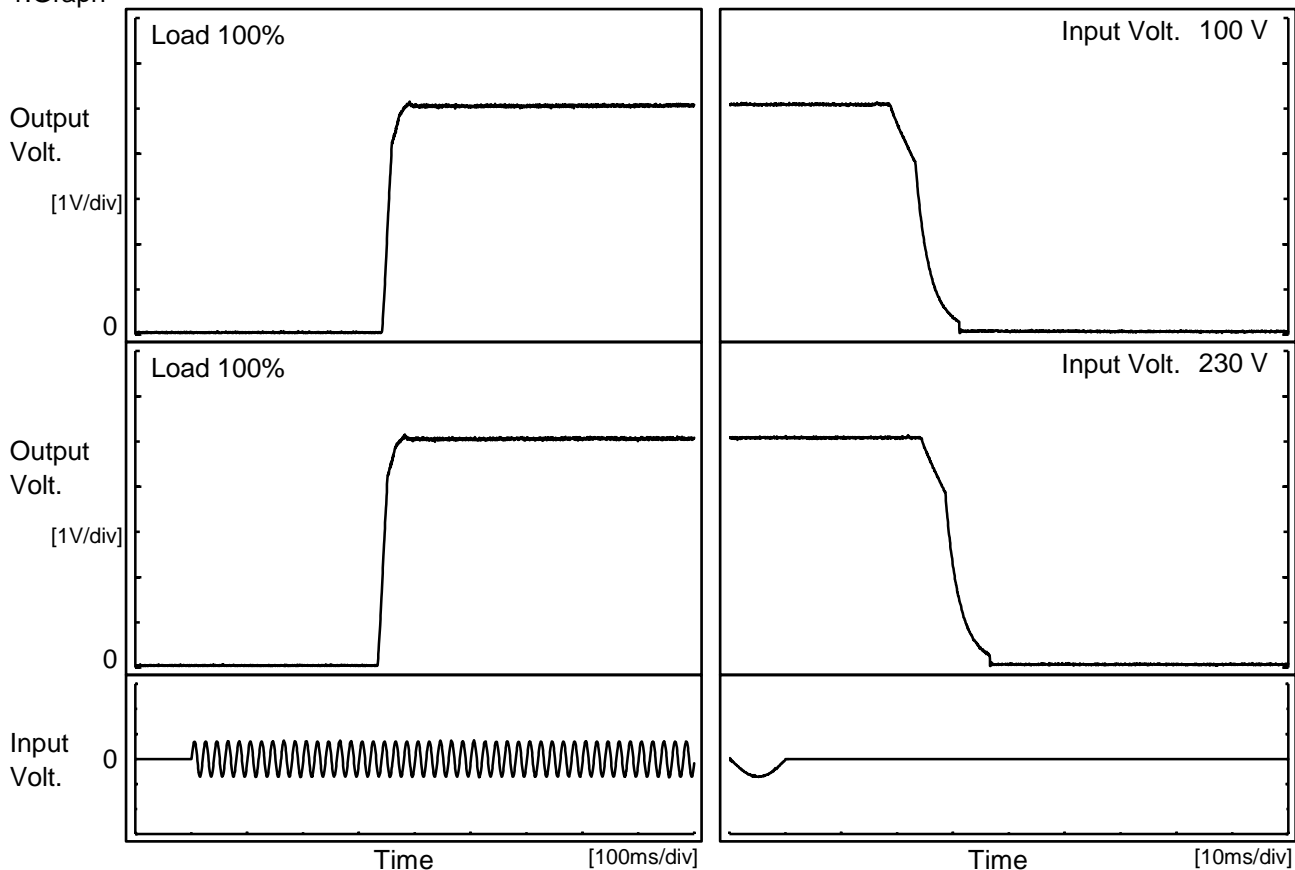
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	40	200	0	5.068	±6	±0.1
Minimum Voltage	-20	200	120	5.057		



COSEL																									
Model	PCA600F-5-P2	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+5V120A																								
1.Graph		2.Values																							
<div></div> <div>Output Voltage [V]</div> <div>Time [H]</div> <div>Input Volt. 230V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.025</td></tr><tr><td>0.5</td><td>5.026</td></tr><tr><td>1.0</td><td>5.026</td></tr><tr><td>2.0</td><td>5.026</td></tr><tr><td>3.0</td><td>5.026</td></tr><tr><td>4.0</td><td>5.026</td></tr><tr><td>5.0</td><td>5.026</td></tr><tr><td>6.0</td><td>5.026</td></tr><tr><td>7.0</td><td>5.026</td></tr><tr><td>8.0</td><td>5.026</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.025	0.5	5.026	1.0	5.026	2.0	5.026	3.0	5.026	4.0	5.026	5.0	5.026	6.0	5.026	7.0	5.026	8.0	5.026
Time since start [H]	Output Voltage [V]																								
0.0	5.025																								
0.5	5.026																								
1.0	5.026																								
2.0	5.026																								
3.0	5.026																								
4.0	5.026																								
5.0	5.026																								
6.0	5.026																								
7.0	5.026																								
8.0	5.026																								
* The characteristic of AC100V is equal.																									

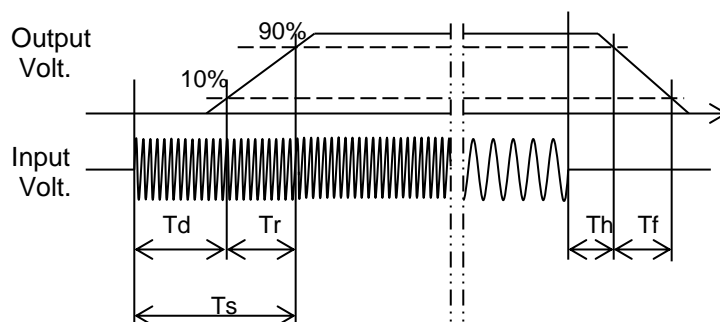
Model	PCA600F-5-P2	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V120A		

1.Graph



2.Values

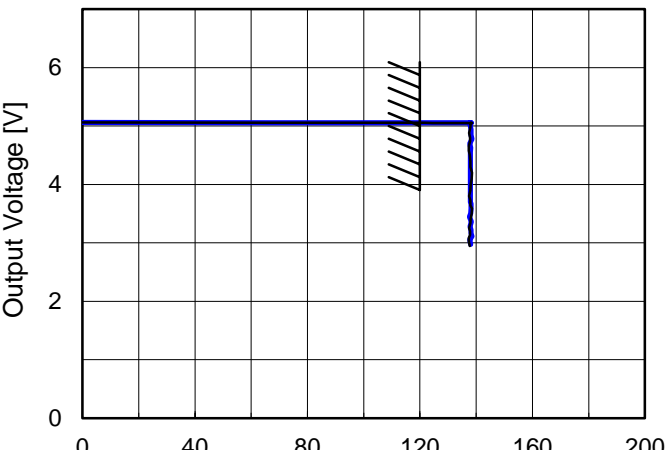
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		344.0	22.5	366.5	20.4	8.5
230 V		336.5	22.5	359.0	26.1	8.2



Model		PCA600F-5-P2	
Item		Hold-Up Time	
Object		+5V120A	
1.Graph		2.Values	

Model		PCA600F-5-P2		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+5V120A																																																						
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>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. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20</td><td>111</td><td>144</td><td>143</td></tr><tr><td>40</td><td>59</td><td>76</td><td>76</td></tr><tr><td>60</td><td>41</td><td>52</td><td>52</td></tr><tr><td>80</td><td>30</td><td>39</td><td>39</td></tr><tr><td>100</td><td>24</td><td>31</td><td>31</td></tr><tr><td>120</td><td>17</td><td>26</td><td>26</td></tr><tr><td>132</td><td>15</td><td>20</td><td>21</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. 200[V]	Input Volt. 230[V]	0	-	-	-	20	111	144	143	40	59	76	76	60	41	52	52	80	30	39	39	100	24	31	31	120	17	26	26	132	15	20	21	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
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132	15	20	21																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					

Model	PCA600F-5-P2																																								
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																																							
Object	+5V120A																																								
1.Graph		2.Values																																							
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-30</td><td>74</td><td>81</td></tr><tr><td>-20</td><td>74</td><td>81</td></tr><tr><td>-10</td><td>74</td><td>81</td></tr><tr><td>0</td><td>74</td><td>81</td></tr><tr><td>10</td><td>74</td><td>81</td></tr><tr><td>25</td><td>74</td><td>81</td></tr><tr><td>30</td><td>74</td><td>81</td></tr><tr><td>40</td><td>74</td><td>81</td></tr><tr><td>50</td><td>74</td><td>81</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-30	74	81	-20	74	81	-10	74	81	0	74	81	10	74	81	25	74	81	30	74	81	40	74	81	50	74	81	--	-	-	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
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10	74	81																																							
25	74	81																																							
30	74	81																																							
40	74	81																																							
50	74	81																																							
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--	-	-																																							

Model		PCA600F-5-P2		Temperature		25°C																																													
Item		Overcurrent Protection		Testing Circuitry		Figure A																																													
Object		+5V120A																																																	
1.Graph				2.Values																																															
<div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 230V</div></div></div>  <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 2.5V to 0V.</p>				<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>4.75</td><td>137.82</td><td>138.44</td></tr><tr><td>4.50</td><td>137.68</td><td>137.97</td></tr><tr><td>4.00</td><td>138.02</td><td>137.89</td></tr><tr><td>3.50</td><td>138.41</td><td>138.01</td></tr><tr><td>3.00</td><td>137.35</td><td>137.70</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>				Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 230[V]	4.75	137.82	138.44	4.50	137.68	137.97	4.00	138.02	137.89	3.50	138.41	138.01	3.00	137.35	137.70	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																																		
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--	-	-																																																	

Model		PCA600F-5-P2
Item		Overvoltage Protection
Object		+5V120A

1.Graph

—△—

Input Volt. 100V

---□---

Input Volt. 230V

Operating Point [V]

6.8

6.6

6.4

6.2

6.0

-50

-10

30

70

Ambient Temperature [°C]

Load 0%

Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 230[V]
-30	6.55	6.55
-20	6.55	6.55
-10	6.55	6.55
0	6.55	6.55
10	6.55	6.55
25	6.55	6.55
30	6.55	6.55
40	6.55	6.55
50	6.55	6.55
--	-	-
--	-	-

Testing Circuitry Figure A

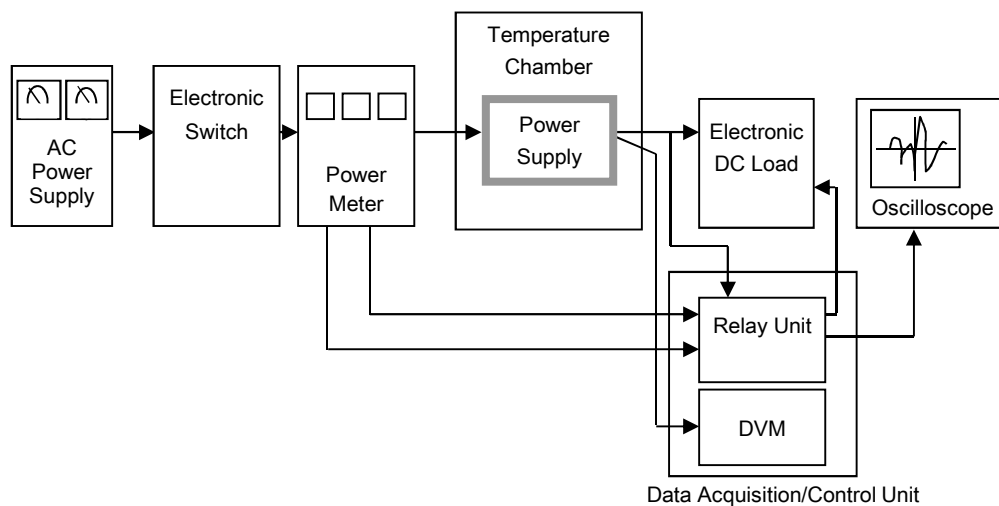


Figure A

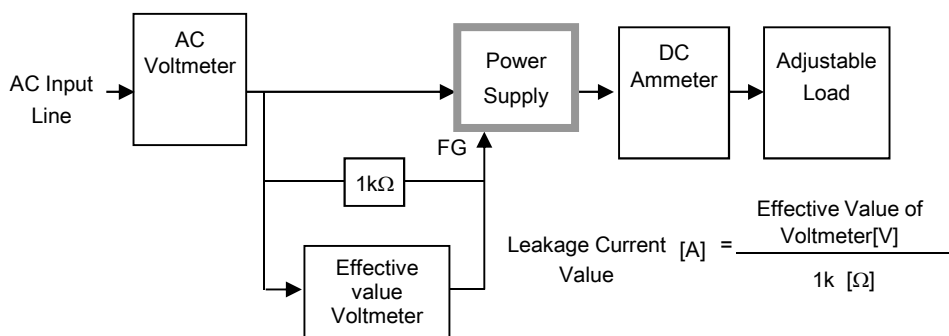


Figure B-1 (DEN-AN)

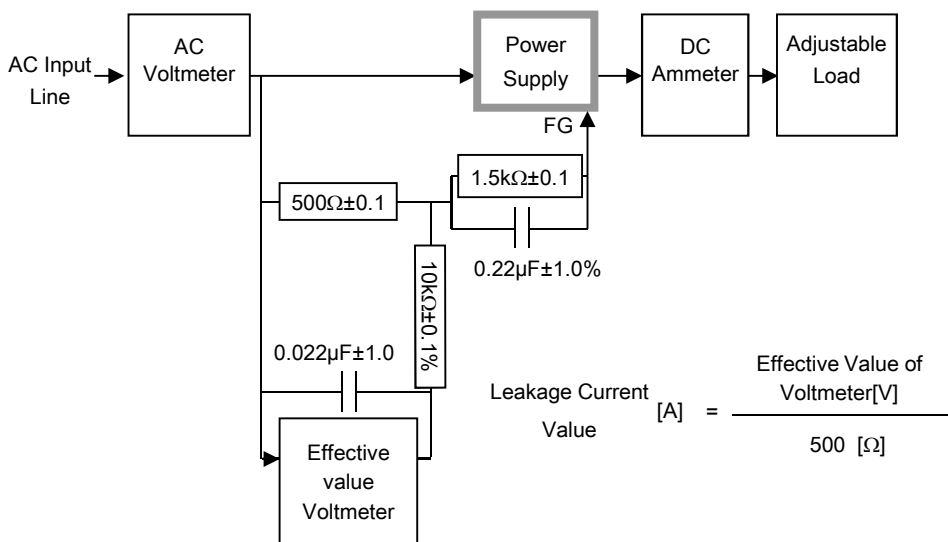


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

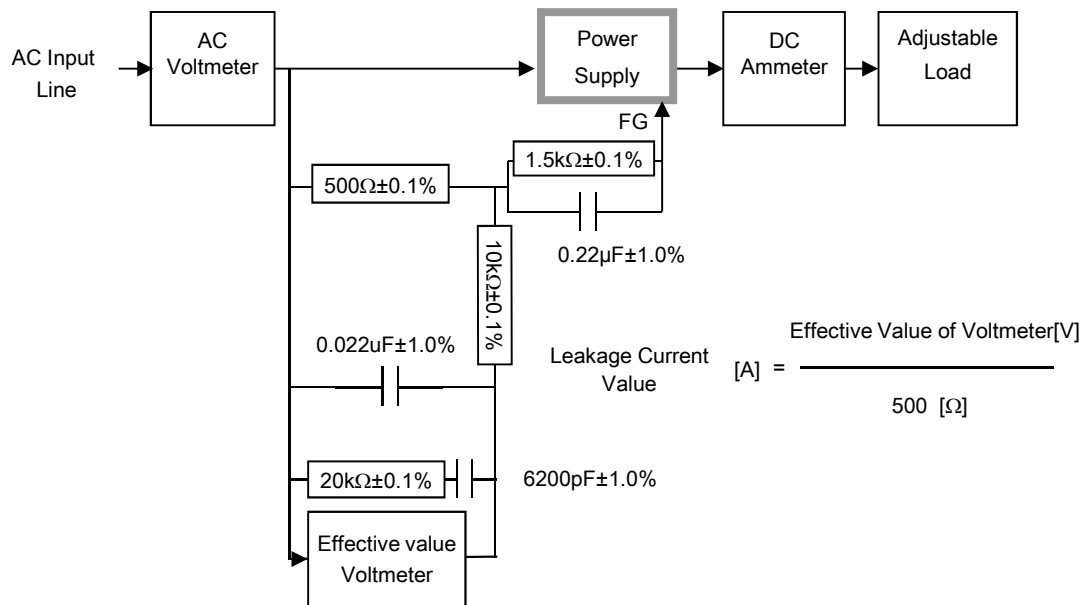


Figure B-3 (IEC62368-1 refer to IEC60990 Fig.5)

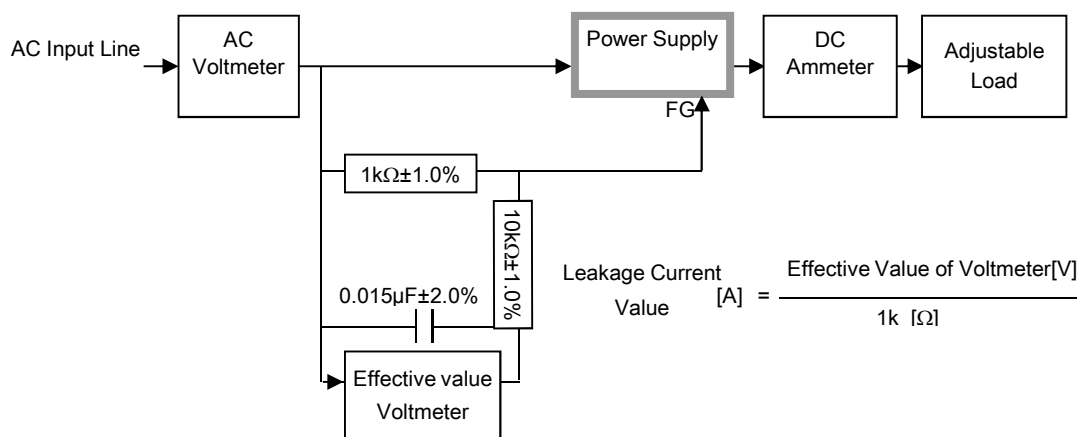


Figure B-4 (IEC60601-1)

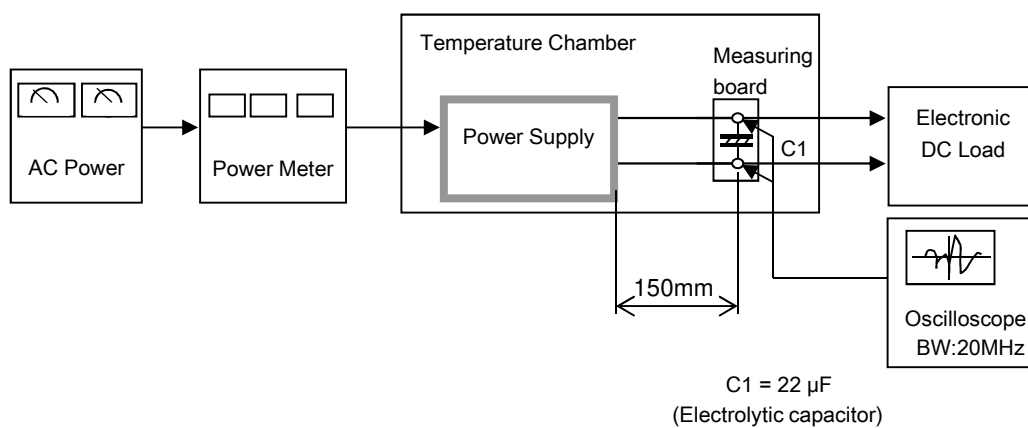


Figure C