

# TEST DATA OF PCA300F-15

Regulated DC Power Supply  
March 11, 2019

Approved by : Koji Todo  
Koji Todo Design Manager

Prepared by : Yuya Takeda  
Yuya Takeda Design Engineer

**COSEL CO.,LTD.**



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Model	PCA300F-15																																																					
Item	Input Current (by Load Current)																																																					
Object	<u> </u>																																																					
1.Graph	—△— Input Volt. 100V - -□--- Input Volt. 200V - ·○--- Input Volt. 230V																																																					
<p>The graph shows the relationship between Input Current [A] on the Y-axis (0.0 to 5.0) and Load Current [A] on the X-axis (0 to 25). Three curves are plotted for different input voltages: 100V (solid triangles), 200V (dashed squares), and 230V (dash-dot circles). All curves show a positive linear relationship. A slanted line is drawn across the graph, starting from approximately (0, 0.2) and ending at (25, 4.5), representing the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.204</td><td>0.139</td><td>0.158</td></tr> <tr><td>4.0</td><td>0.800</td><td>0.449</td><td>0.416</td></tr> <tr><td>8.0</td><td>1.419</td><td>0.756</td><td>0.682</td></tr> <tr><td>12.0</td><td>2.066</td><td>1.072</td><td>0.956</td></tr> <tr><td>16.0</td><td>2.724</td><td>1.391</td><td>1.235</td></tr> <tr><td>20.0</td><td>3.399</td><td>1.716</td><td>1.515</td></tr> <tr><td>22.0</td><td>3.740</td><td>1.883</td><td>1.663</td></tr> <tr><td>24.2</td><td>4.110</td><td>2.068</td><td>1.820</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> </tbody> </table>	Load Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.204	0.139	0.158	4.0	0.800	0.449	0.416	8.0	1.419	0.756	0.682	12.0	2.066	1.072	0.956	16.0	2.724	1.391	1.235	20.0	3.399	1.716	1.515	22.0	3.740	1.883	1.663	24.2	4.110	2.068	1.820	--	-	-	-	--	-	-	-	--	-	-	-	Temperature 25°C Testing Circuitry Figure A					
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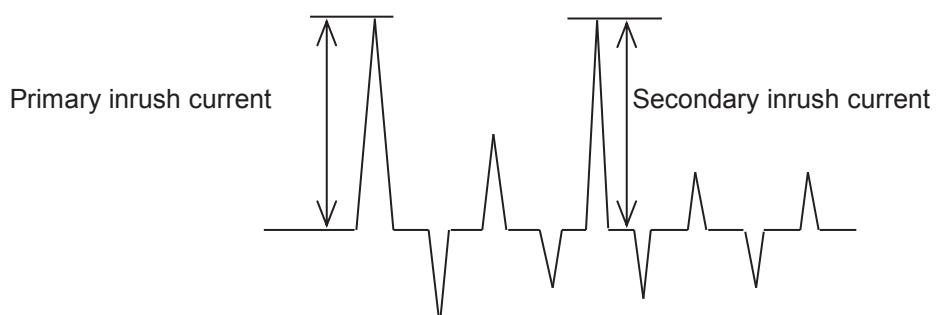
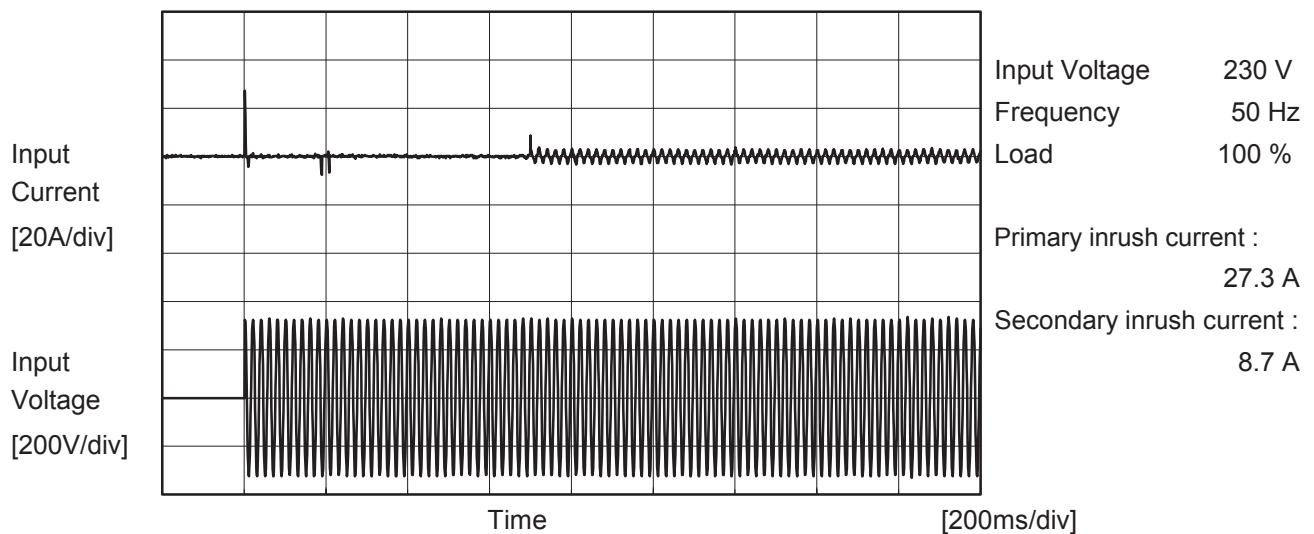
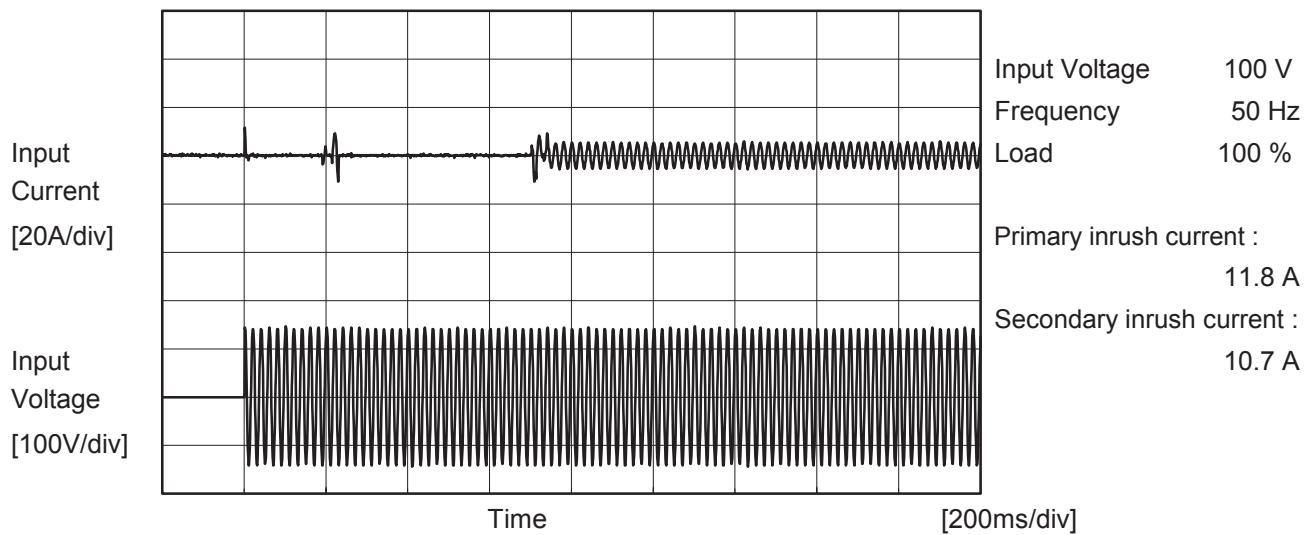
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Model	PCA300F-15	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model	PCA300F-15	Temperature Testing Circuitry	25°C Figure B
Item	Leakage Current		
Object	_____		

### 1. Results

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	0.24	0.55	0.58	Stand by
IEC62368-1	Figure B-2	Both phases	0.13	0.29	0.31	Operation
		One of phases	0.22	0.54	0.57	Stand by
IEC60601-1	Figure B-3	Both phases	0.13	0.29	0.30	Operation
		One of phases	0.24	0.54	0.56	Stand by
	Figure B-4	Both phases	0.12	0.30	0.31	Operation
		One of phases	0.24	0.55	0.58	Stand by

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

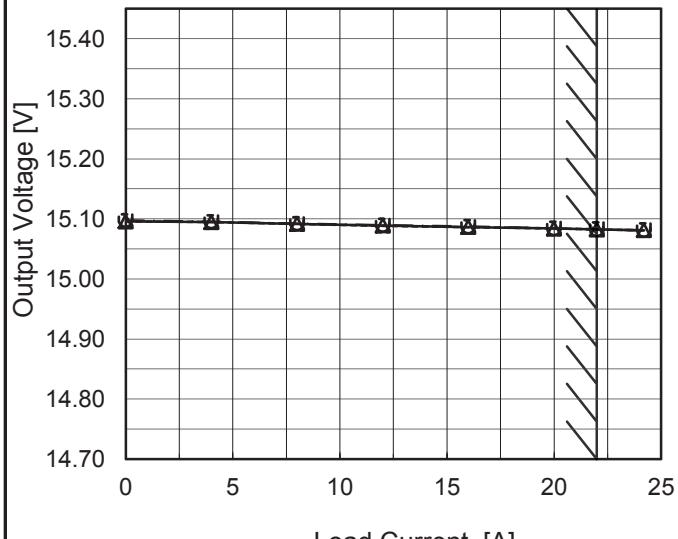
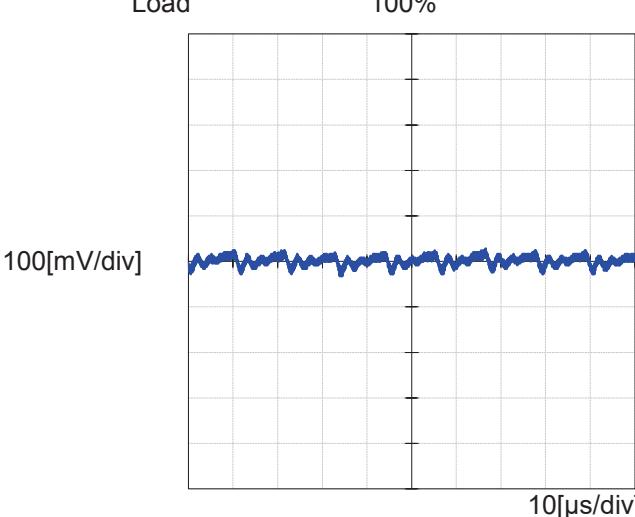
### 2. Condition

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

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Model	PCA300F-15																																	
Item	Line Regulation	Temperature 25°C Testing Circuitry Figure A																																
Object	+15V22A																																	
1.Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend: ---□--- Load 50% —△— Load 100%</p>																																		
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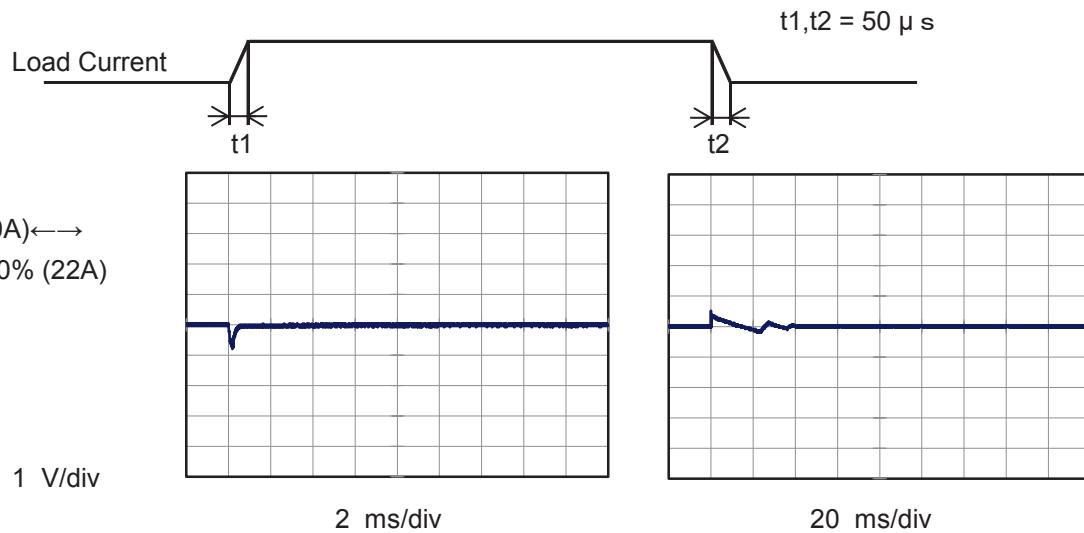
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Object	+15V22A	Testing Circuitry	Figure C																																																			
1.Graph	<p>Input Voltage 200V        Load 100%</p> 																																																					

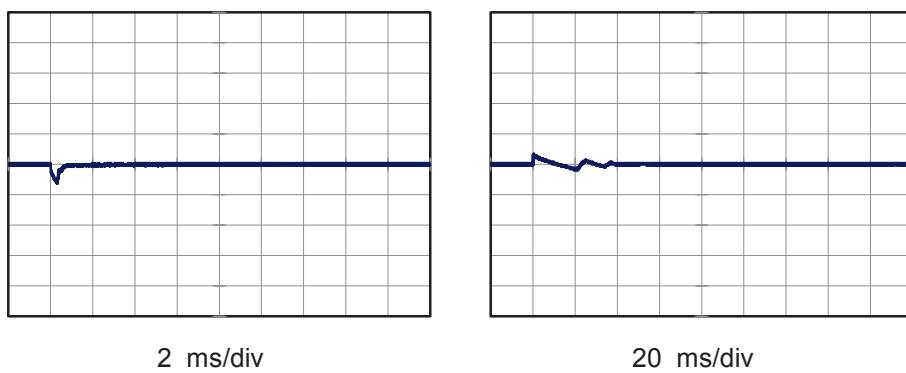
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Model	PCA300F-15	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+15V22A		

Input Volt. 200 V  
 Cycle 1000 ms



Min.Load (0A)  $\longleftrightarrow$   
 Load 50% (11A)

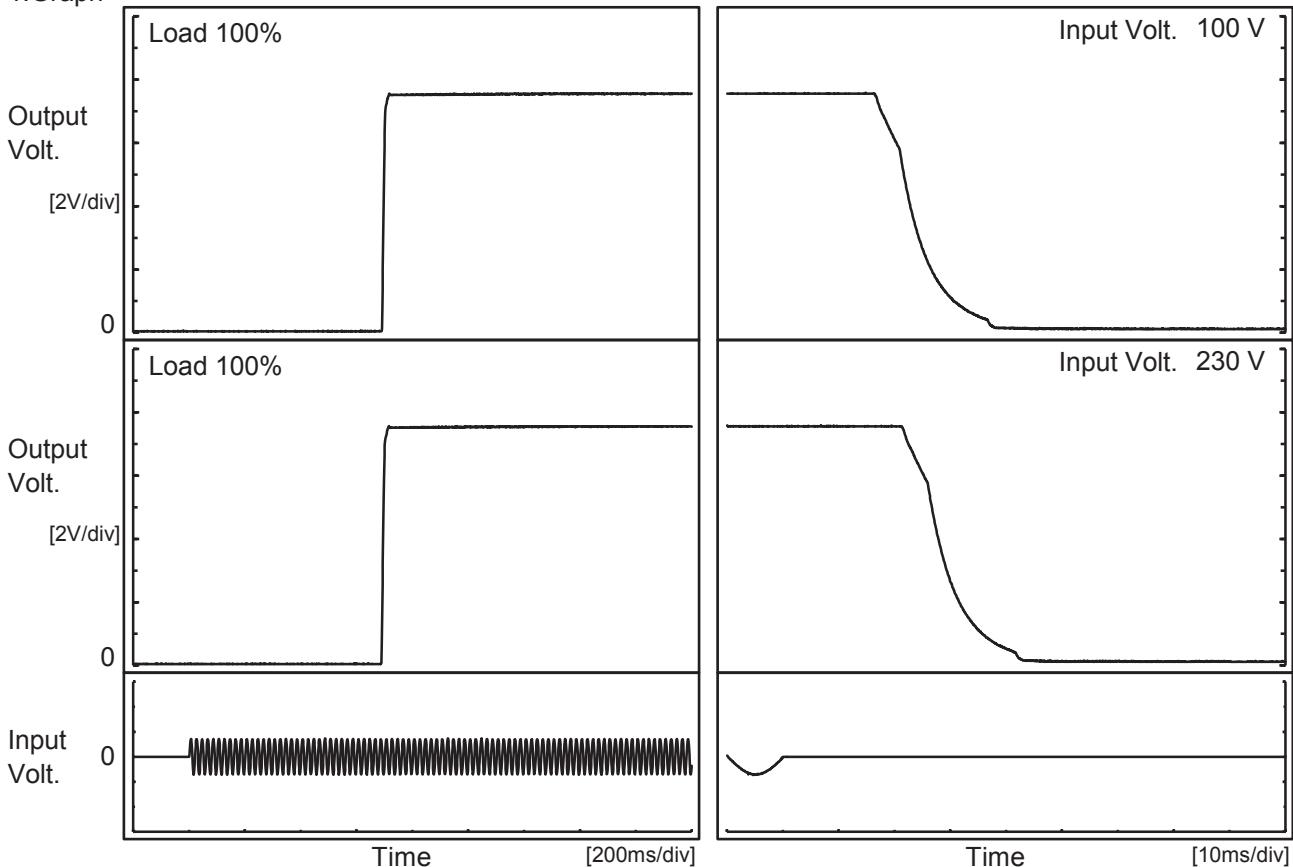


**COSEL**

Model	PCA300F-15
Item	Rise and Fall Time
Object	+15V22A

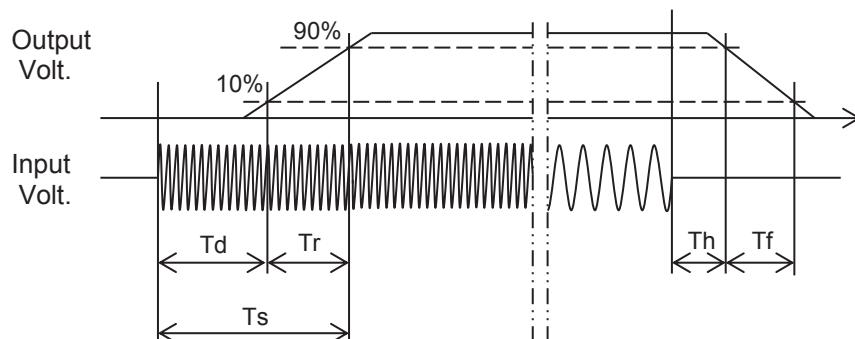
Temperature 25°C  
Testing Circuitry Figure A

## 1.Graph



## 2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf	[ms]
100 V		693.0	10.0	703.0	18.2	14.1	
230 V		691.0	10.0	701.0	23.1	14.2	

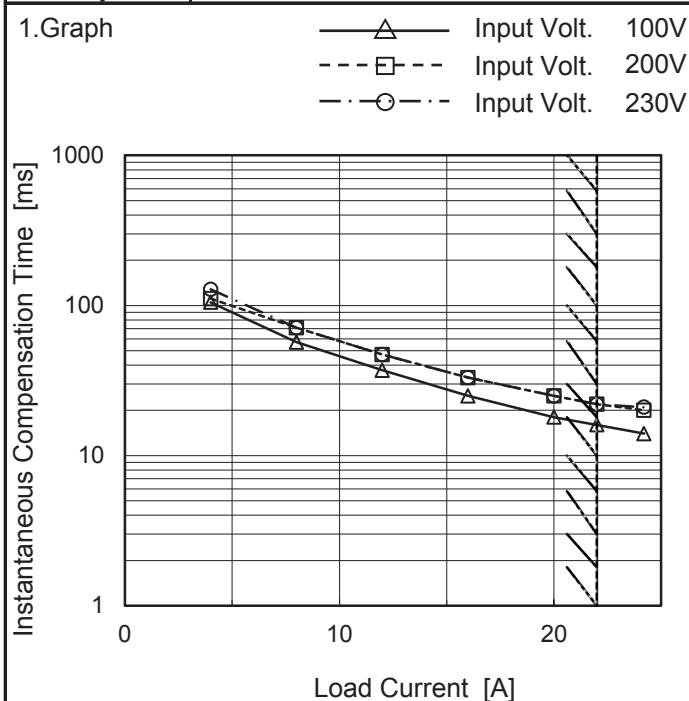


**COSEL**

Model	PCA300F-15	Temperature	25°C																														
Item	Hold-Up Time	Testing Circuitry	Figure A																														
Object	+15V22A																																
1. Graph			2. Values																														
<p>The graph illustrates the relationship between input voltage and hold-up time for two load conditions: 50% load (dashed line with square markers) and 100% load (solid line with triangle markers). The Y-axis represents hold-up time in milliseconds on a logarithmic scale, ranging from 1 to 1000 ms. The X-axis represents input voltage in Volts on a linear scale, ranging from 50 to 300 V. A slanted line at approximately 100-120V indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Hold-Up Time [ms] (Load 50%)</th> <th>Hold-Up Time [ms] (Load 100%)</th> </tr> </thead> <tbody> <tr><td>80</td><td>34</td><td>-</td></tr> <tr><td>85</td><td>34</td><td>17</td></tr> <tr><td>100</td><td>34</td><td>17</td></tr> <tr><td>120</td><td>34</td><td>17</td></tr> <tr><td>200</td><td>43</td><td>22</td></tr> <tr><td>230</td><td>44</td><td>22</td></tr> <tr><td>264</td><td>44</td><td>22</td></tr> <tr><td>280</td><td>46</td><td>23</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>				Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)	80	34	-	85	34	17	100	34	17	120	34	17	200	43	22	230	44	22	264	44	22	280	46	23	--	-	-
Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)																															
80	34	-																															
85	34	17																															
100	34	17																															
120	34	17																															
200	43	22																															
230	44	22																															
264	44	22																															
280	46	23																															
--	-	-																															
<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>																																	

**COSEL**

Model	PCA300F-15
Item	Instantaneous Interruption Compensation
Object	+15V22A


 Temperature 25°C  
 Testing Circuitry Figure A

## 2.Values

Load Current [A]	Time [ms]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	-	-	-
4.0	105	111	128
8.0	57	71	71
12.0	37	47	47
16.0	25	33	33
20.0	18	25	25
22.0	16	22	22
24.2	14	20	21
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated load current.



Model	PCA300F-15																																										
Item	Overcurrent Protection	Temperature 25°C Testing Circuitry Figure A																																									
Object	+15V22A																																										
1. Graph																																											
<p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Input Volt. 100V</p> <p>Input Volt. 230V</p>																																											
<p>Note: Slanted line shows the range of the rated load current.</p> <p>Hiccup mode activates when the output voltage is from 7.5V to 0V.</p>																																											
2. Values																																											
<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>14.25</td><td>25.28</td><td>25.31</td></tr> <tr> <td>13.50</td><td>25.25</td><td>25.28</td></tr> <tr> <td>12.00</td><td>25.24</td><td>25.28</td></tr> <tr> <td>10.50</td><td>25.29</td><td>25.29</td></tr> <tr> <td>9.00</td><td>25.34</td><td>25.34</td></tr> <tr> <td>7.50</td><td>25.32</td><td>25.32</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> </tbody> </table>			Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 230[V]	14.25	25.28	25.31	13.50	25.25	25.28	12.00	25.24	25.28	10.50	25.29	25.29	9.00	25.34	25.34	7.50	25.32	25.32	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																										
	Input Volt. 100[V]	Input Volt. 230[V]																																									
14.25	25.28	25.31																																									
13.50	25.25	25.28																																									
12.00	25.24	25.28																																									
10.50	25.29	25.29																																									
9.00	25.34	25.34																																									
7.50	25.32	25.32																																									
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Model	PCA300F-15	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	+15V22A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-20	15.038	15.038	15.038
25	15.087	15.087	15.087
50	15.124	15.124	15.125

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V22A	

## 1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	73	80
25	73	80
50	74	80

Item	Overvoltage Protection	Testing Circuitry Figure A
Object	+15V22A	

## 1.Values

Load 0%

Ambient Temperature[°C]	Operating Point [V]	
	Input Volt. 100V	Input Volt. 230V
-20	19.17	19.18
25	19.25	19.24
50	19.25	19.25

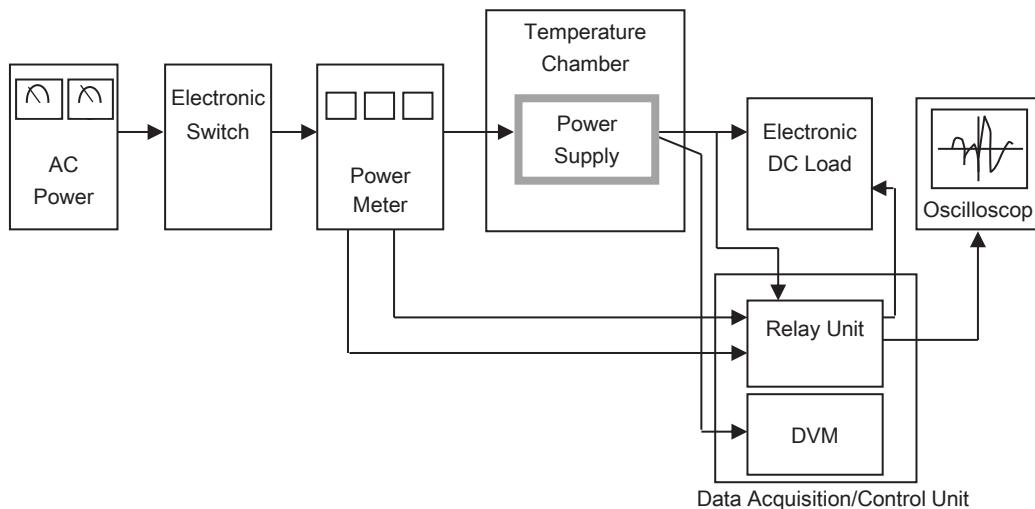


Figure A

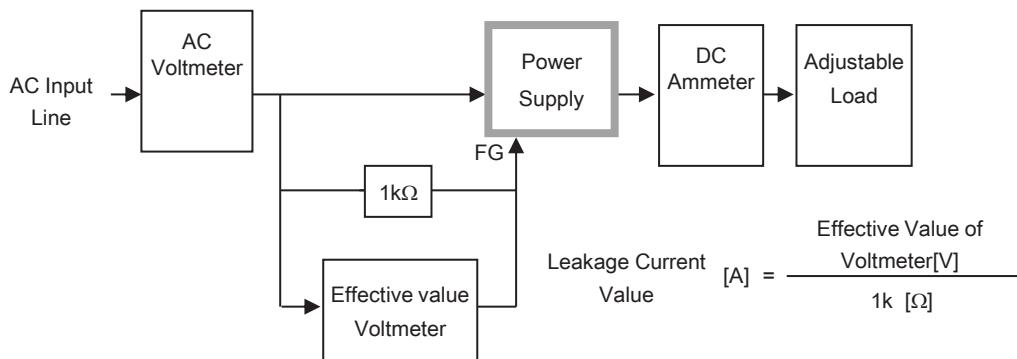


Figure B-1 ( DEN-AN )

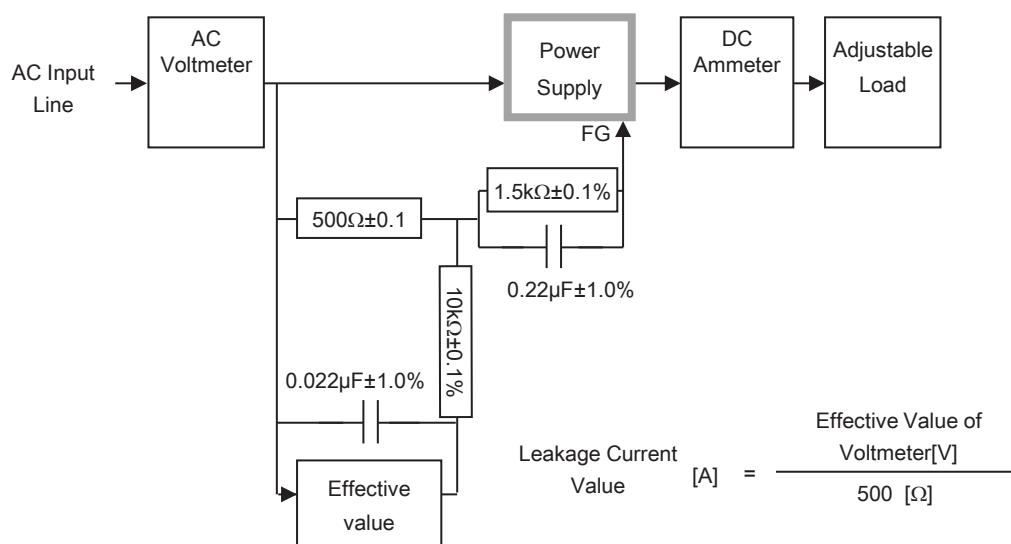


Figure B-2 ( IEC62368-1 refer to IEC60990 Fig.4 )

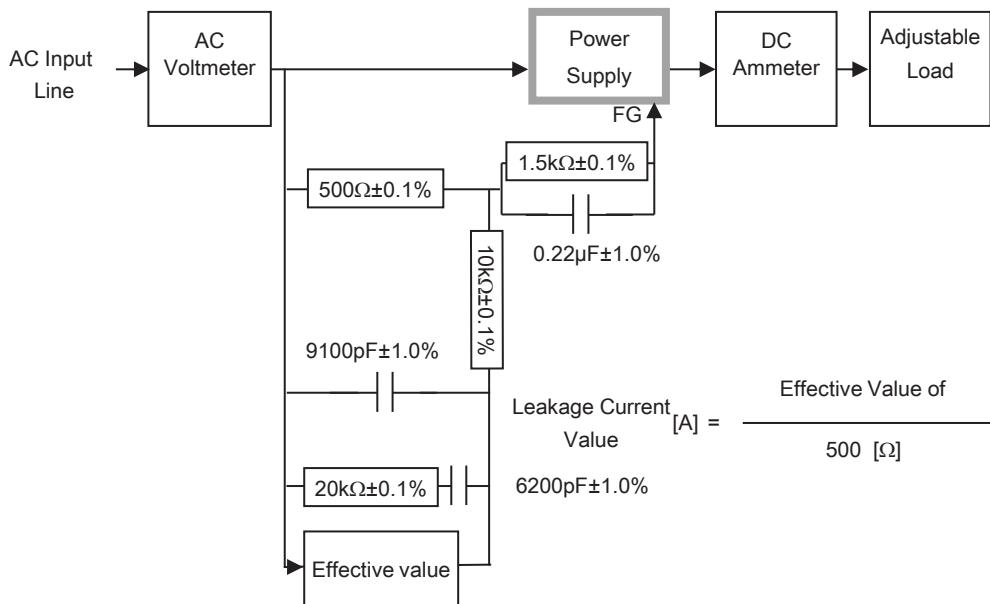


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5 )

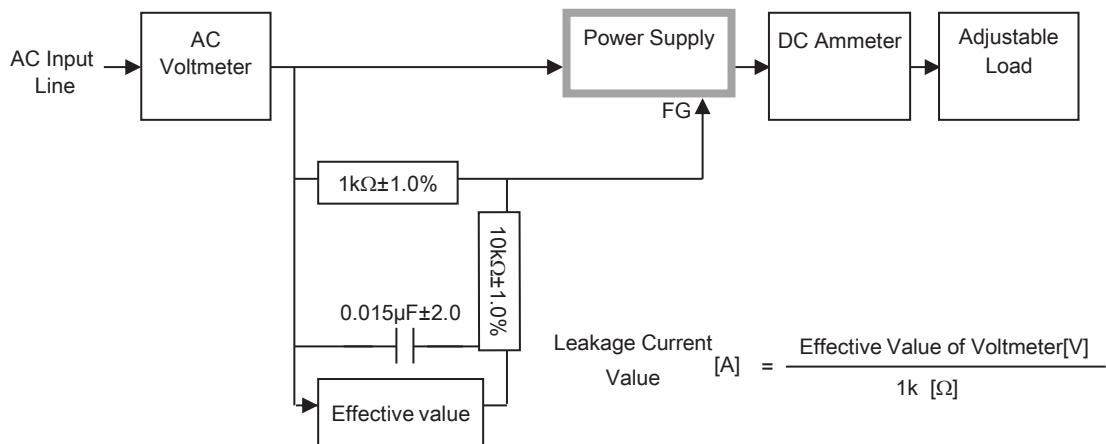
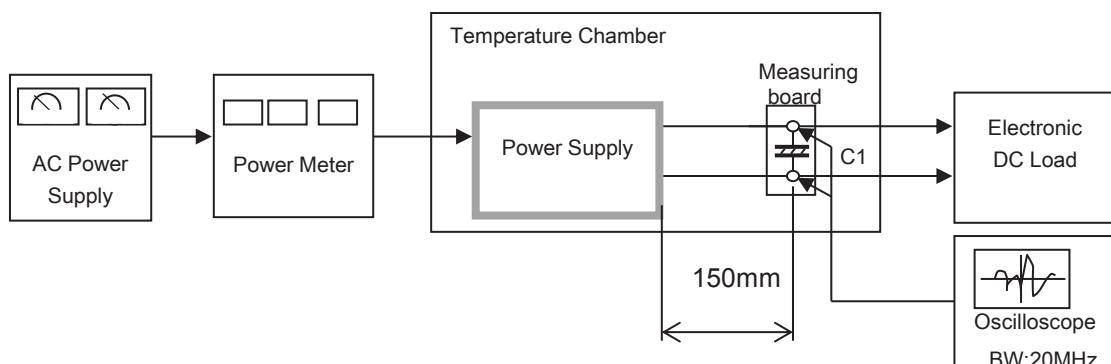


Figure B-4 ( IEC60601-1)



$C1 = 22 \mu F$   
(Electrolytic capacitor)

Figure C