

# TEST DATA OF PCA300F-5

Regulated DC Power Supply  
March 11, 2019

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Koji Todo Design Manager

Prepared by : Yuya Takeda  
Yuya Takeda Design Engineer

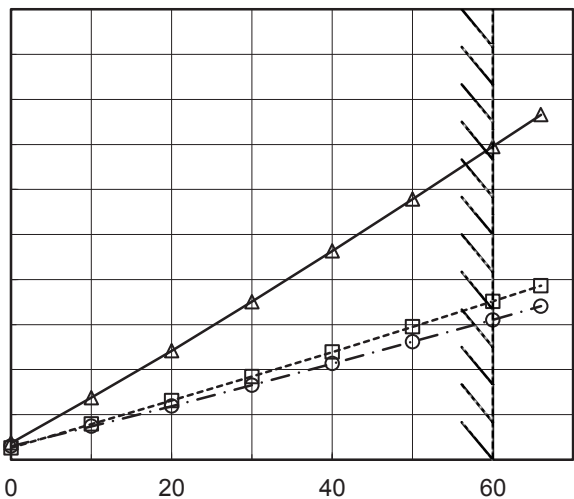
**COSEL CO.,LTD.**

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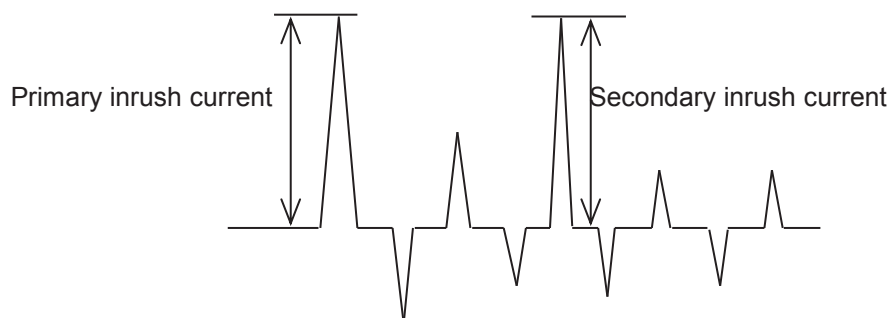
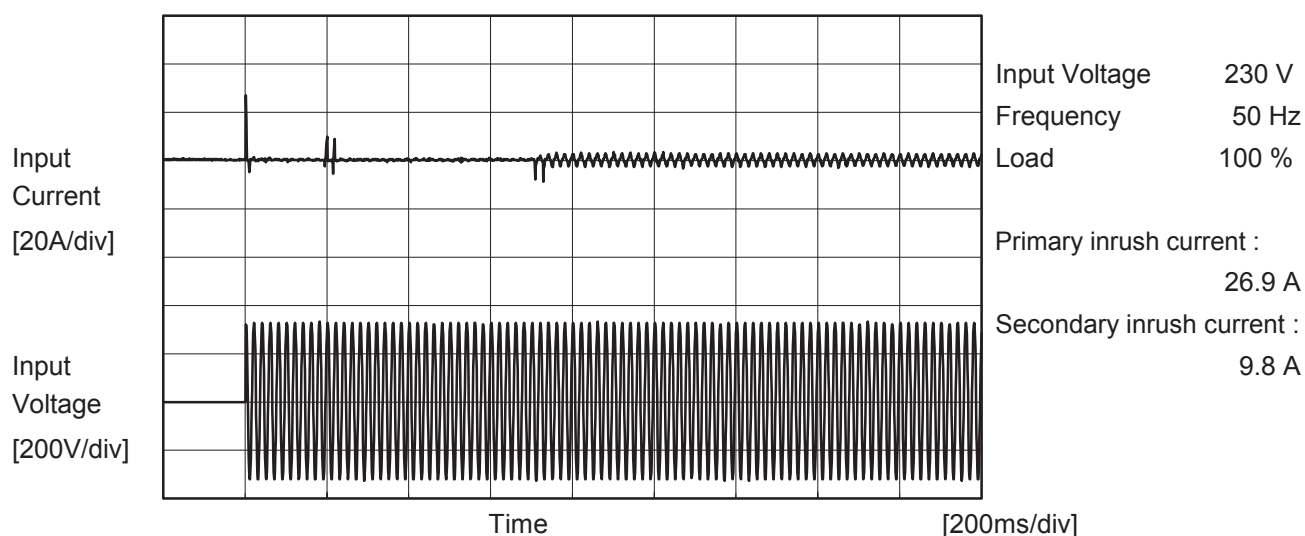
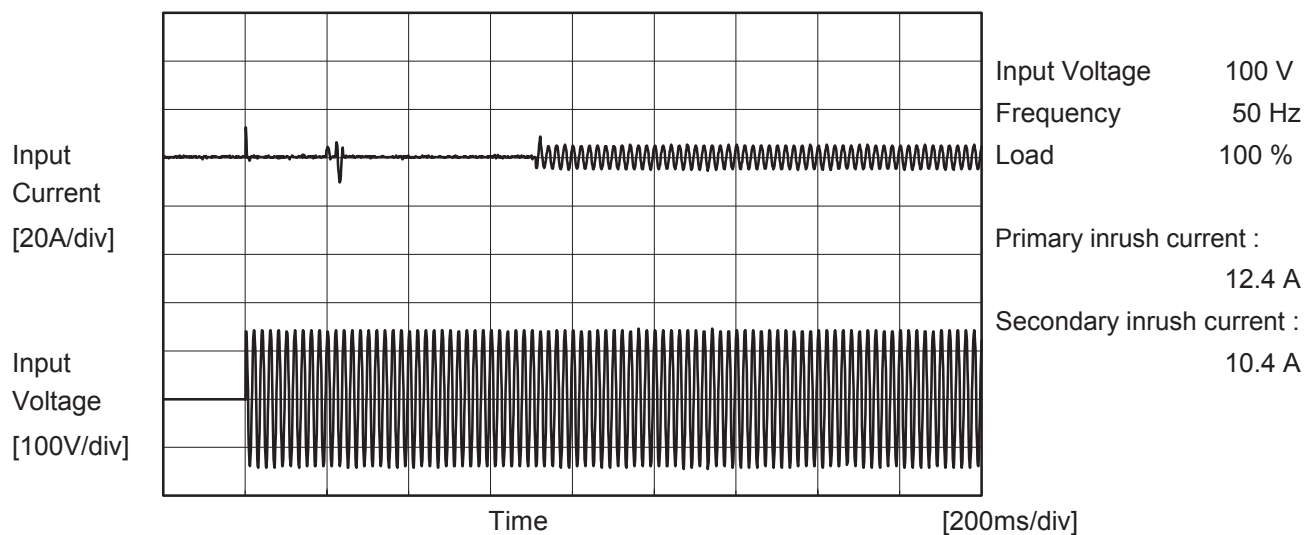
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<div><div>Input Current [A]</div><div></div><div>Load Current [A]</div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>0.185</td><td>0.131</td><td>0.149</td></tr><tr><td>10</td><td>0.688</td><td>0.395</td><td>0.369</td></tr><tr><td>20</td><td>1.208</td><td>0.655</td><td>0.593</td></tr><tr><td>30</td><td>1.754</td><td>0.923</td><td>0.827</td></tr><tr><td>40</td><td>2.317</td><td>1.194</td><td>1.066</td></tr><tr><td>50</td><td>2.892</td><td>1.474</td><td>1.309</td></tr><tr><td>60</td><td>3.476</td><td>1.757</td><td>1.551</td></tr><tr><td>66</td><td>3.830</td><td>1.931</td><td>1.704</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]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	0.185	0.131	0.149	10	0.688	0.395	0.369	20	1.208	0.655	0.593	30	1.754	0.923	0.827	40	2.317	1.194	1.066	50	2.892	1.474	1.309	60	3.476	1.757	1.551	66	3.830	1.931	1.704	--	-	-	-	--	-	-	-	--	-	-	-
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Model	PCA300F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PCA300F-5	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	0.24	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
	Figure B-3	Both phases	0.13	0.29	0.30	Operation
		One of phases	0.24	0.54	0.56	Stand by
IEC60601-1	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.

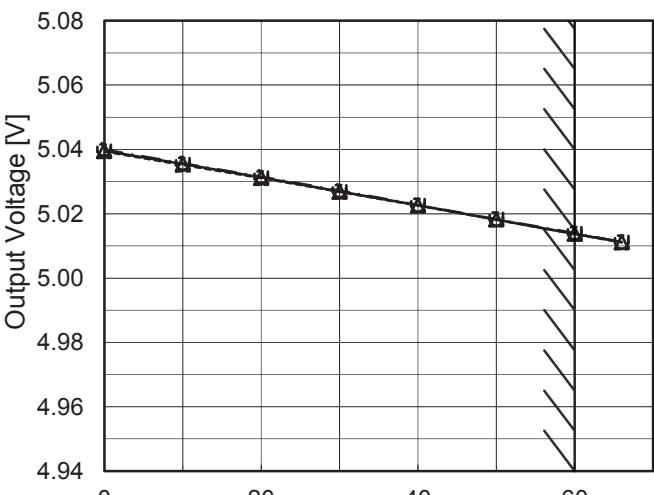
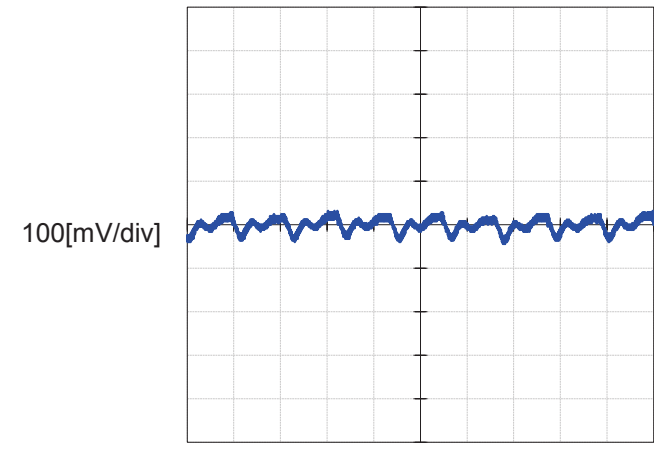
## 2.Condition

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

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Model	PCA300F-5		
Item	Line Regulation	Temperature	25°C
Object	+5V60A	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><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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# COSEL

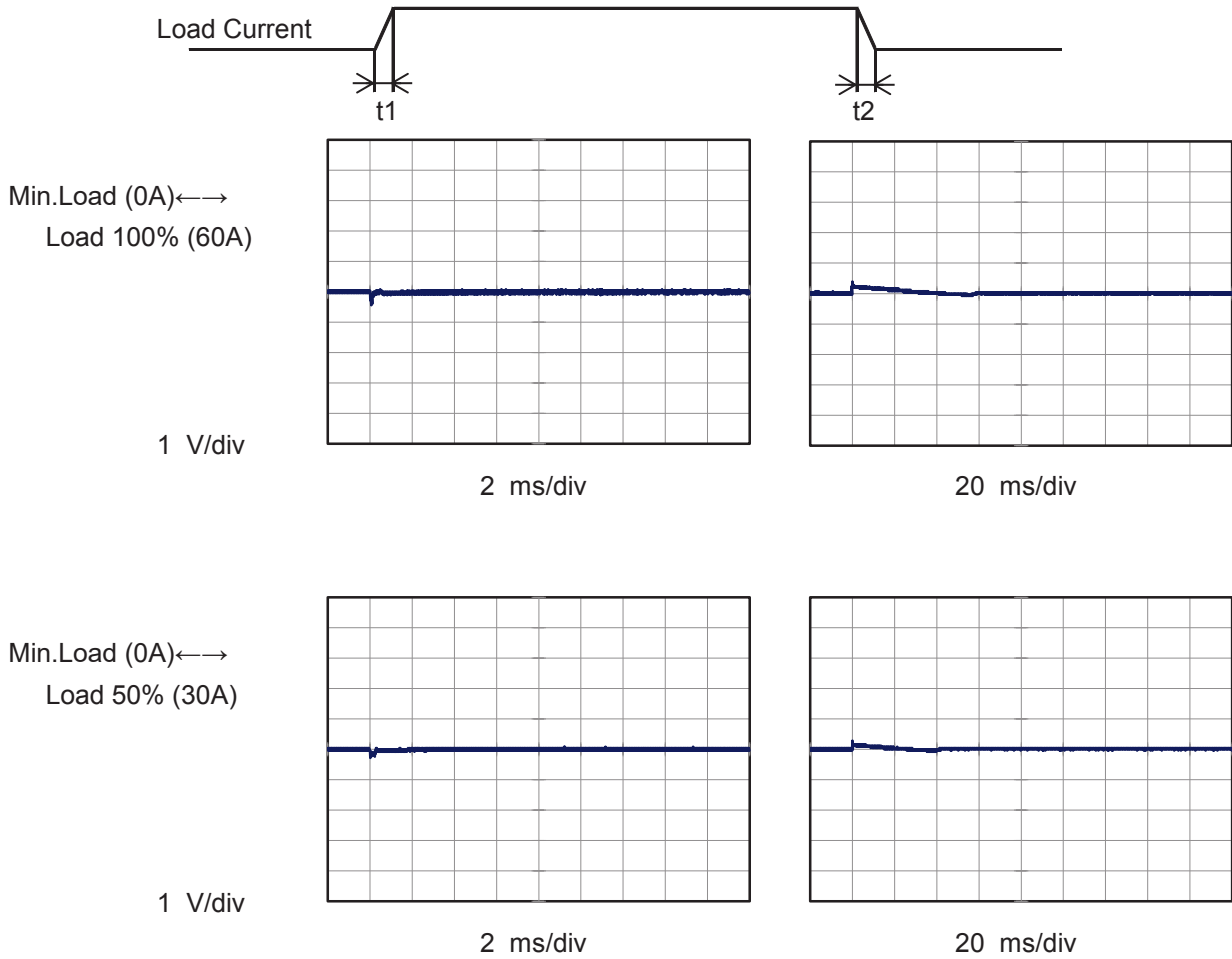
Model	PCA300F-5																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+5V60A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<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>		<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>5.040</td><td>5.039</td><td>5.040</td></tr><tr><td>10</td><td>5.036</td><td>5.035</td><td>5.036</td></tr><tr><td>20</td><td>5.031</td><td>5.031</td><td>5.032</td></tr><tr><td>30</td><td>5.027</td><td>5.027</td><td>5.027</td></tr><tr><td>40</td><td>5.023</td><td>5.023</td><td>5.023</td></tr><tr><td>50</td><td>5.018</td><td>5.018</td><td>5.018</td></tr><tr><td>60</td><td>5.014</td><td>5.014</td><td>5.014</td></tr><tr><td>66</td><td>5.011</td><td>5.011</td><td>5.011</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	5.040	5.039	5.040	10	5.036	5.035	5.036	20	5.031	5.031	5.032	30	5.027	5.027	5.027	40	5.023	5.023	5.023	50	5.018	5.018	5.018	60	5.014	5.014	5.014	66	5.011	5.011	5.011	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	5.040	5.039	5.040																																																			
10	5.036	5.035	5.036																																																			
20	5.031	5.031	5.032																																																			
30	5.027	5.027	5.027																																																			
40	5.023	5.023	5.023																																																			
50	5.018	5.018	5.018																																																			
60	5.014	5.014	5.014																																																			
66	5.011	5.011	5.011																																																			
--	-	-	-																																																			
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--	-	-	-																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
Object	+5V60A	Testing Circuitry	Figure C																																																			
1.Graph																																																						
<div><div>Input Voltage</div><div>200V</div></div> <div><div>Load</div><div>100%</div></div> 																																																						



Model	PCA300F-5		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+5V60A		

Input Volt. 200 V  
Cycle 1000 ms

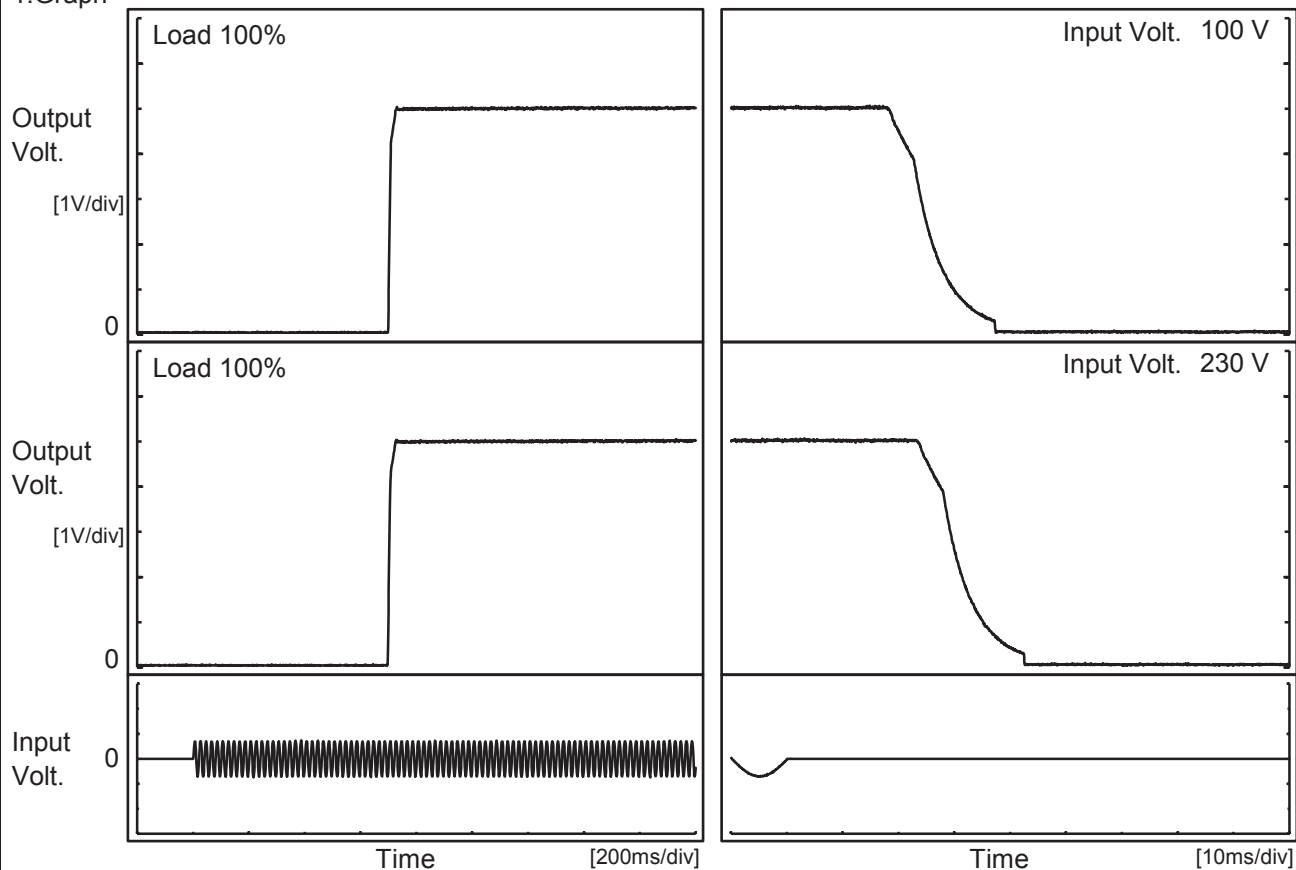
Response.  $t_1, t_2 = 50 \mu s$ . Typ



**COSEL**

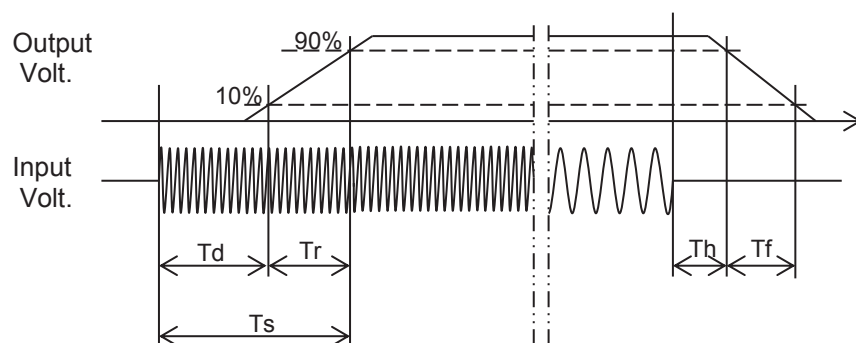
Model	PCA300F-5	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+5V60A	

## 1.Graph

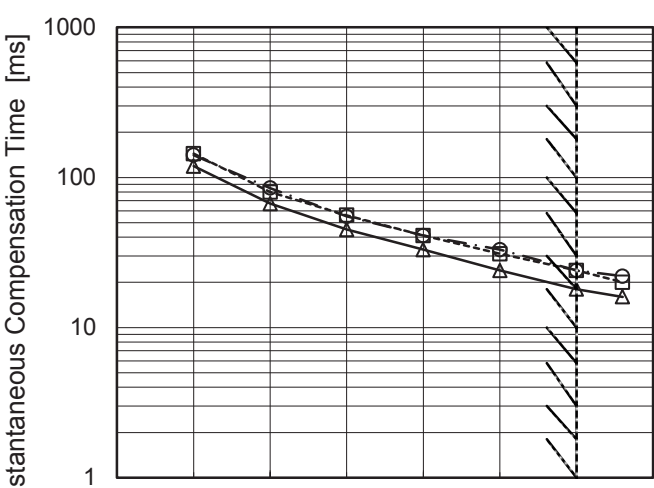


## 2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		701.0	15.0	716.0	19.9	13.5
230 V		699.0	16.0	715.0	25.2	13.6



<div>COSEL</div>																																	
Model	PCA300F-5																																
Item	Hold-Up Time	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+5V60A																																
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr></thead><tbody><tr><td>80</td><td>38</td><td>-</td></tr><tr><td>85</td><td>38</td><td>19</td></tr><tr><td>100</td><td>38</td><td>19</td></tr><tr><td>120</td><td>38</td><td>19</td></tr><tr><td>200</td><td>49</td><td>24</td></tr><tr><td>230</td><td>49</td><td>24</td></tr><tr><td>264</td><td>49</td><td>24</td></tr><tr><td>280</td><td>49</td><td>25</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note: Slanted line shows the range of the rated input voltage.</p></div>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	80	38	-	85	38	19	100	38	19	120	38	19	200	49	24	230	49	24	264	49	24	280	49	25	--	-	-		
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																															
80	38	-																															
85	38	19																															
100	38	19																															
120	38	19																															
200	49	24																															
230	49	24																															
264	49	24																															
280	49	25																															
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		- 10 -																															
		BC-11342																															

Model		PCA300F-5	Temperature 25°C	
Item		Instantaneous Interruption Compensation	Testing Circuitry Figure A	
Object		+5V60A		
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>-·-○-·-</div>Input Volt. 230V</div>	2.Values	
Instantaneous Compensation Time [ms]				
	Load Current [A]			
	Note: Slanted line shows the range of the rated load current.			

Model		PCA300F-5	Temperature Testing Circuitry	25°C Figure A
Item		Overcurrent Protection		
Object		+5V60A		

1.Graph

Input Volt. 100V

Input Volt. 230V

Output Voltage [V]



Model		PCA300F-5	Testing Circuitry    Figure A	
Item		Ambient Temperature Drift		
Object		+5V60A		
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	5.003	5.003	5.003
	25	5.013	5.012	5.012
	40	5.018	5.018	5.017
Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry    Figure A	
Object		+5V60A		
1.Values				
Ambient Temperature[°C]		Input Voltage [V]		
		Load 50%	Load 100%	
	-20	73	79	
	25	73	79	
	40	73	79	
Item		Overvoltage Protection	Testing Circuitry    Figure A	
Object		+5V60A		
1.Values <span style="float:right">Load 0%</span>				
Ambient Temperature[°C]		Operating Point [V]		
		Input Volt. 100V	Input Volt. 230V	
	-20	6.43	6.43	
	25	6.43	6.43	
	40	6.43	6.43	

- 13 -

BC-11342

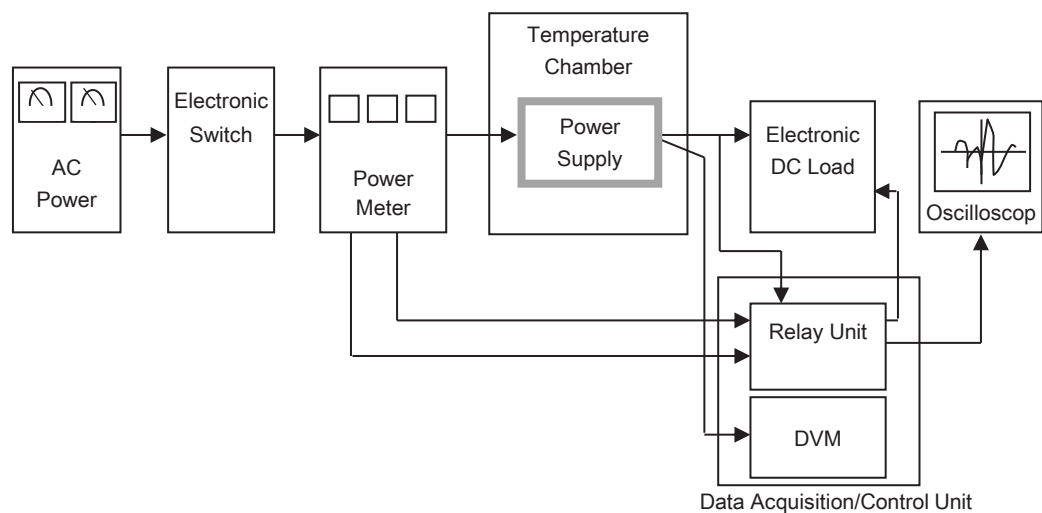


Figure A

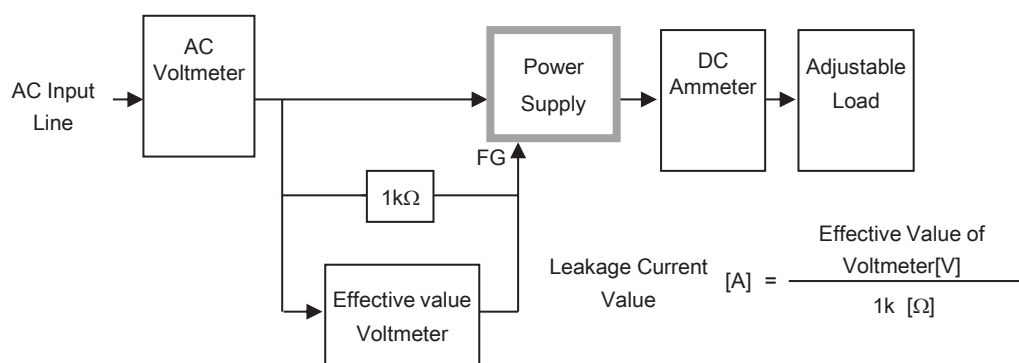


Figure B-1 ( DEN-AN )

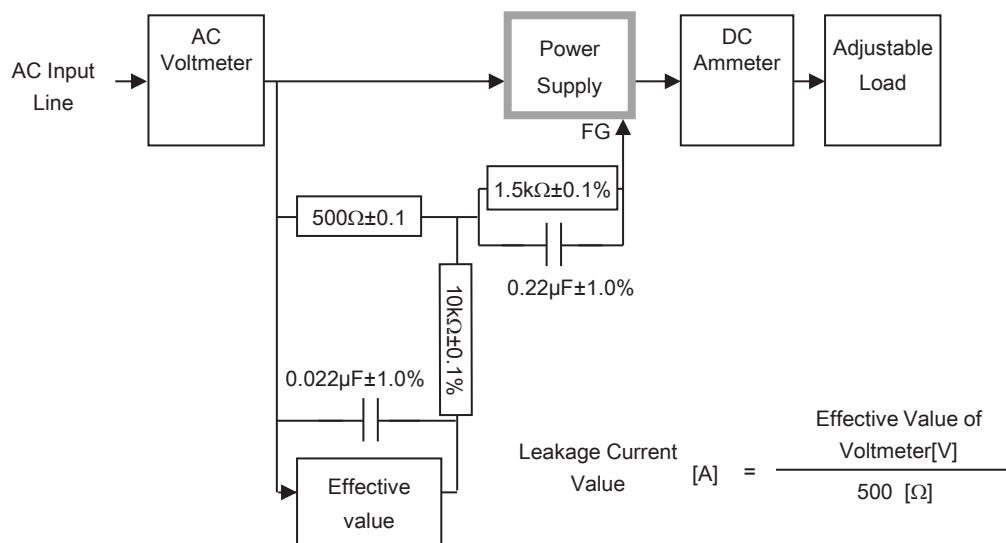


Figure B-2 ( IEC62368-1 refer to IEC60990 Fig.4 )



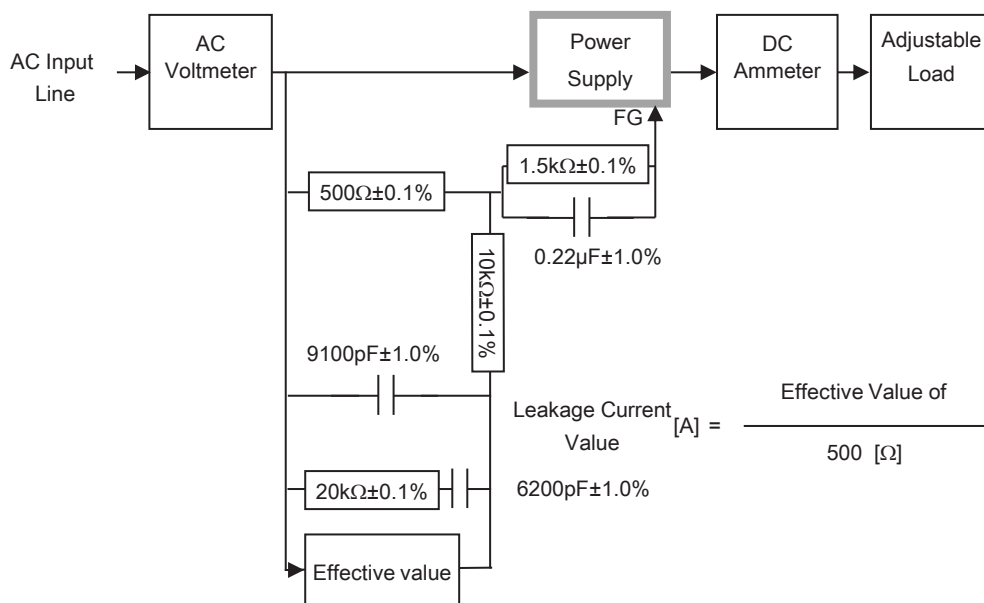


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5 )

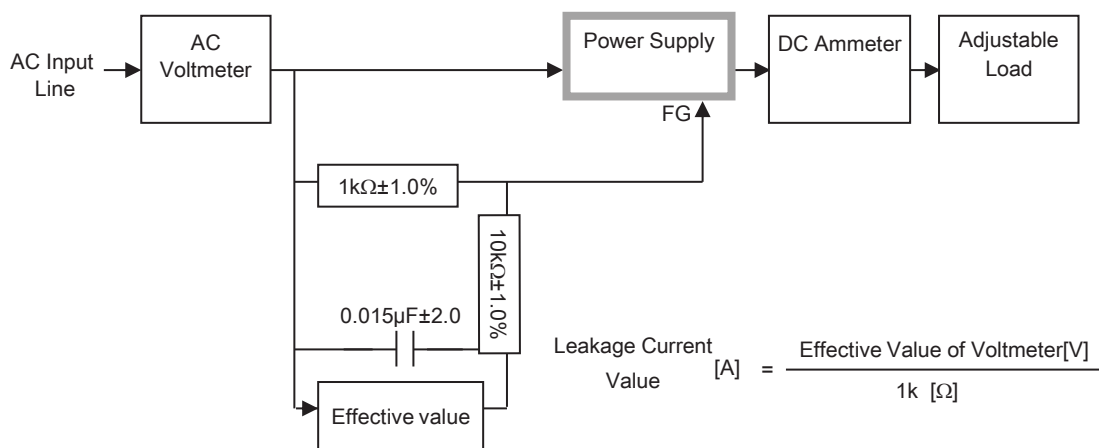


Figure B-4 ( IEC60601-1)

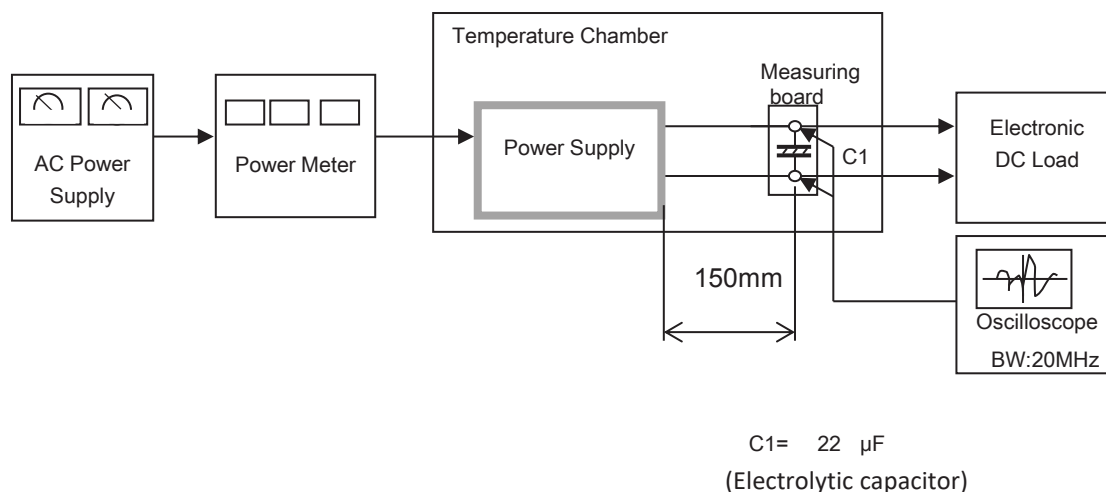


Figure C