

TEST DATA OF PCA600F-5

Regulated DC Power Supply
March 14, 2018

Approved by : Koji Todo
Koji Todo Design Manager

Prepared by : Masanobu Shima
Masanobu Shima Design Engineer

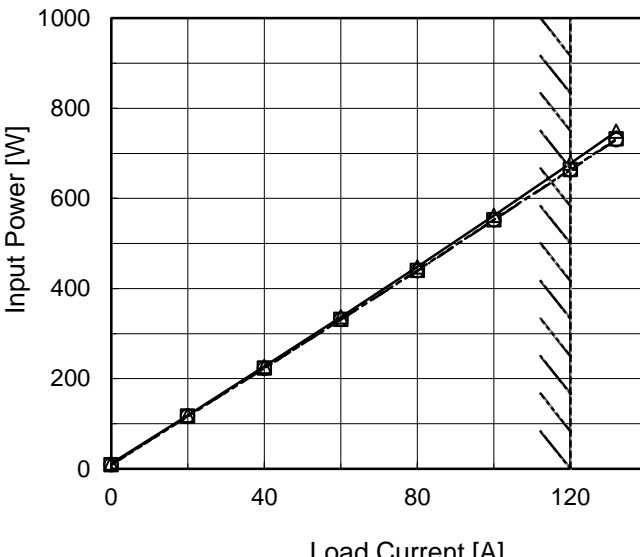
COSEL CO.,LTD.

CONTENTS

1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Power Factor (by Input Voltage)	5
6.Power Factor (by Load Current)	6
7.Inrush Current	7
8.Leakage Current	8
9.Line Regulation	9
10.Load Regulation	10
11.Dynamic Load Response	11
12.Ripple Voltage (by Load Current)	12
13.Ripple-Noise	13
14.Ripple Voltage (by Ambient Temperature)	14
15.Ambient Temperature Drift	15
16.Output Voltage Accuracy	16
17.Time Lapse Drift	17
18.Rise and Fall Time	18
19.Hold-Up Time	19
20.Instantaneous Interruption Compensation	20
21.Minimum Input Voltage for Regulated Output Voltage	21
22.Overcurrent Protection	22
23.Overvoltage Protection	23
24.Figure of Testing Circuitry	24

(Final Page 25)

Model		PCA600F-5																																																				
Item		Input Current (by Load Current)																																																				
Object																																																						
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">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>0.192</td><td>0.133</td><td>0.139</td></tr><tr><td>20</td><td>1.212</td><td>0.649</td><td>0.586</td></tr><tr><td>40</td><td>2.292</td><td>1.174</td><td>1.039</td></tr><tr><td>60</td><td>3.389</td><td>1.710</td><td>1.505</td></tr><tr><td>80</td><td>4.500</td><td>2.254</td><td>1.975</td></tr><tr><td>100</td><td>5.640</td><td>2.826</td><td>2.480</td></tr><tr><td>120</td><td>6.810</td><td>3.382</td><td>2.963</td></tr><tr><td>132</td><td>7.510</td><td>3.720</td><td>3.257</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	0.192	0.133	0.139	20	1.212	0.649	0.586	40	2.292	1.174	1.039	60	3.389	1.710	1.505	80	4.500	2.254	1.975	100	5.640	2.826	2.480	120	6.810	3.382	2.963	132	7.510	3.720	3.257	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Current [A]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	0.192	0.133	0.139																																																			
20	1.212	0.649	0.586																																																			
40	2.292	1.174	1.039																																																			
60	3.389	1.710	1.505																																																			
80	4.500	2.254	1.975																																																			
100	5.640	2.826	2.480																																																			
120	6.810	3.382	2.963																																																			
132	7.510	3.720	3.257																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			

Model		PCA600F-5		Temperature 25°C																																																				
Item		Input Power (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																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</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>12.0</td><td>8.5</td><td>9.1</td></tr><tr><td>20</td><td>118.3</td><td>116.6</td><td>116.9</td></tr><tr><td>40</td><td>227.0</td><td>223.2</td><td>222.8</td></tr><tr><td>60</td><td>336.7</td><td>331.3</td><td>331.0</td></tr><tr><td>80</td><td>448.0</td><td>440.2</td><td>439.0</td></tr><tr><td>100</td><td>562.0</td><td>552.5</td><td>552.0</td></tr><tr><td>120</td><td>678.0</td><td>663.9</td><td>663.0</td></tr><tr><td>132</td><td>749.0</td><td>732.0</td><td>730.0</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 Power [W]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	12.0	8.5	9.1	20	118.3	116.6	116.9	40	227.0	223.2	222.8	60	336.7	331.3	331.0	80	448.0	440.2	439.0	100	562.0	552.5	552.0	120	678.0	663.9	663.0	132	749.0	732.0	730.0	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0	12.0	8.5	9.1																																																					
20	118.3	116.6	116.9																																																					
40	227.0	223.2	222.8																																																					
60	336.7	331.3	331.0																																																					
80	448.0	440.2	439.0																																																					
100	562.0	552.5	552.0																																																					
120	678.0	663.9	663.0																																																					
132	749.0	732.0	730.0																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					

-

2

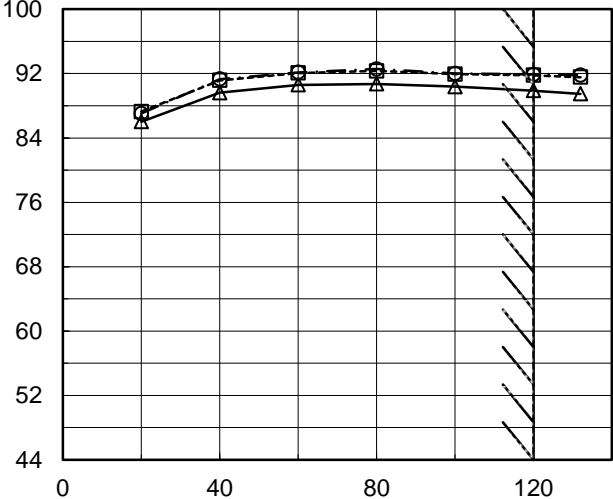
-

BC-11256



Model		PCA600F-5		Temperature 25°C																																	
Item		Efficiency (by Input Voltage)		Testing Circuitry Figure A																																	
Object																																					
1.Graph				2.Values																																	
<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 rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>80</td><td>89.8</td><td>-</td></tr><tr><td>85</td><td>90.0</td><td>-</td></tr><tr><td>100</td><td>90.6</td><td>89.9</td></tr><tr><td>120</td><td>91.0</td><td>90.7</td></tr><tr><td>200</td><td>92.1</td><td>91.7</td></tr><tr><td>230</td><td>92.2</td><td>91.9</td></tr><tr><td>264</td><td>91.5</td><td>92.2</td></tr><tr><td>280</td><td>92.4</td><td>92.0</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	80	89.8	-	85	90.0	-	100	90.6	89.9	120	91.0	90.7	200	92.1	91.7	230	92.2	91.9	264	91.5	92.2	280	92.4	92.0	--	-	-		
Input Voltage [V]	Efficiency [%]																																				
	Load 50%	Load 100%																																			
80	89.8	-																																			
85	90.0	-																																			
100	90.6	89.9																																			
120	91.0	90.7																																			
200	92.1	91.7																																			
230	92.2	91.9																																			
264	91.5	92.2																																			
280	92.4	92.0																																			
--	-	-																																			



Model		PCA600F-5		Temperature Testing Circuitry	25°C Figure A
Item		Efficiency (by Load Current)			
Object		_____			
1.Graph					
		—△—	Input Volt. 100V	2.Values	
		---□---	Input Volt. 200V		
		-·-○-·-	Input Volt. 230V		
Efficiency [%]					
Load Current [A]					
Note: Slanted line shows the range of the rated load current.					

Load Current [A]	Efficiency [%]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	-	-	-
20	86.0	87.3	87.0
40	89.6	91.2	91.3
60	90.6	92.1	92.2
80	90.7	92.3	92.6
100	90.4	91.9	92.0
120	89.9	91.8	91.9
132	89.5	91.6	91.8
--	-	-	-
--	-	-	-
--	-	-	-

- 4 -

BC-11256



Model		PCA600F-5		Temperature 25°C	
Item		Power Factor (by Input Voltage)		Testing Circuitry Figure A	
Object		_____			
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><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><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><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><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><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><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><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><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><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><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><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><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><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><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><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><</div></div></div></div>					

Model		PCA600F-5		Temperature 25°C																																																				
Item		Power Factor (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> <div><div>Power Factor</div><div>Load Current [A]</div></div>		2.Values																																																				
		<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>0.624</td><td>0.320</td><td>0.283</td></tr><tr><td>20</td><td>0.978</td><td>0.899</td><td>0.867</td></tr><tr><td>40</td><td>0.992</td><td>0.951</td><td>0.933</td></tr><tr><td>60</td><td>0.995</td><td>0.969</td><td>0.957</td></tr><tr><td>80</td><td>0.996</td><td>0.977</td><td>0.967</td></tr><tr><td>100</td><td>0.998</td><td>0.978</td><td>0.968</td></tr><tr><td>120</td><td>0.999</td><td>0.982</td><td>0.974</td></tr><tr><td>132</td><td>0.999</td><td>0.984</td><td>0.975</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	0.624	0.320	0.283	20	0.978	0.899	0.867	40	0.992	0.951	0.933	60	0.995	0.969	0.957	80	0.996	0.977	0.967	100	0.998	0.978	0.968	120	0.999	0.982	0.974	132	0.999	0.984	0.975	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Power Factor																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0	0.624	0.320	0.283																																																					
20	0.978	0.899	0.867																																																					
40	0.992	0.951	0.933																																																					
60	0.995	0.969	0.957																																																					
80	0.996	0.977	0.967																																																					
100	0.998	0.978	0.968																																																					
120	0.999	0.982	0.974																																																					
132	0.999	0.984	0.975																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								

-

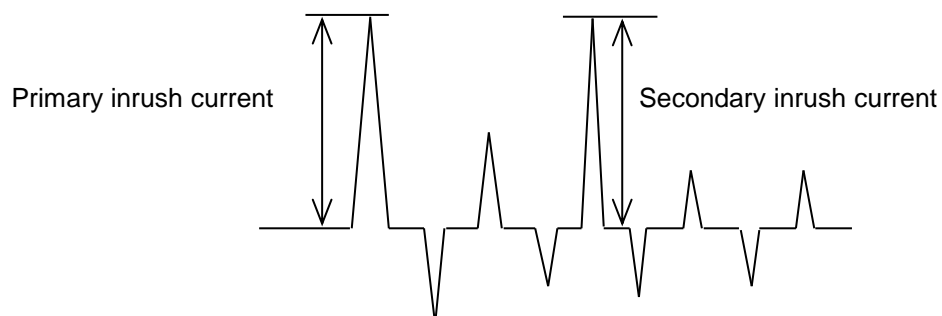
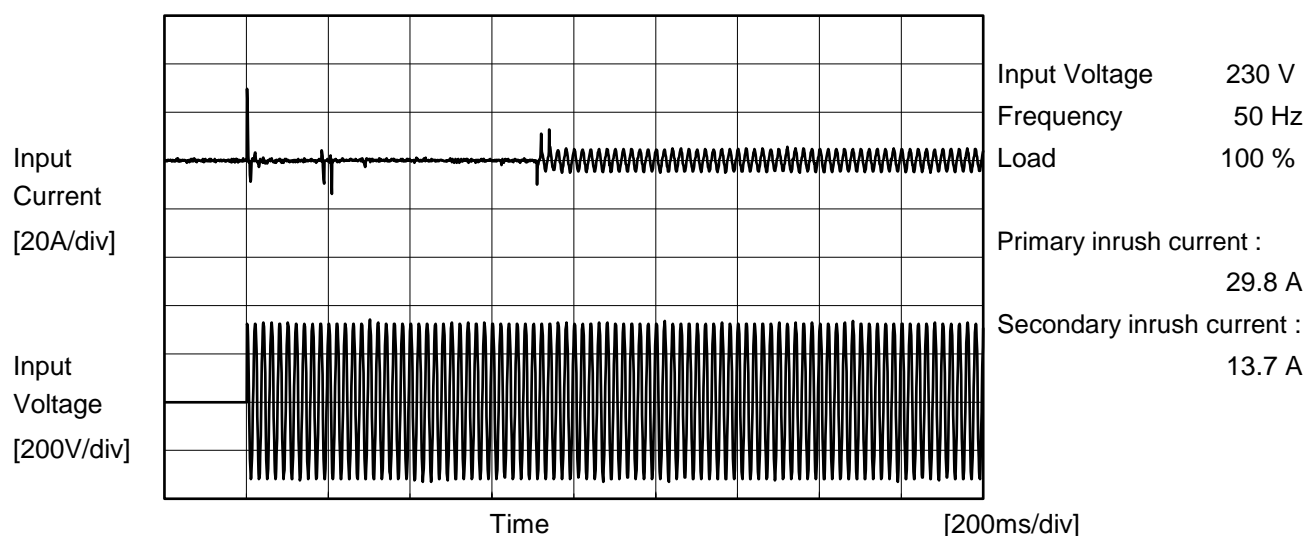
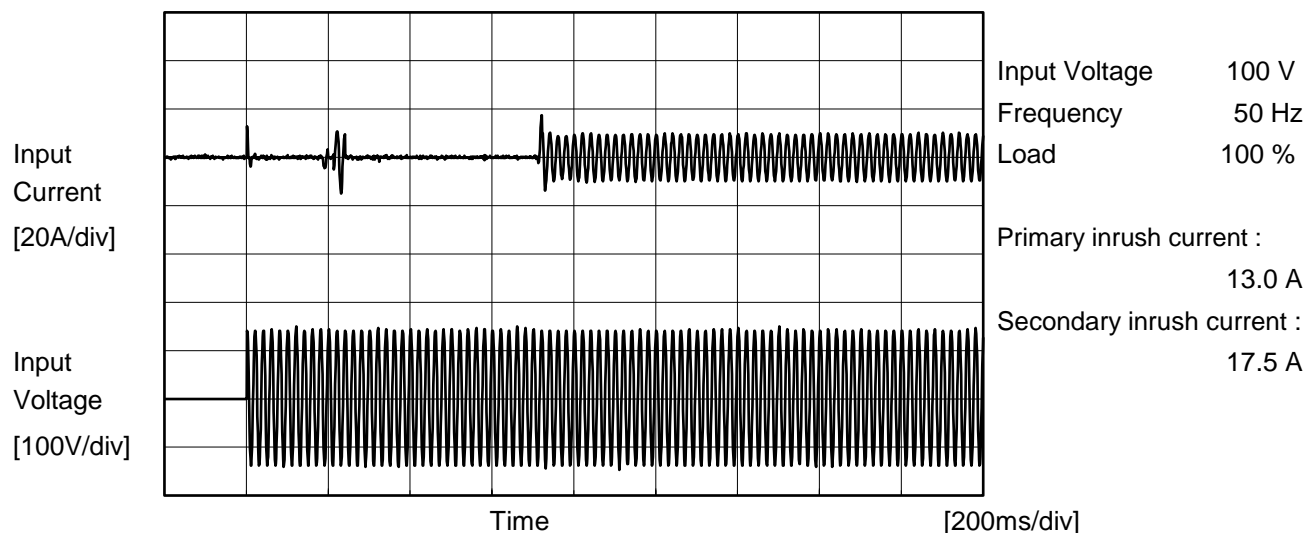
6

-

BC-11256

COSEL

Model	PCA600F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PCA600F-5	Temperature 25°C Testing Circuitry 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	0.25	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	Temperature25°C Testing CircuitryFigure A
Item		Line Regulation	
Object		+5V120A	
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> <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> <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> <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> <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> <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> <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> <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> <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> <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> <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> <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> <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>			



Model		PCA600F-5	Temperature 25°C Testing Circuitry Figure A																																																				
Item		Load Regulation																																																					
Object		+5V120A																																																					
1.Graph		<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>Output Voltage [V]</div><div><div>Load Current [A]</div></div></div><div>Note: Slanted line shows the range of the rated load current.</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>5.098</td><td>5.098</td><td>5.098</td></tr><tr><td>20</td><td>5.097</td><td>5.098</td><td>5.097</td></tr><tr><td>40</td><td>5.096</td><td>5.097</td><td>5.096</td></tr><tr><td>60</td><td>5.096</td><td>5.096</td><td>5.095</td></tr><tr><td>80</td><td>5.095</td><td>5.095</td><td>5.095</td></tr><tr><td>100</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>120</td><td>5.093</td><td>5.093</td><td>5.093</td></tr><tr><td>132</td><td>5.092</td><td>5.093</td><td>5.093</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	5.098	5.098	5.098	20	5.097	5.098	5.097	40	5.096	5.097	5.096	60	5.096	5.096	5.095	80	5.095	5.095	5.095	100	5.094	5.094	5.094	120	5.093	5.093	5.093	132	5.092	5.093	5.093	--	-	-	-	--	-	-	-	--	-	-	-		
Load Current [A]	Output Voltage [V]																																																						
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																				
0	5.098	5.098	5.098																																																				
20	5.097	5.098	5.097																																																				
40	5.096	5.097	5.096																																																				
60	5.096	5.096	5.095																																																				
80	5.095	5.095	5.095																																																				
100	5.094	5.094	5.094																																																				
120	5.093	5.093	5.093																																																				
132	5.092	5.093	5.093																																																				
--	-	-	-																																																				
--	-	-	-																																																				
--	-	-	-																																																				

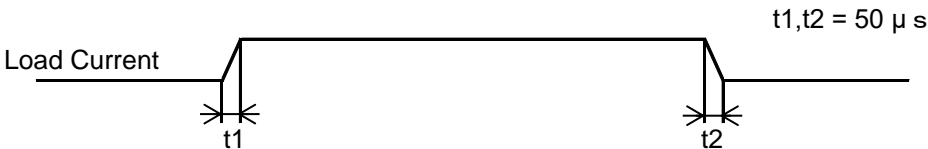
- 10 -

BC-11256



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

Input Volt. 100 V
Cycle 1000 ms



Min.Load (0A) ←→
Load 100% (120A)

1 V/div

2 ms/div

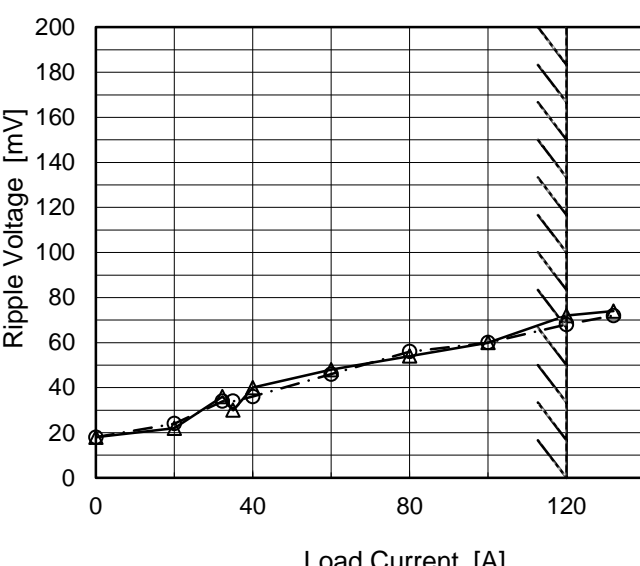
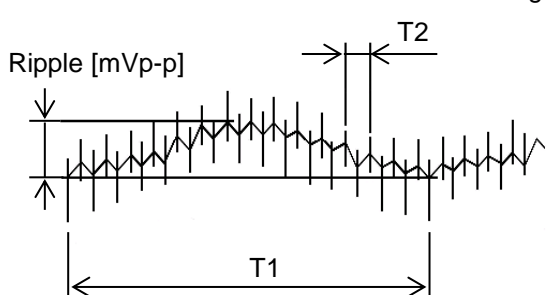
10 ms/div

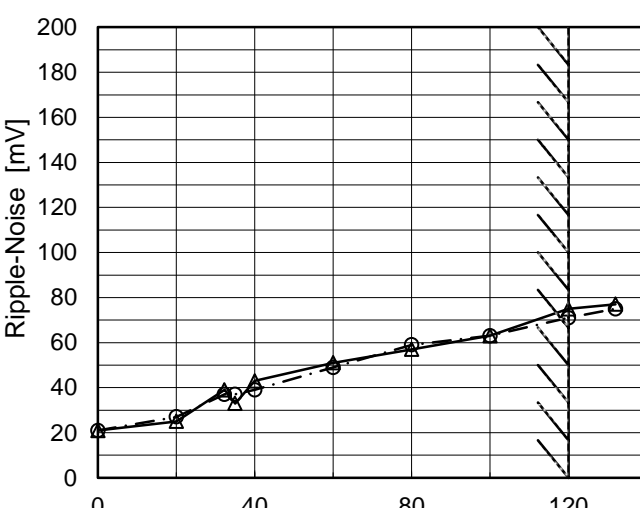
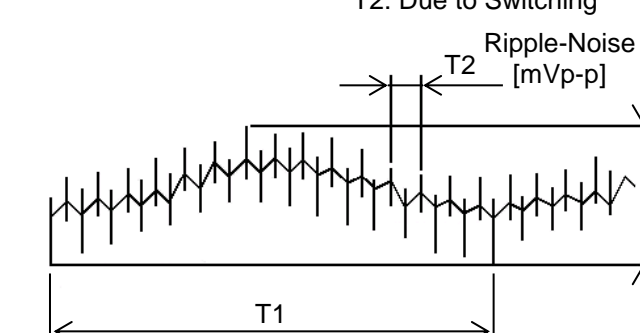
Min.Load (0A) ←→
Load 50% (60A)


1 V/div

2 ms/div

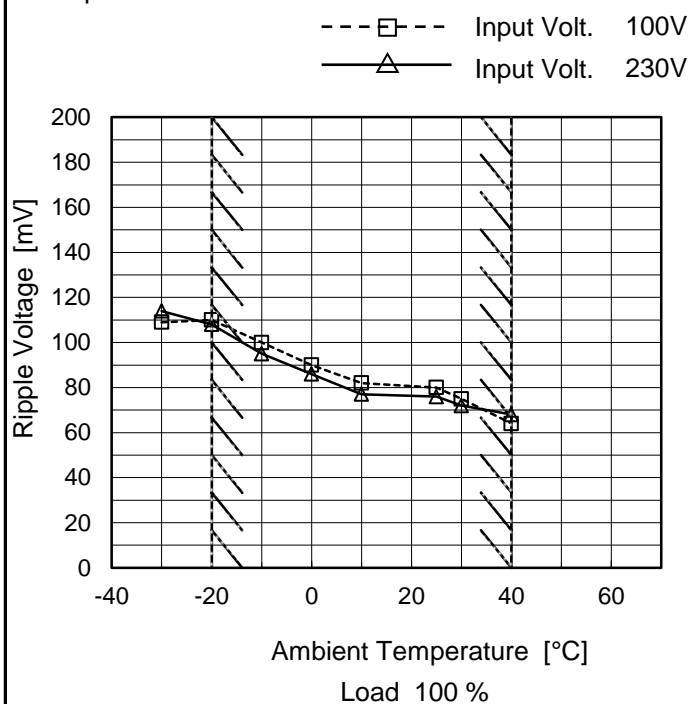
10 ms/div

Model		PCA600F-5		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																							
Object		+5V120A																																									
1.Graph				2.Values																																							
<div><div><div>—△— Input Volt. 100V</div><div>-○- - Input Volt. 230V</div></div></div>				<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>18</td><td>18</td></tr><tr><td>20.0</td><td>22</td><td>24</td></tr><tr><td>32.3</td><td>36</td><td>34</td></tr><tr><td>35.0</td><td>30</td><td>34</td></tr><tr><td>40.0</td><td>40</td><td>36</td></tr><tr><td>60.0</td><td>48</td><td>46</td></tr><tr><td>80.0</td><td>54</td><td>56</td></tr><tr><td>100.0</td><td>60</td><td>60</td></tr><tr><td>120.0</td><td>72</td><td>68</td></tr><tr><td>132.0</td><td>74</td><td>72</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	18	18	20.0	22	24	32.3	36	34	35.0	30	34	40.0	40	36	60.0	48	46	80.0	54	56	100.0	60	60	120.0	72	68	132.0	74	72	--	-	-
Load Current [A]	Ripple Voltage [mV]																																										
	Input Volt. 100 [V]	Input Volt. 230 [V]																																									
0.0	18	18																																									
20.0	22	24																																									
32.3	36	34																																									
35.0	30	34																																									
40.0	40	36																																									
60.0	48	46																																									
80.0	54	56																																									
100.0	60	60																																									
120.0	72	68																																									
132.0	74	72																																									
--	-	-																																									
<div>Measured by 20 MHz Oscilloscope.</div> <div>Ripple Voltage is shown as p-p in the figure below.</div> <div>Note: Slanted line shows the range of the rated load current.</div> <div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div></div>																																											
Fig. Complex Ripple Wave Form																																											

Model		PCA600F-5																																							
Item		Ripple-Noise																																							
Object		+5V120A																																							
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 100V</div><div>-·-○-·- Input Volt. 230V</div></div><p>Measured by 20 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>21</td><td>21</td></tr><tr><td>20.0</td><td>25</td><td>27</td></tr><tr><td>32.3</td><td>39</td><td>37</td></tr><tr><td>35.0</td><td>33</td><td>37</td></tr><tr><td>40.0</td><td>43</td><td>39</td></tr><tr><td>60.0</td><td>51</td><td>49</td></tr><tr><td>80.0</td><td>57</td><td>59</td></tr><tr><td>100.0</td><td>63</td><td>63</td></tr><tr><td>120.0</td><td>75</td><td>71</td></tr><tr><td>132.0</td><td>77</td><td>75</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	0.0	21	21	20.0	25	27	32.3	39	37	35.0	33	37	40.0	43	39	60.0	51	49	80.0	57	59	100.0	63	63	120.0	75	71	132.0	77	75	--	-	-
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
0.0	21	21																																							
20.0	25	27																																							
32.3	39	37																																							
35.0	33	37																																							
40.0	43	39																																							
60.0	51	49																																							
80.0	57	59																																							
100.0	63	63																																							
120.0	75	71																																							
132.0	77	75																																							
--	-	-																																							
<div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><p>Fig. Complex Ripple Wave Form</p></div>																																									

	
Model	PCA600F-5
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	109	114
-20	110	108
-10	100	95
0	90	86
10	82	77
25	80	76
30	75	72
40	64	68
--	-	-
--	-	-
--	-	-

Model		PCA600F-5																																																				
Item		Ambient Temperature Drift																																																				
Object		+5V120A																																																				
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>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>		<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>5.093</td><td>5.093</td><td>5.093</td></tr><tr><td>-20</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>-10</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>0</td><td>5.093</td><td>5.093</td><td>5.093</td></tr><tr><td>10</td><td>5.093</td><td>5.093</td><td>5.093</td></tr><tr><td>25</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>30</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>40</td><td>5.095</td><td>5.095</td><td>5.095</td></tr><tr><td>50</td><td>5.095</td><td>5.095</td><td>5.095</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	5.093	5.093	5.093	-20	5.094	5.094	5.094	-10	5.094	5.094	5.094	0	5.093	5.093	5.093	10	5.093	5.093	5.093	25	5.094	5.094	5.094	30	5.094	5.094	5.094	40	5.095	5.095	5.095	50	5.095	5.095	5.095	--	-	-	-	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
-30	5.093	5.093	5.093																																																			
-20	5.094	5.094	5.094																																																			
-10	5.094	5.094	5.094																																																			
0	5.093	5.093	5.093																																																			
10	5.093	5.093	5.093																																																			
25	5.094	5.094	5.094																																																			
30	5.094	5.094	5.094																																																			
40	5.095	5.095	5.095																																																			
50	5.095	5.095	5.095																																																			
--	-	-	-																																																			
--	-	-	-																																																			



Model		PCA600F-5	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	100	0	5.100	±3	±0.1
Minimum Voltage	-20	85	108	5.094		

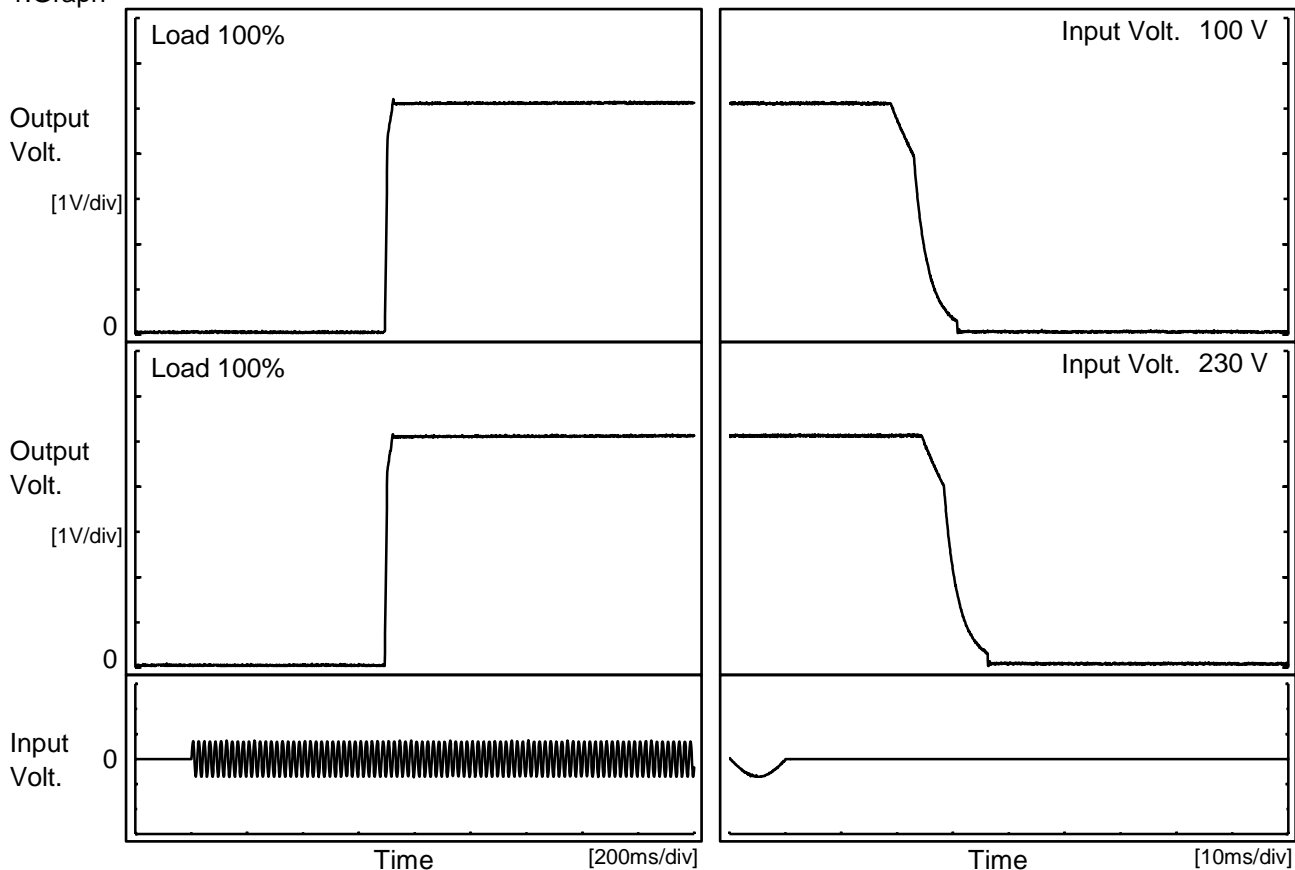


Model		PCA600F-5	Temperature 25°C Testing Circuitry Figure A																						
Item		Time Lapse Drift																							
Object		+5V120A																							
1.Graph			2.Values																						
<div><div><div>Output Voltage [V]</div><div><div><div>5.16</div><div>5.14</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div>Time [H]</div></div><div><div>Input Volt.</div><div>230V</div><div>Load</div><div>100%</div></div></div></div>			<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.093</td></tr><tr><td>0.5</td><td>5.092</td></tr><tr><td>1.0</td><td>5.093</td></tr><tr><td>2.0</td><td>5.093</td></tr><tr><td>3.0</td><td>5.093</td></tr><tr><td>4.0</td><td>5.093</td></tr><tr><td>5.0</td><td>5.093</td></tr><tr><td>6.0</td><td>5.093</td></tr><tr><td>7.0</td><td>5.093</td></tr><tr><td>8.0</td><td>5.093</td></tr></table>	Time since start [H]	Output Voltage [V]	0.0	5.093	0.5	5.092	1.0	5.093	2.0	5.093	3.0	5.093	4.0	5.093	5.0	5.093	6.0	5.093	7.0	5.093	8.0	5.093
Time since start [H]	Output Voltage [V]																								
0.0	5.093																								
0.5	5.092																								
1.0	5.093																								
2.0	5.093																								
3.0	5.093																								
4.0	5.093																								
5.0	5.093																								
6.0	5.093																								
7.0	5.093																								
8.0	5.093																								
* The characteristic of AC100V is equal.																									



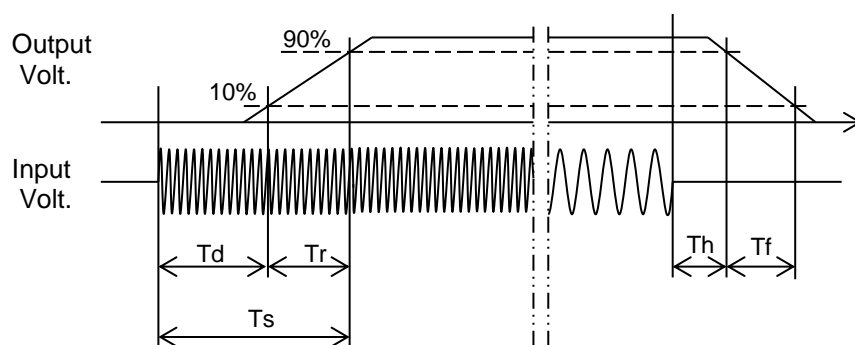
Model	PCA600F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V120A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		695.0	13.0	708.0	20.7	8.0
230 V		694.0	13.0	707.0	26.4	7.9



Model		PCA600F-5	Temperature		25°C																																
Item		Hold-Up Time	Testing Circuitry		Figure A																																
Object		+5V120A																																			
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>Load 50%</div><div>Load 100%</div></div> <table><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>80</td><td>39</td><td>-</td></tr><tr><td>85</td><td>40</td><td>-</td></tr><tr><td>100</td><td>39</td><td>19</td></tr><tr><td>120</td><td>40</td><td>19</td></tr><tr><td>200</td><td>51</td><td>25</td></tr><tr><td>230</td><td>51</td><td>25</td></tr><tr><td>264</td><td>51</td><td>25</td></tr><tr><td>280</td><td>51</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%	80	39	-	85	40	-	100	39	19	120	40	19	200	51	25	230	51	25	264	51	25	280	51	25	--	-	-			
Input Voltage [V]	Hold-Up Time [ms]																																				
	Load 50%	Load 100%																																			
80	39	-																																			
85	40	-																																			
100	39	19																																			
120	40	19																																			
200	51	25																																			
230	51	25																																			
264	51	25																																			
280	51	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.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																					

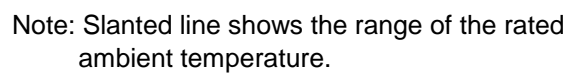
<div>LOREL</div>																																																						
Model	PCA600F-5																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+5V120A	Testing Circuitry	Figure A																																																			
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> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>04080120</div><div>Load Current [A]</div></div></div>		<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>107</td><td>140</td><td>141</td></tr><tr><td>40</td><td>58</td><td>75</td><td>75</td></tr><tr><td>60</td><td>40</td><td>51</td><td>51</td></tr><tr><td>80</td><td>30</td><td>37</td><td>37</td></tr><tr><td>100</td><td>21</td><td>31</td><td>31</td></tr><tr><td>120</td><td>16</td><td>20</td><td>21</td></tr><tr><td>132</td><td>13</td><td>16</td><td>16</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	107	140	141	40	58	75	75	60	40	51	51	80	30	37	37	100	21	31	31	120	16	20	21	132	13	16	16	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	-	-	-																																																			
20	107	140	141																																																			
40	58	75	75																																																			
60	40	51	51																																																			
80	30	37	37																																																			
100	21	31	31																																																			
120	16	20	21																																																			
132	13	16	16																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note: Slanted line shows the range of the rated load current.																																																						

- 20 -

BC-11256

Testing Circuitry Figure A

2.Values



Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	73	78
-20	73	78
-10	73	78
0	73	78
10	73	78
25	74	78
30	74	78
40	74	78
50	74	78
--	-	-
--	-	-

Model		PCA600F-5	
Item		Overcurrent Protection	
Object		+5V120A	

1.Graph

Input Volt. 100V

Input Volt. 230V

Output Voltage [V]

Model		PCA600F-5
Item		Overvoltage Protection
Object		+5V120A

1.Graph

—△—

Input Volt. 100V

---□---

Input Volt. 230V

Operating Point [V]

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	6.44	6.44
-20	6.44	6.44
-10	6.44	6.44
0	6.44	6.44
10	6.44	6.44
25	6.44	6.44
30	6.43	6.43
40	6.43	6.43
50	6.43	6.43
--	-	-
--	-	-

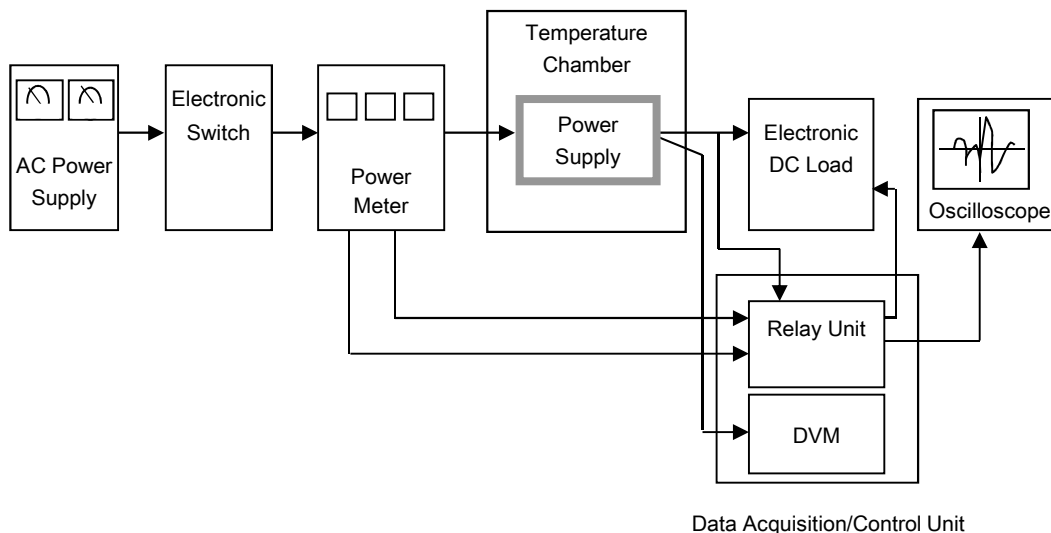


Figure A

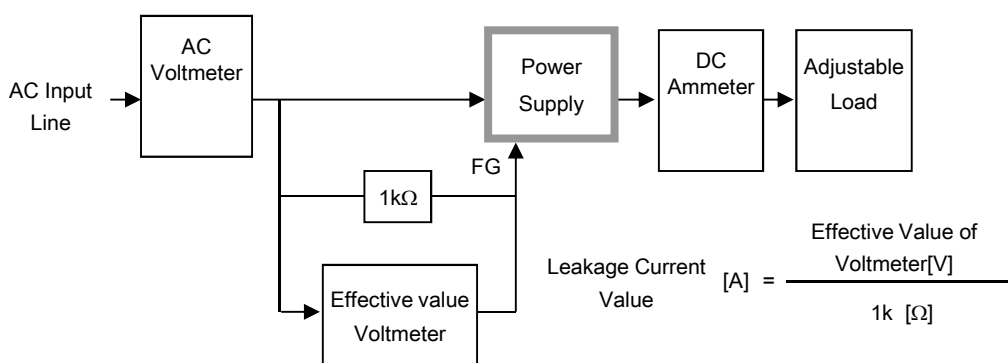


Figure B-1 (DEN-AN)

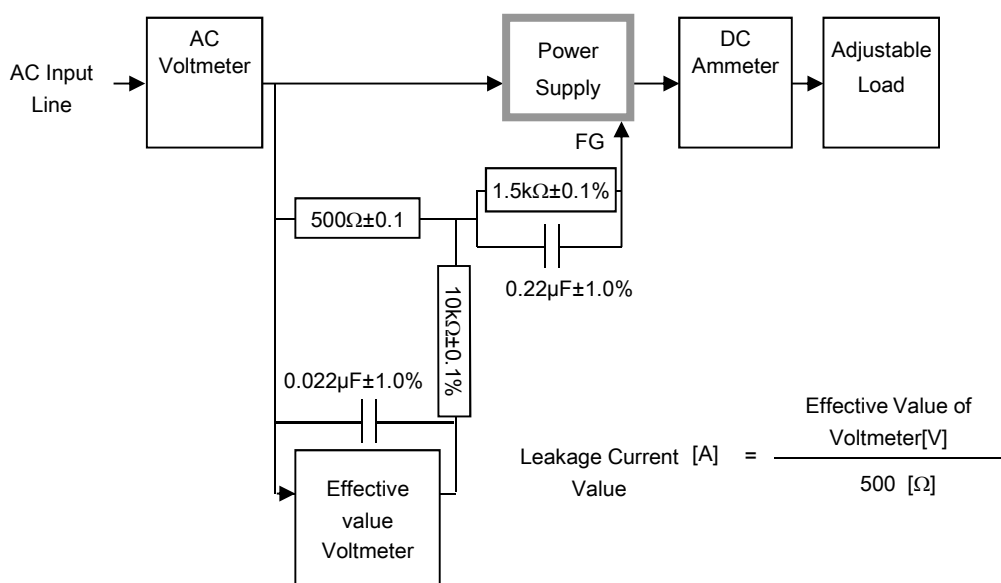


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

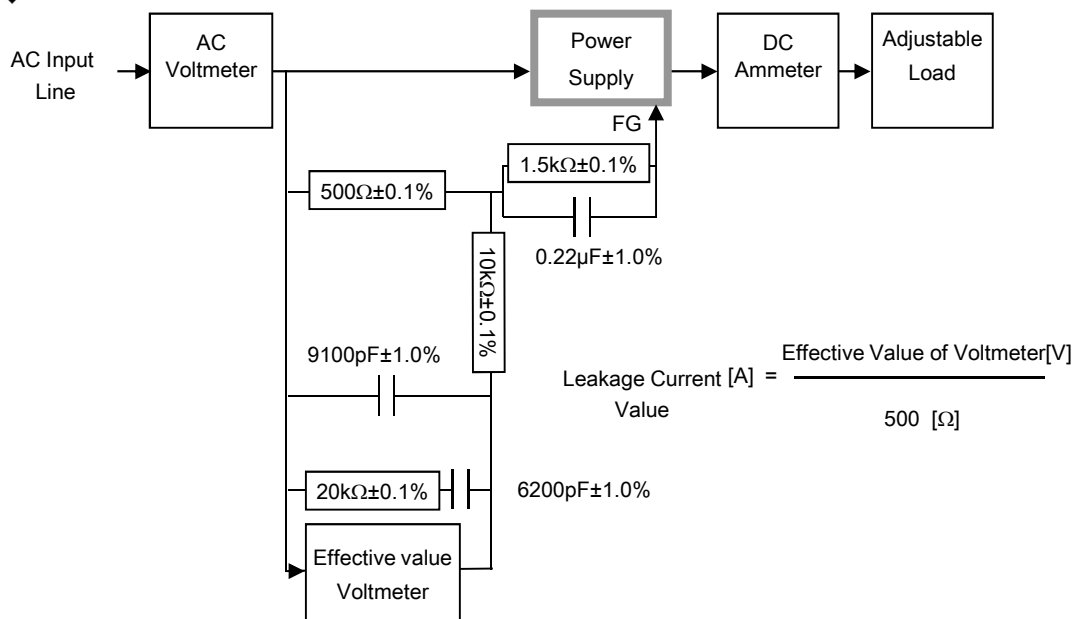


Figure B-3 (IEC62368-1 refer to IEC60990 Fig.5)

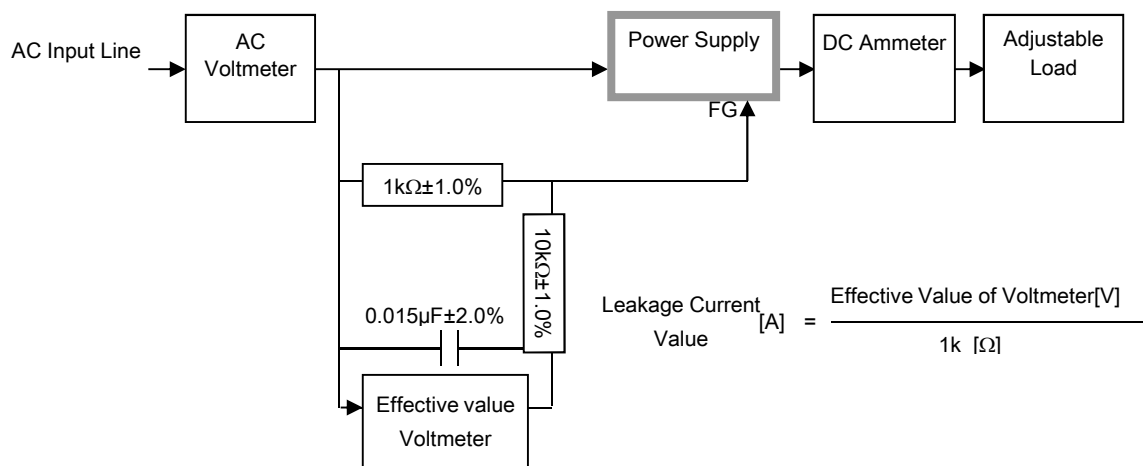


Figure B-4 (IEC60601-1)

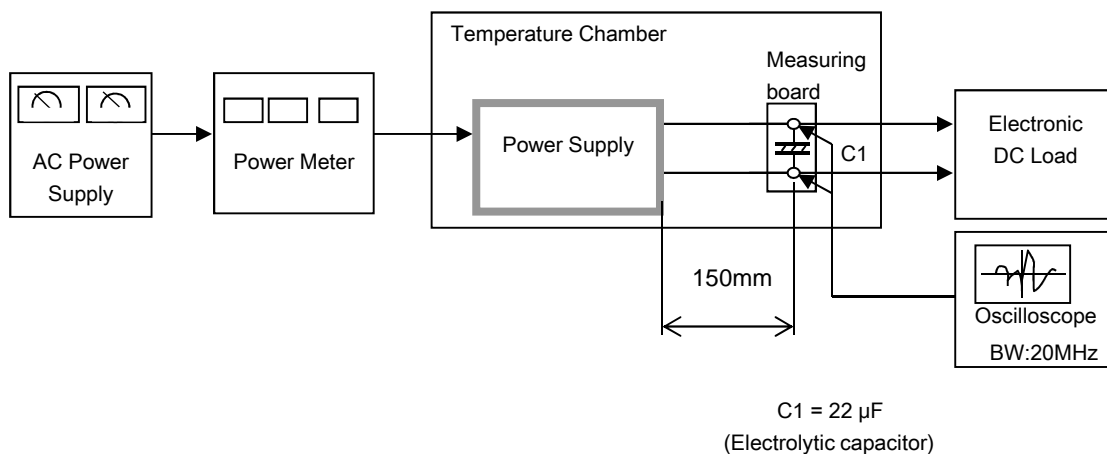


Figure C