

TEST DATA OF PDA600F-5

Regulated DC Power Supply
November 28, 2025

Approved by : Yoshiaki Shimizu
Design Manager

Prepared by : Fangcheng Zhong
Design Engineer

COSEL CO.,LTD.

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Model		PDA600F-5	Temperature 25°C Testing Circuitry Figure A																																																				
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Object		_____																																																					
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><table><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</td><td>0.184</td><td>0.163</td><td>0.174</td></tr><tr><td>20</td><td>1.380</td><td>0.795</td><td>0.722</td></tr><tr><td>40</td><td>2.565</td><td>1.359</td><td>1.216</td></tr><tr><td>60</td><td>3.790</td><td>1.932</td><td>1.727</td></tr><tr><td>80</td><td>5.070</td><td>2.555</td><td>2.243</td></tr><tr><td>100</td><td>6.400</td><td>3.196</td><td>2.800</td></tr><tr><td>120</td><td>7.790</td><td>3.860</td><td>3.375</td></tr><tr><td>132</td><td>8.660</td><td>4.260</td><td>3.730</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></div> <div>Note: Slanted line shows the range of the rated load current.</div>	Load Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	0.184	0.163	0.174	20	1.380	0.795	0.722	40	2.565	1.359	1.216	60	3.790	1.932	1.727	80	5.070	2.555	2.243	100	6.400	3.196	2.800	120	7.790	3.860	3.375	132	8.660	4.260	3.730	--	-	-	-	--	-	-	-	--	-	-	-	2.Values				
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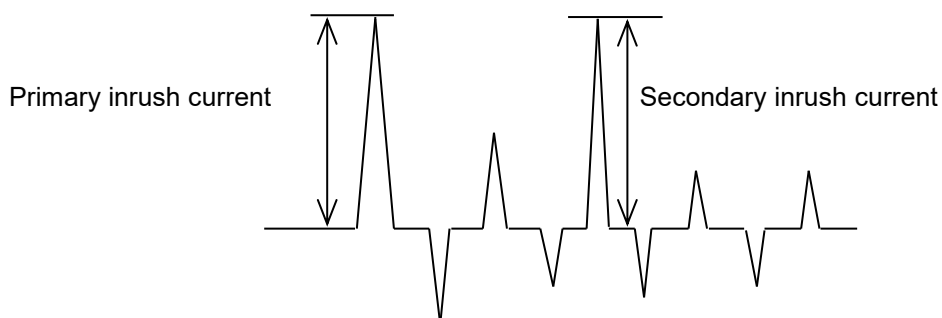
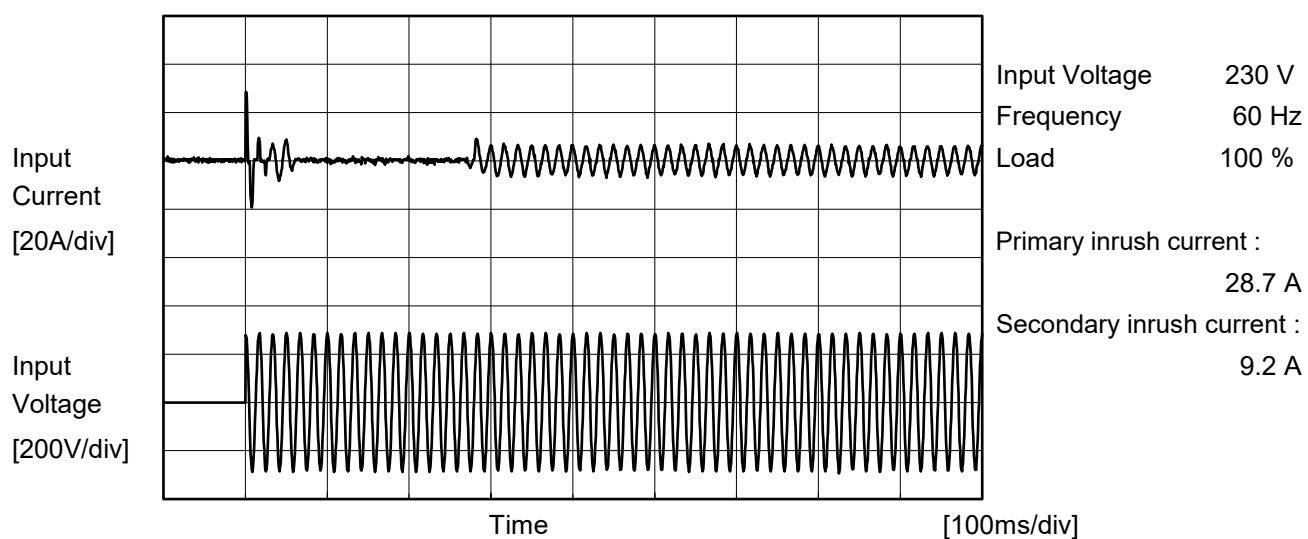
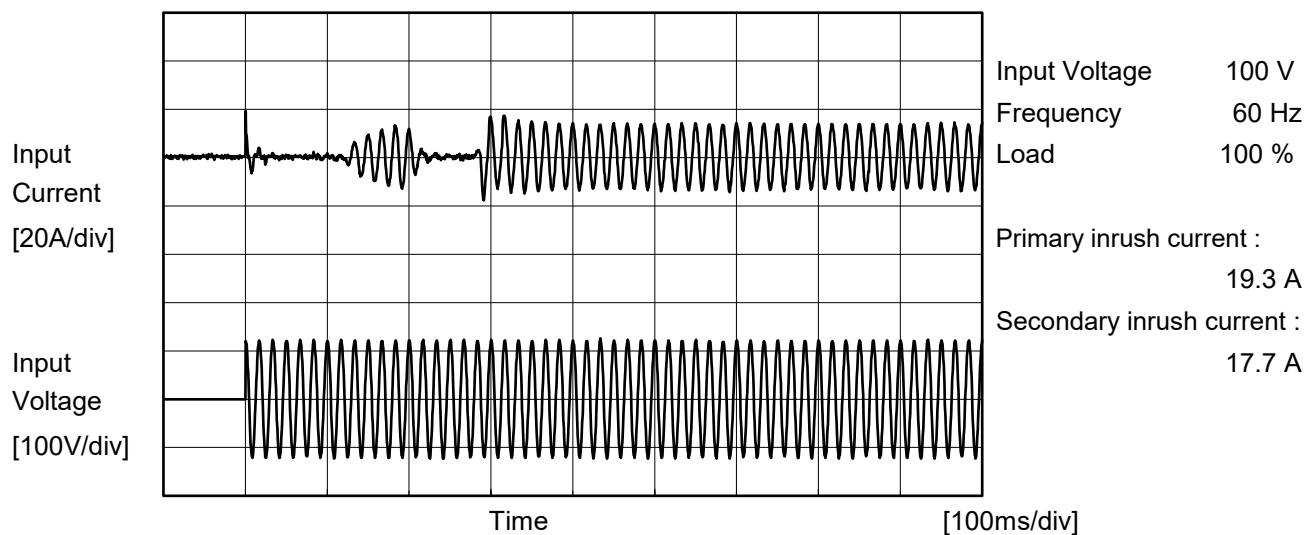
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BC-12154

COSEL

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Item	Inrush Current	
Object	_____	





Model		PDA600F-5	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure C-1	Both phases	0.16	0.43	0.45	Operation
		One of phases	0.31	0.81	0.85	Stand by
IEC62368-1	Figure C-2	Both phases	0.16	0.42	0.45	Operation
		One of phases	0.31	0.80	0.84	Stand by
	Figure C-3	Both phases	0.16	0.42	0.44	Operation
		One of phases	0.31	0.79	0.83	Stand by

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

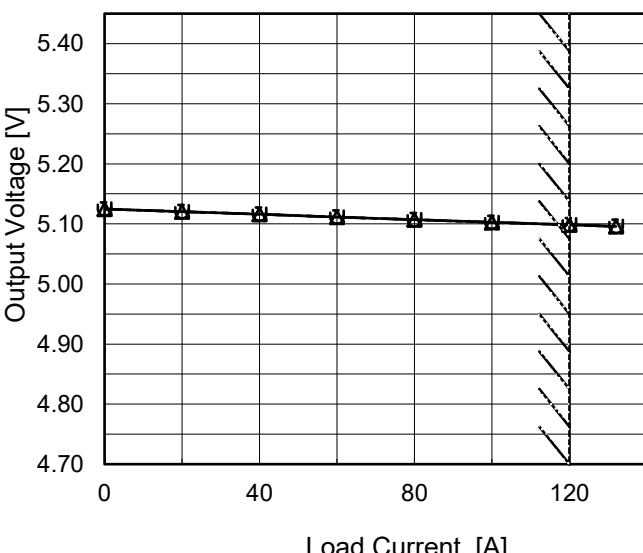
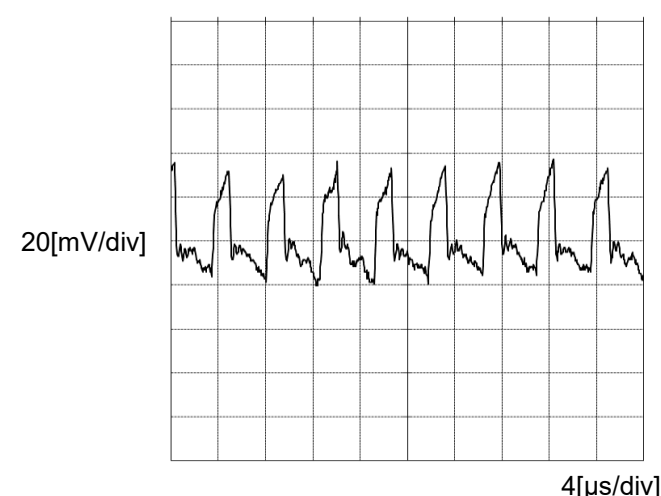
2.Condition

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

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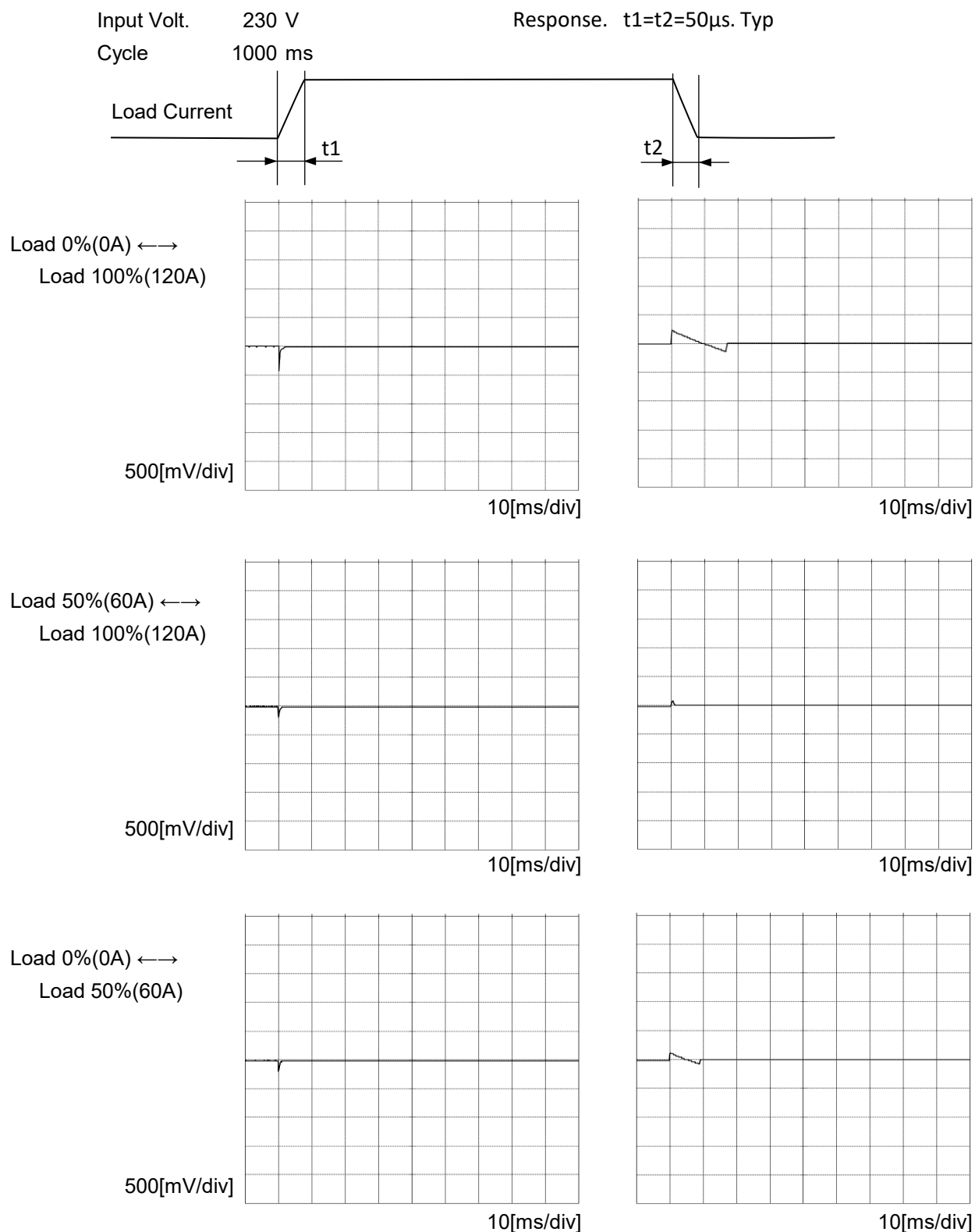
Model		PDA600F-5	Temperature		25°C																																
Item		Line Regulation	Testing Circuitry		Figure A																																
Object		+5V120A																																			
1.Graph			2.Values																																		
<div><div><div><div><div></div><div></div></div><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">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>85</td><td>5.108</td><td>5.098</td></tr><tr><td>90</td><td>5.109</td><td>5.098</td></tr><tr><td>100</td><td>5.109</td><td>5.098</td></tr><tr><td>120</td><td>5.109</td><td>5.098</td></tr><tr><td>200</td><td>5.109</td><td>5.098</td></tr><tr><td>230</td><td>5.109</td><td>5.098</td></tr><tr><td>264</td><td>5.109</td><td>5.098</td></tr><tr><td>280</td><td>5.109</td><td>5.098</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]	Output Voltage [V]		Load 50%	Load 100%	85	5.108	5.098	90	5.109	5.098	100	5.109	5.098	120	5.109	5.098	200	5.109	5.098	230	5.109	5.098	264	5.109	5.098	280	5.109	5.098	--	-	-			
Input Voltage [V]	Output Voltage [V]																																				
	Load 50%	Load 100%																																			
85	5.108	5.098																																			
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100	5.109	5.098																																			
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230	5.109	5.098																																			
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280	5.109	5.098																																			
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COSEL

Model	PDA600F-5	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
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>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>5.125</td><td>5.125</td><td>5.125</td></tr><tr><td>20</td><td>5.120</td><td>5.120</td><td>5.120</td></tr><tr><td>40</td><td>5.116</td><td>5.116</td><td>5.116</td></tr><tr><td>60</td><td>5.111</td><td>5.112</td><td>5.111</td></tr><tr><td>80</td><td>5.107</td><td>5.107</td><td>5.107</td></tr><tr><td>100</td><td>5.103</td><td>5.103</td><td>5.103</td></tr><tr><td>120</td><td>5.098</td><td>5.098</td><td>5.098</td></tr><tr><td>132</td><td>5.096</td><td>5.096</td><td>5.096</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	5.125	5.125	5.125	20	5.120	5.120	5.120	40	5.116	5.116	5.116	60	5.111	5.112	5.111	80	5.107	5.107	5.107	100	5.103	5.103	5.103	120	5.098	5.098	5.098	132	5.096	5.096	5.096	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	5.125	5.125	5.125																																																			
20	5.120	5.120	5.120																																																			
40	5.116	5.116	5.116																																																			
60	5.111	5.112	5.111																																																			
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120	5.098	5.098	5.098																																																			
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+5V120A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>230V</div></div><div><div>Load</div><div>100%</div></div></div> 																																																						

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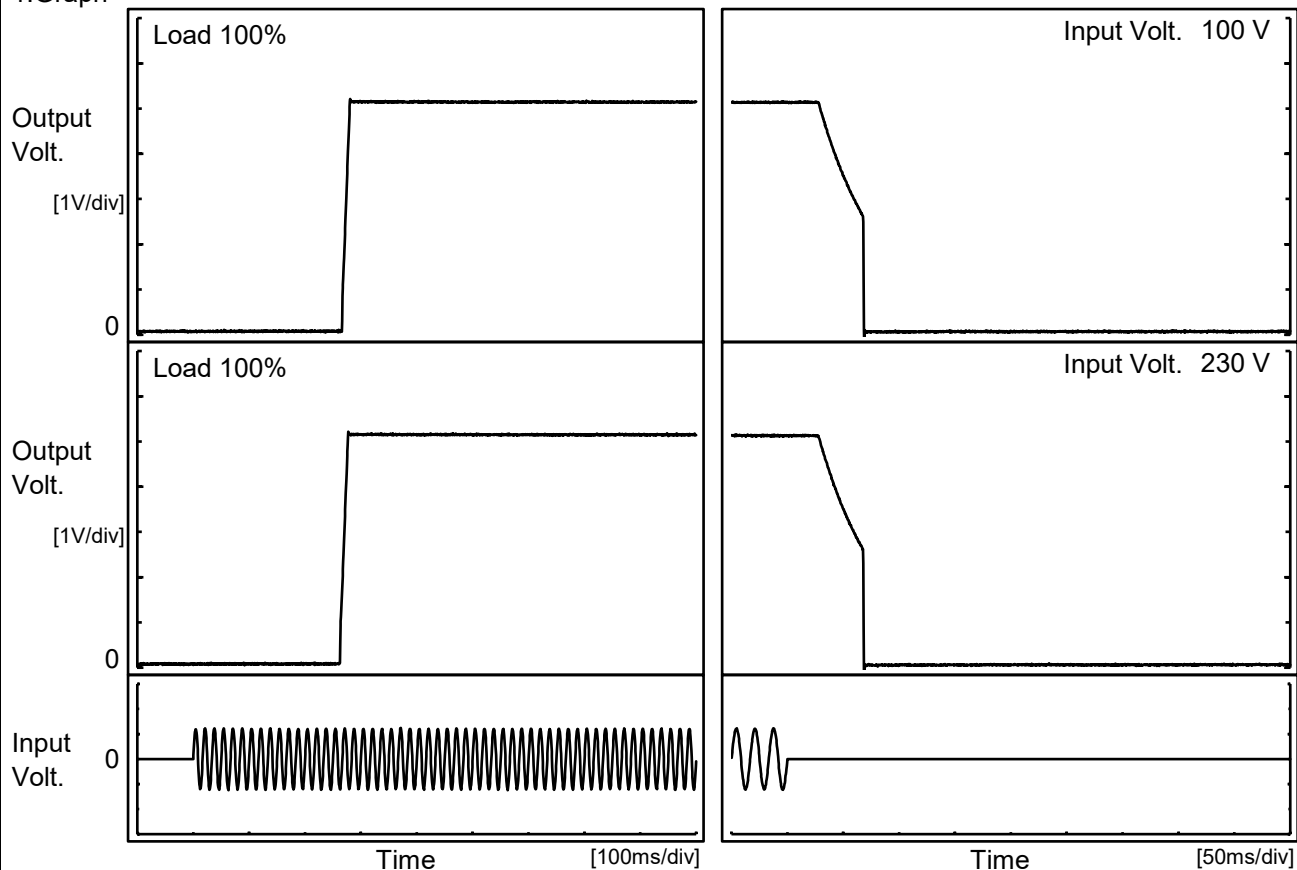
Model	PDA600F-5	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+5V120A	



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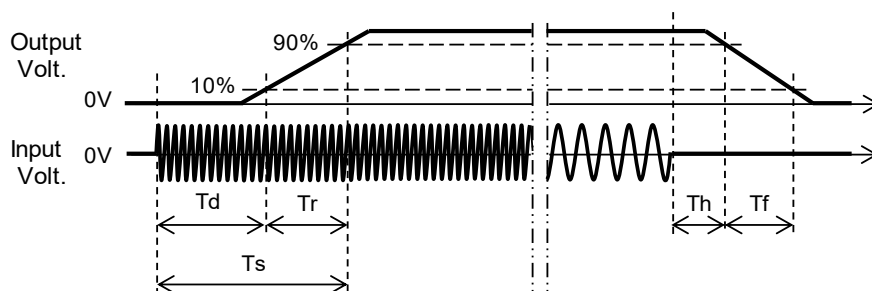
Model	PDA600F-5	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+5V120A	

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		267.0	12.0	279.0	35.0	33.3
230 V		263.0	12.5	275.5	35.0	33.3



Model		PDA600F-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></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>85</td><td>71</td><td>32</td></tr><tr><td>90</td><td>71</td><td>32</td></tr><tr><td>100</td><td>71</td><td>32</td></tr><tr><td>120</td><td>71</td><td>32</td></tr><tr><td>200</td><td>71</td><td>32</td></tr><tr><td>230</td><td>71</td><td>32</td></tr><tr><td>264</td><td>71</td><td>32</td></tr><tr><td>280</td><td>72</td><td>33</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <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>			Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	71	32	90	71	32	100	71	32	120	71	32	200	71	32	230	71	32	264	71	32	280	72	33	--	-	-			
Input Voltage [V]	Hold-Up Time [ms]																																				
	Load 50%	Load 100%																																			
85	71	32																																			
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200	71	32																																			
230	71	32																																			
264	71	32																																			
280	72	33																																			
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Model		PDA600F-5	Temperature 25°C Testing Circuitry Figure A																																																		
Item		Instantaneous Interruption Compensation																																																			
Object		+5V120A																																																			
1.Graph		<div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 200V</div><div>-·-○-·- Input Volt. 230V</div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <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">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>167</td><td>230</td><td>230</td></tr><tr><td>40</td><td>56</td><td>111</td><td>111</td></tr><tr><td>60</td><td>27</td><td>62</td><td>70</td></tr><tr><td>80</td><td>18</td><td>49</td><td>49</td></tr><tr><td>100</td><td>17</td><td>36</td><td>36</td></tr><tr><td>120</td><td>17</td><td>28</td><td>28</td></tr><tr><td>132</td><td>17</td><td>23</td><td>23</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	167	230	230	40	56	111	111	60	27	62	70	80	18	49	49	100	17	36	36	120	17	28	28	132	17	23	23	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																				
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																		
0	-	-	-																																																		
20	167	230	230																																																		
40	56	111	111																																																		
60	27	62	70																																																		
80	18	49	49																																																		
100	17	36	36																																																		
120	17	28	28																																																		
132	17	23	23																																																		
--	-	-	-																																																		
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--	-	-	-																																																		
Note: Slanted line shows the range of the rated load current.																																																					

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BC-12154

Model		PDA600F-5	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 3.50V 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>135.68</td><td>135.63</td></tr><tr><td>4.50</td><td>136.12</td><td>136.18</td></tr><tr><td>4.00</td><td>137.36</td><td>137.41</td></tr><tr><td>3.50</td><td>138.66</td><td>138.68</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><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	135.68	135.63	4.50	136.12	136.18	4.00	137.36	137.41	3.50	138.66	138.68	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																																
	Input Volt. 100[V]	Input Volt. 230[V]																																															
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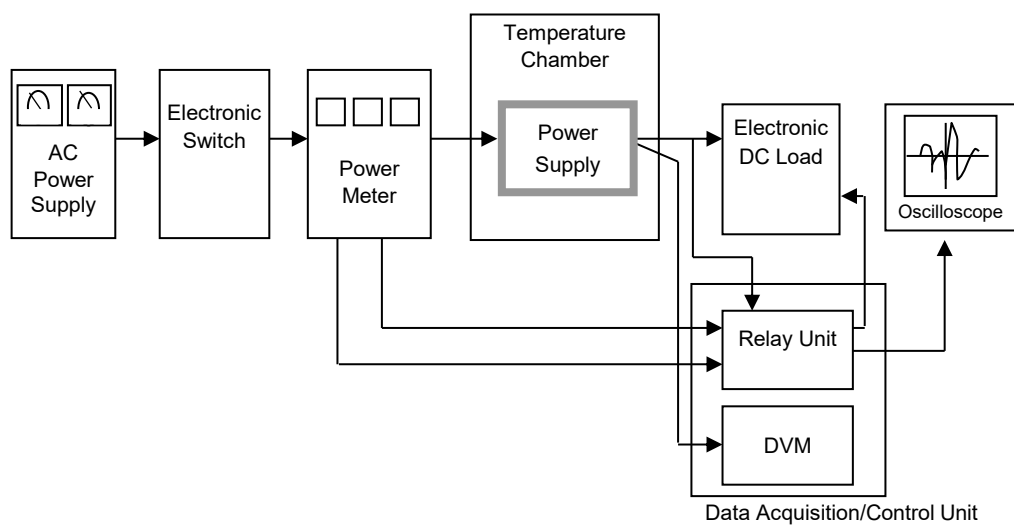


Figure A

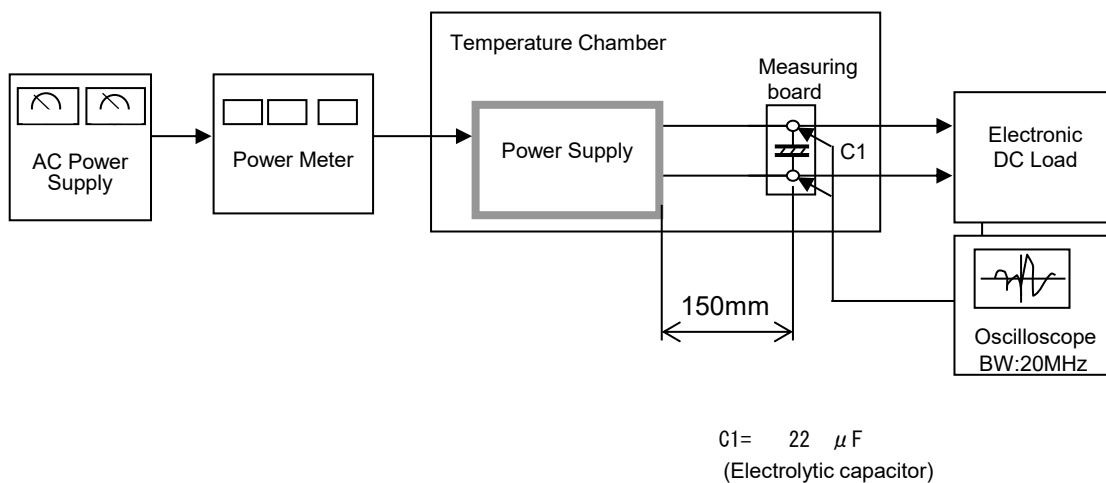


Figure B

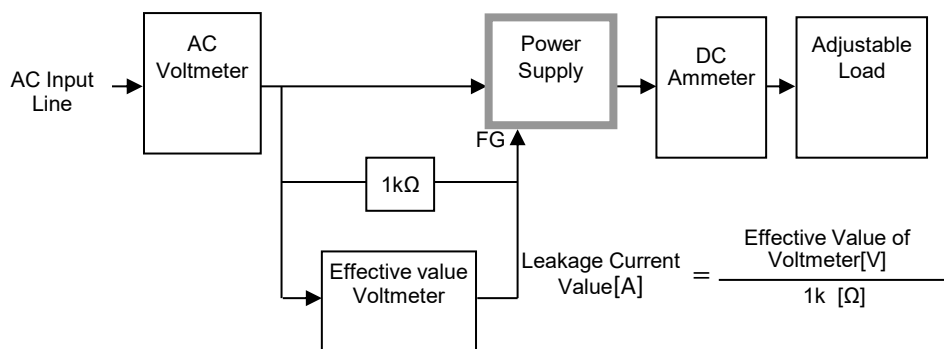


Figure C-1 (DEN-AN)

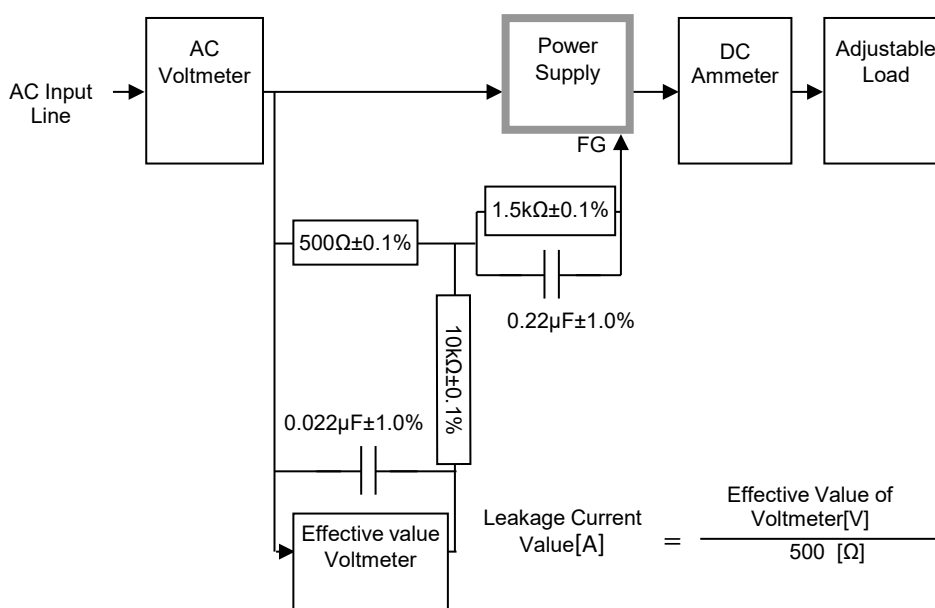


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

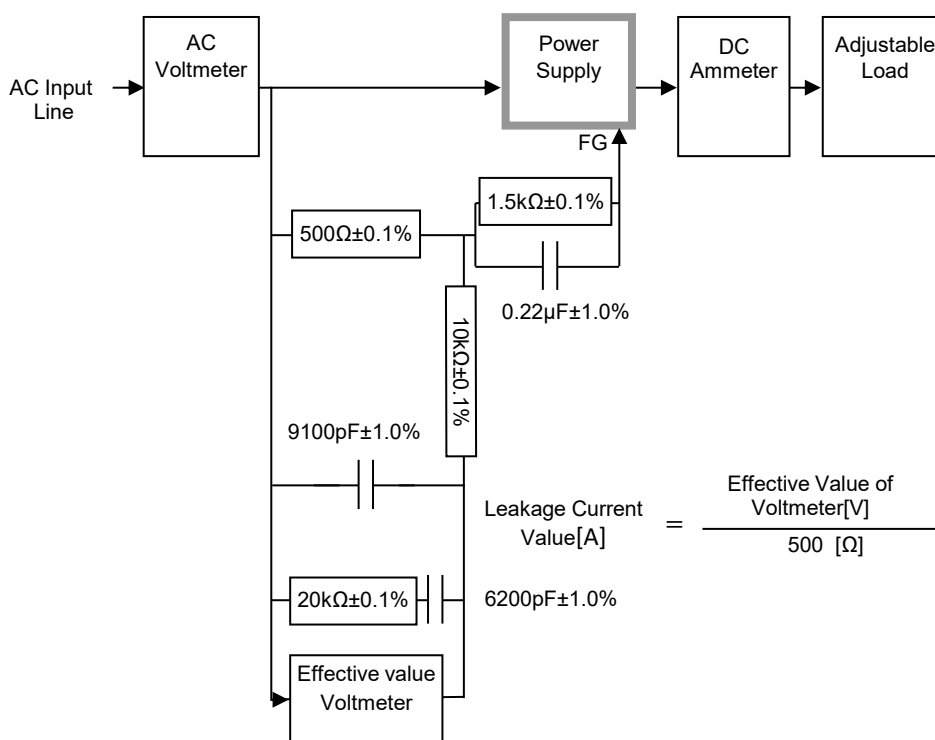


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)