

TEST DATA OF PDA600F-3R3

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-3R3	Temperature 25°C Testing Circuitry Figure A
Item	Input Current (by Load Current)	
Object	_____	

1.Graph

—△— Input Volt. 100V

- - □ - - Input Volt. 200V

--○-- Input Volt. 230V

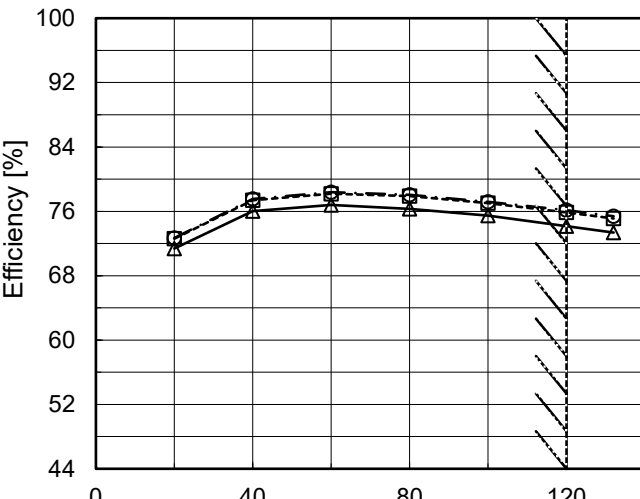
Load Current [A]	Input Voltage 100[V] [A]	Input Voltage 200[V] [A]	Input Voltage 230[V] [A]
0	0.187	0.165	0.177
20	0.990	0.608	0.557
40	1.824	0.992	0.917
60	2.669	1.411	1.261
80	3.550	1.817	1.638
100	4.480	2.272	2.006
120	5.450	2.744	2.407
132	6.050	3.037	2.662
--	-	-	-
--	-	-	-
--	-	-	-

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

2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	0.187	0.165	0.177
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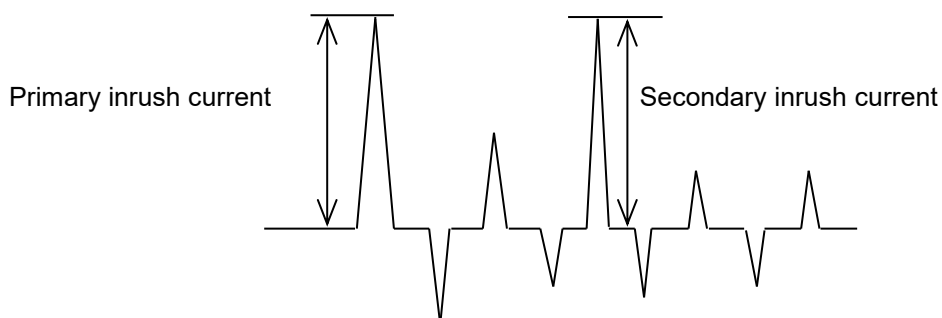
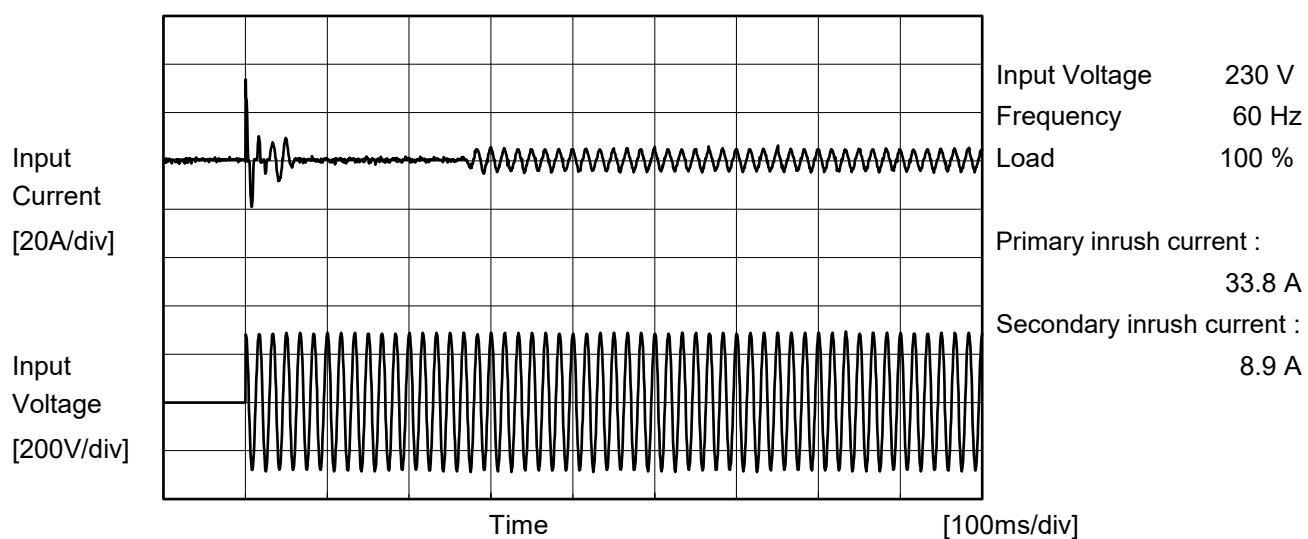
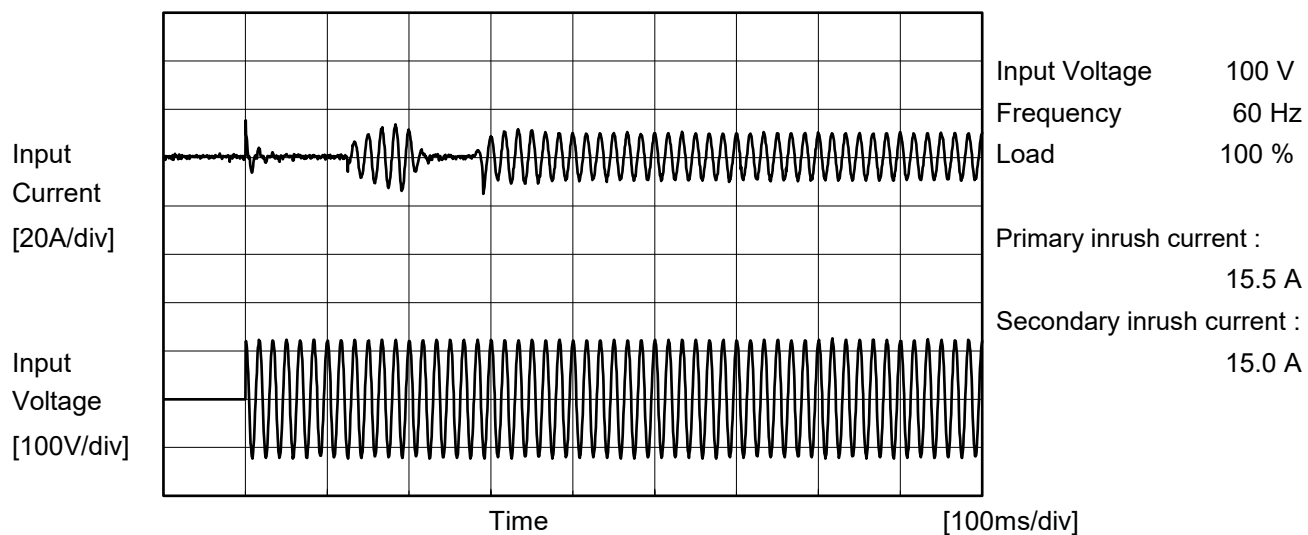
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Model	PDA600F-3R3	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PDA600F-3R3	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

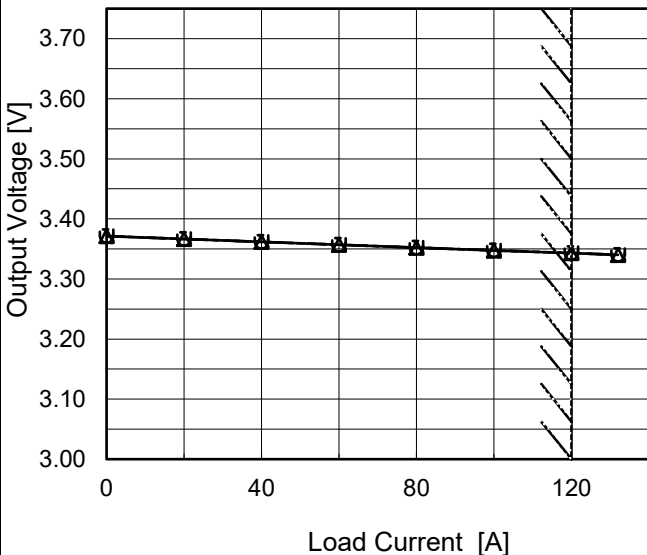
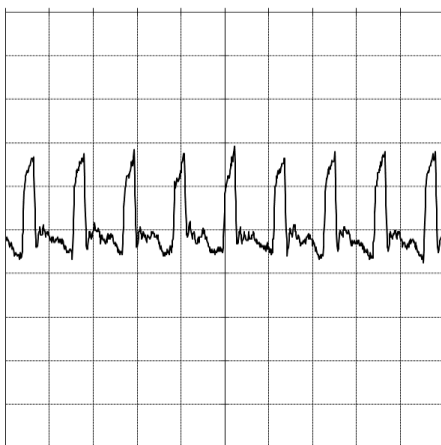
The value for "One of phases" is the reference value only.

2.Condition

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

Model		PDA600F-3R3	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+3.3V120A			
1.Graph			2.Values		
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Model	PDA600F-3R3	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+3.3V120A																																																					
1.Graph		2.Values																																																				
<div><div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div><div></div><p>Note: Slanted line shows the range of the rated load current.</p></div>		<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>3.371</td><td>3.371</td><td>3.371</td></tr><tr><td>20</td><td>3.367</td><td>3.367</td><td>3.367</td></tr><tr><td>40</td><td>3.362</td><td>3.362</td><td>3.362</td></tr><tr><td>60</td><td>3.357</td><td>3.357</td><td>3.357</td></tr><tr><td>80</td><td>3.352</td><td>3.352</td><td>3.352</td></tr><tr><td>100</td><td>3.348</td><td>3.348</td><td>3.348</td></tr><tr><td>120</td><td>3.343</td><td>3.343</td><td>3.343</td></tr><tr><td>132</td><td>3.340</td><td>3.340</td><td>3.340</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	3.371	3.371	3.371	20	3.367	3.367	3.367	40	3.362	3.362	3.362	60	3.357	3.357	3.357	80	3.352	3.352	3.352	100	3.348	3.348	3.348	120	3.343	3.343	3.343	132	3.340	3.340	3.340	--	--	--	--	--	--	--	--	--	--	--	--
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+3.3V120A	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><div>20[mV/div]</div><div></div><div>4[μs/div]</div></div></div>																																																						

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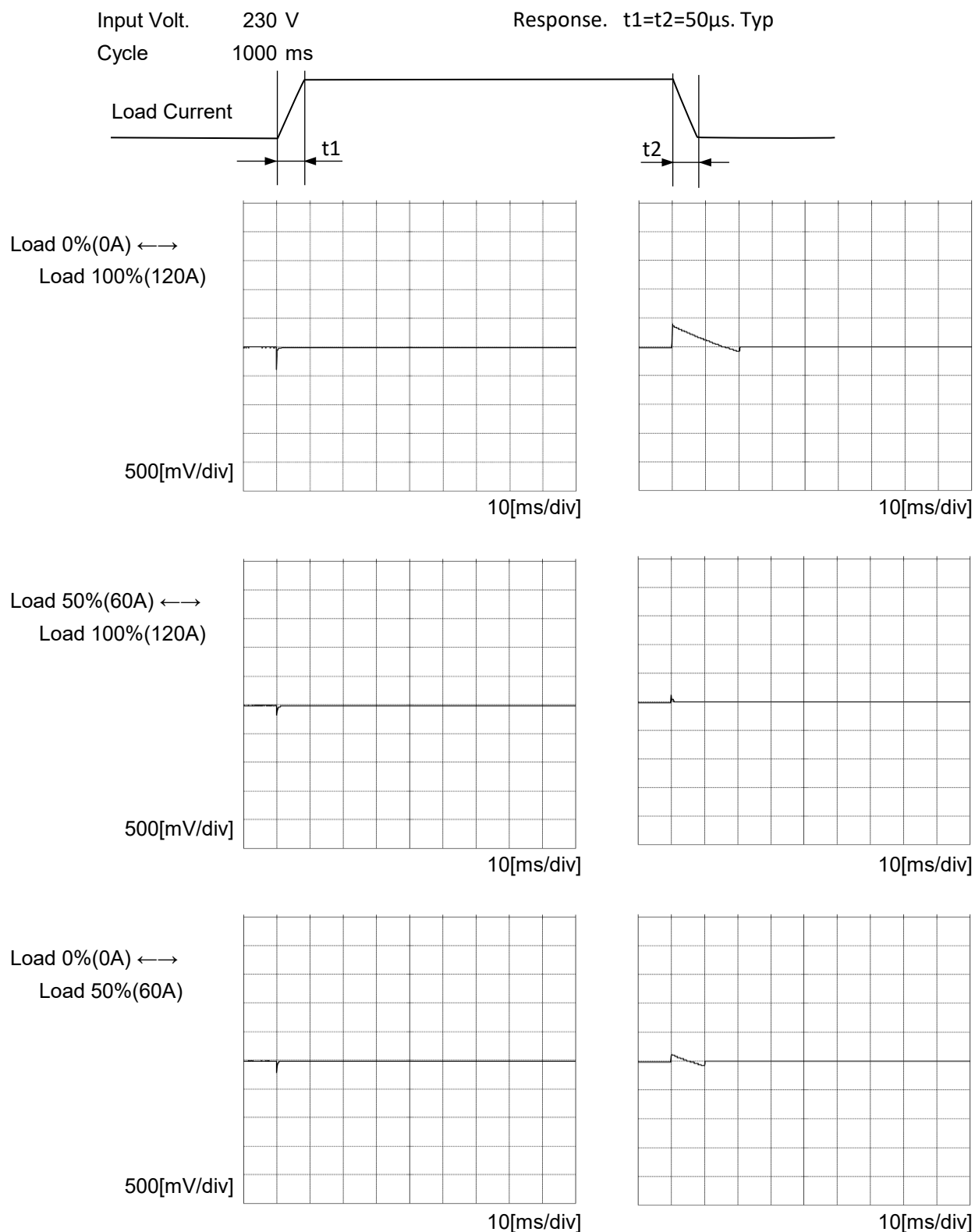
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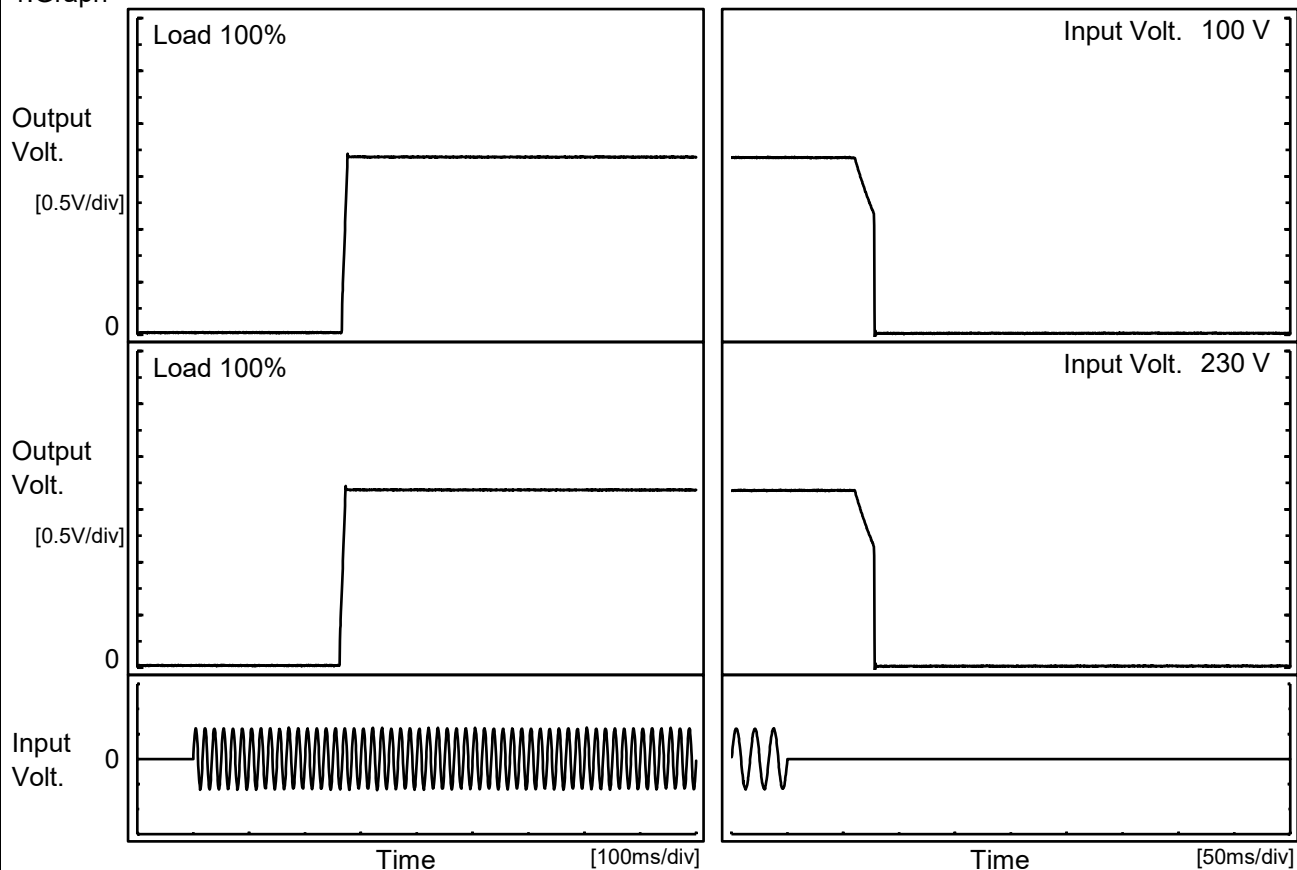
Model	PDA600F-3R3	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+3.3V120A	



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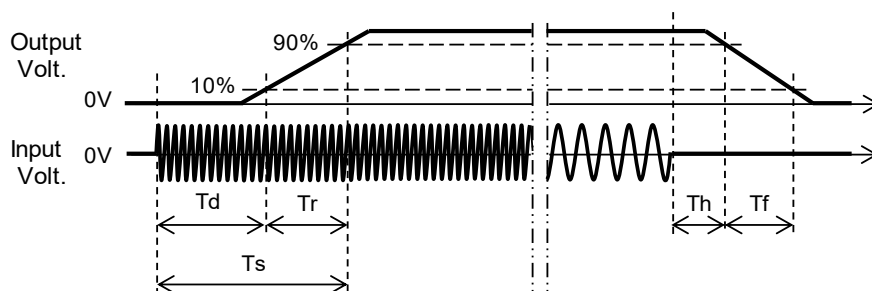
Model	PDA600F-3R3	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+3.3V120A	

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		266.5	8.5	275.0	65.3	12.8
230 V		262.5	9.0	271.5	65.5	12.5



Model		PDA600F-3R3	Temperature		25°C																																
Item		Hold-Up Time	Testing Circuitry		Figure A																																
Object		+3.3V120A																																			
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> <div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div>50100150200250300</div><div>Hold-Up Time [ms]</div><div>Input Voltage [V]</div></div> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note: Slanted line shows the range of the rated input voltage.</div></div>			<table><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><tr><td>85</td><td>140</td><td>62</td></tr><tr><td>90</td><td>140</td><td>62</td></tr><tr><td>100</td><td>140</td><td>62</td></tr><tr><td>120</td><td>140</td><td>62</td></tr><tr><td>200</td><td>140</td><td>62</td></tr><tr><td>230</td><td>140</td><td>62</td></tr><tr><td>264</td><td>140</td><td>61</td></tr><tr><td>280</td><td>143</td><td>60</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>			Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	140	62	90	140	62	100	140	62	120	140	62	200	140	62	230	140	62	264	140	61	280	143	60	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																				
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280	143	60																																			
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Temperature 25°C
Testing Circuitry Figure A



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

Model		PDA600F-3R3		Temperature 25°C																																													
Item		Overcurrent Protection		Testing Circuitry Figure A																																													
Object		+3.3V120A																																															
1.Graph				2.Values																																													
<div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 2.31V 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>3.135</td><td>136.89</td><td>136.90</td></tr><tr><td>2.970</td><td>136.52</td><td>136.54</td></tr><tr><td>2.640</td><td>138.42</td><td>138.45</td></tr><tr><td>2.310</td><td>140.07</td><td>140.07</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]	3.135	136.89	136.90	2.970	136.52	136.54	2.640	138.42	138.45	2.310	140.07	140.07	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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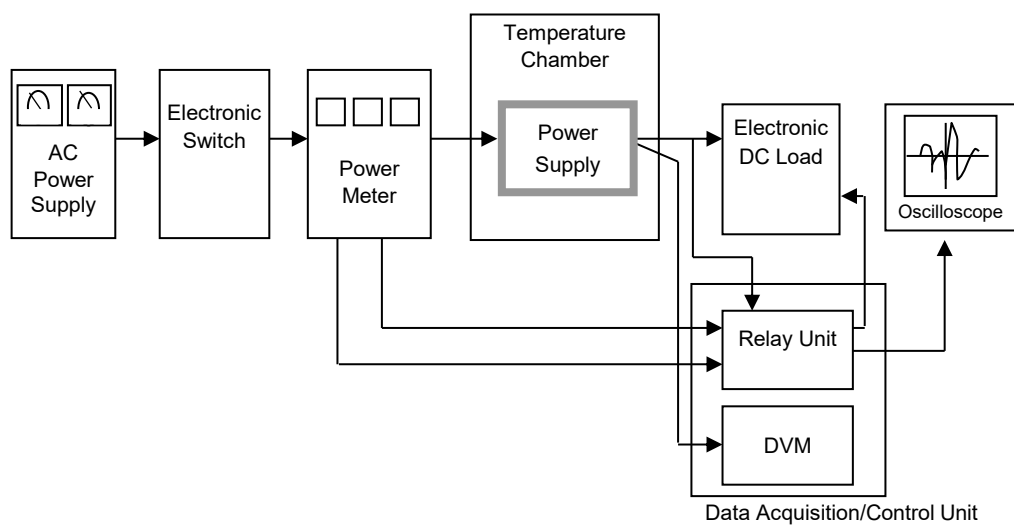


Figure A

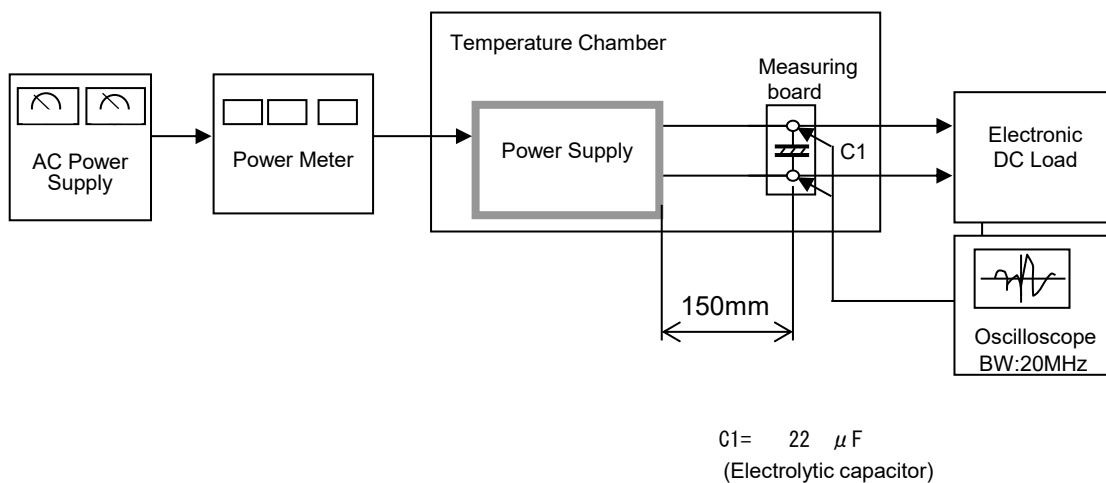


Figure B

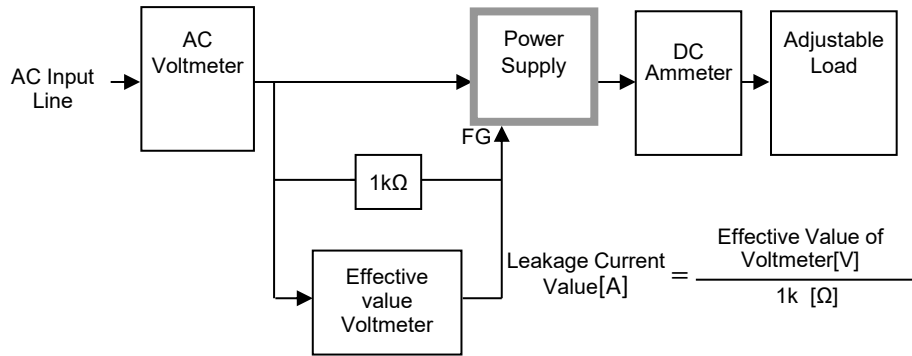


Figure C-1 (DEN-AN)

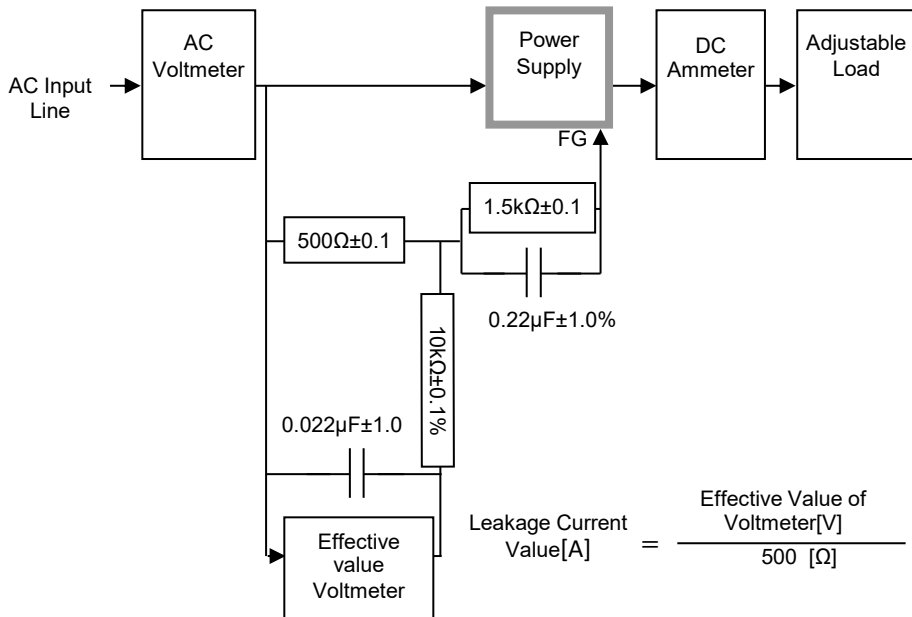


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

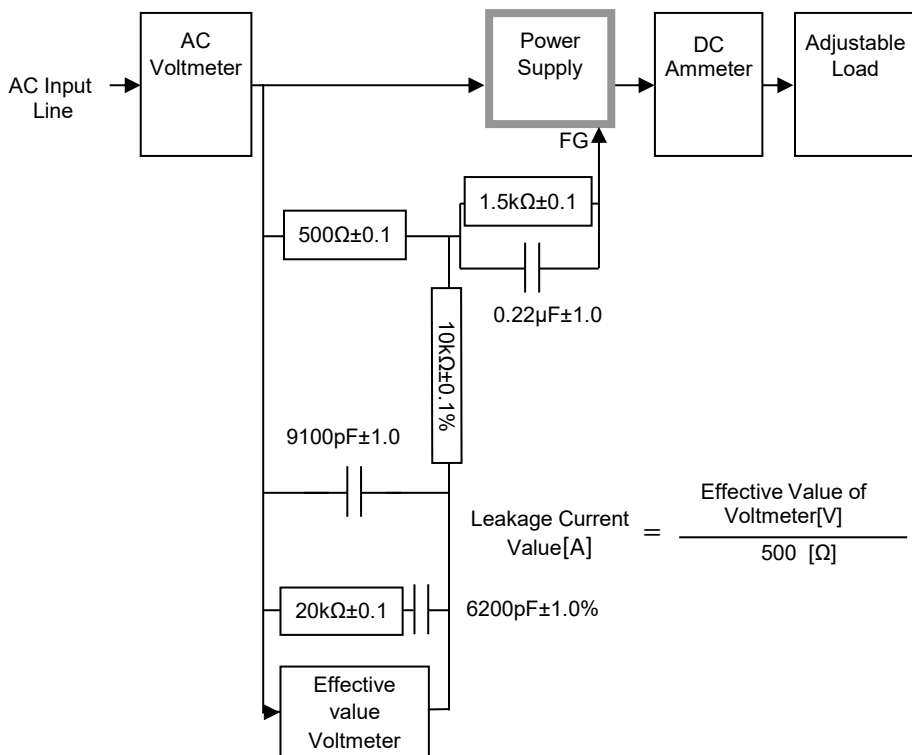


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)