

TEST DATA OF PDA300F-3R3

Regulated DC Power Supply
November 28, 2025

Approved by : Yoshiaki Shimizu
Design Manager

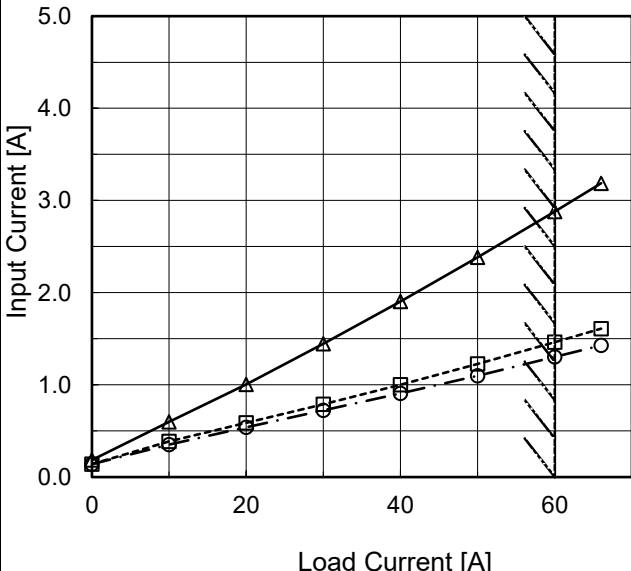
Prepared by : Fangcheng Zhong
Design Engineer

COSEL CO.,LTD.

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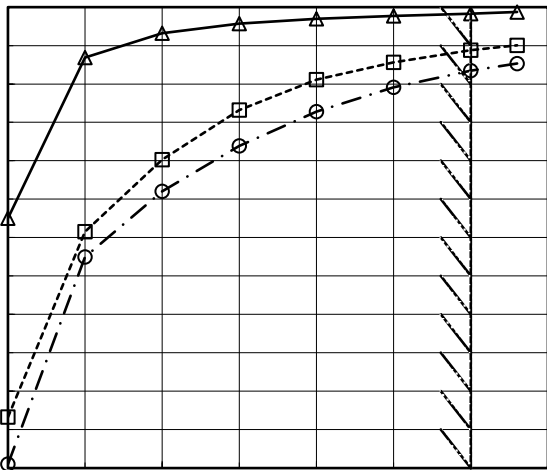
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Model		PDA300F-3R3		Temperature 25°C																																																				
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input 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>0.141</td><td>0.140</td></tr><tr><td>10</td><td>0.599</td><td>0.388</td><td>0.353</td></tr><tr><td>20</td><td>1.005</td><td>0.589</td><td>0.538</td></tr><tr><td>30</td><td>1.447</td><td>0.790</td><td>0.725</td></tr><tr><td>40</td><td>1.905</td><td>1.001</td><td>0.909</td></tr><tr><td>50</td><td>2.384</td><td>1.227</td><td>1.100</td></tr><tr><td>60</td><td>2.880</td><td>1.462</td><td>1.302</td></tr><tr><td>66</td><td>3.187</td><td>1.610</td><td>1.428</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	0.141	0.140	10	0.599	0.388	0.353	20	1.005	0.589	0.538	30	1.447	0.790	0.725	40	1.905	1.001	0.909	50	2.384	1.227	1.100	60	2.880	1.462	1.302	66	3.187	1.610	1.428	--	-	-	-	--	-	-	-	--	-	-	-
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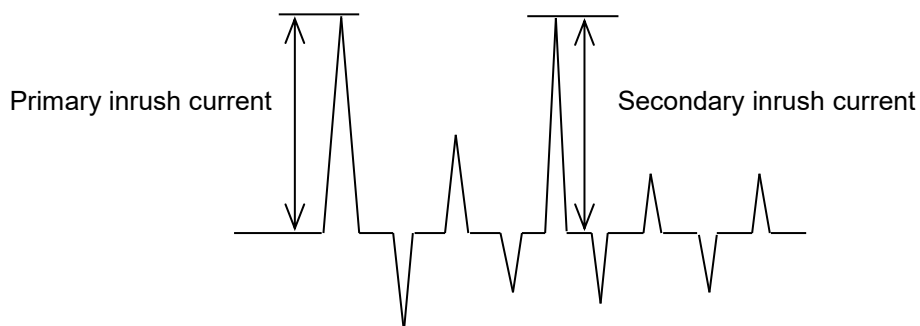
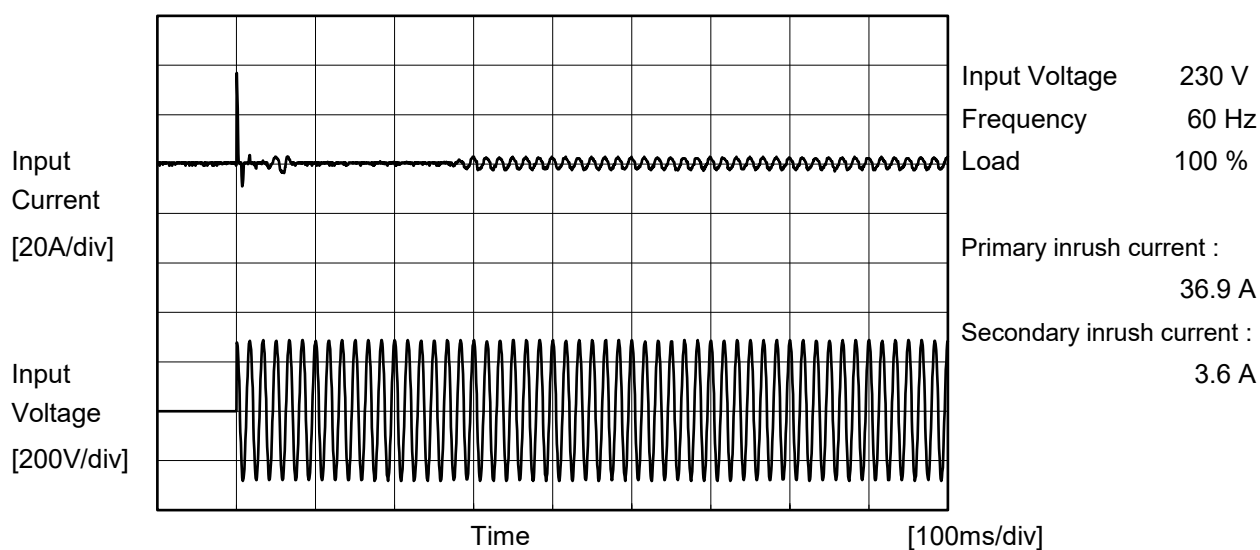
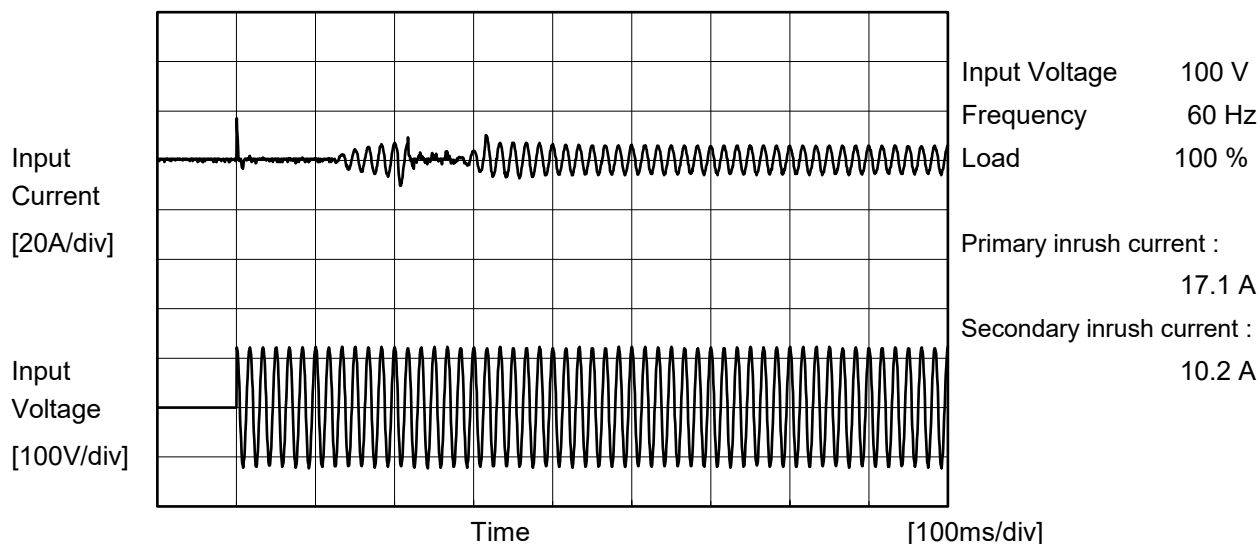
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BC-12179

Model		PDA300F-3R3	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	



Model		PDA300F-3R3	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

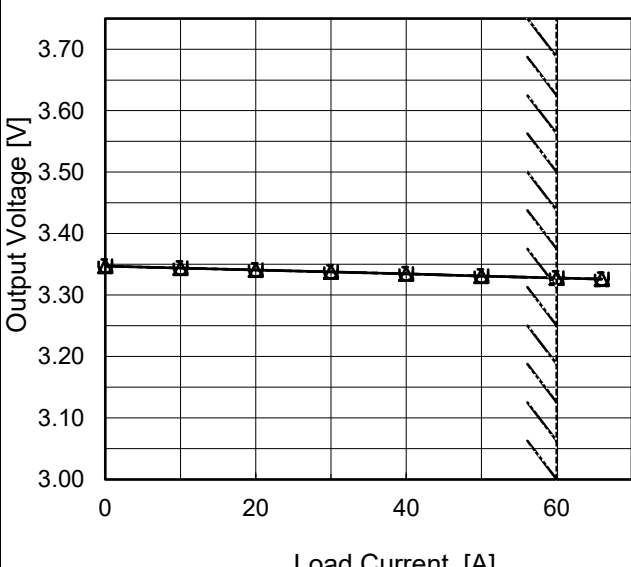
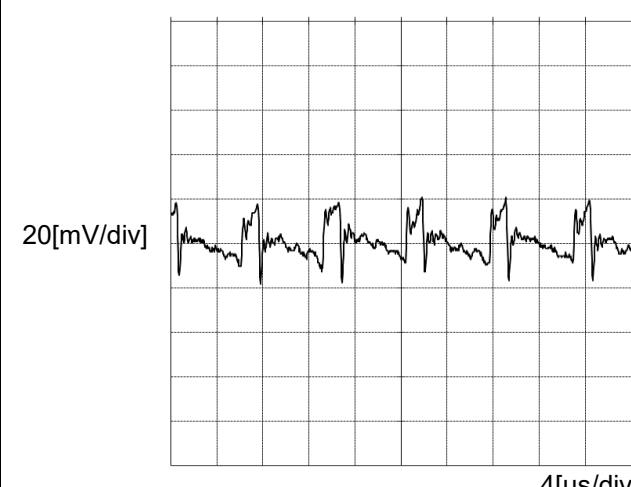
Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure C-1	Both phases	0.19	0.38	0.37	Operation
		One of phases	0.29	0.68	0.71	Stand by
IEC62368-1	Figure C-2	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.26	0.67	0.70	Stand by
	Figure C-3	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.26	0.66	0.69	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	PDA300F-3R3																																
Item	Line Regulation	Temperature	25°C																														
Object	+3.3V60A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>85</td><td>3.337</td><td>3.328</td></tr><tr><td>90</td><td>3.337</td><td>3.328</td></tr><tr><td>100</td><td>3.337</td><td>3.328</td></tr><tr><td>120</td><td>3.337</td><td>3.328</td></tr><tr><td>200</td><td>3.337</td><td>3.328</td></tr><tr><td>230</td><td>3.337</td><td>3.328</td></tr><tr><td>264</td><td>3.337</td><td>3.328</td></tr><tr><td>280</td><td>3.338</td><td>3.328</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	85	3.337	3.328	90	3.337	3.328	100	3.337	3.328	120	3.337	3.328	200	3.337	3.328	230	3.337	3.328	264	3.337	3.328	280	3.338	3.328	--	-	-		
Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																															
85	3.337	3.328																															
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264	3.337	3.328																															
280	3.338	3.328																															
--	-	-																															
Note: Slanted line shows the range of the rated input voltage.																																	

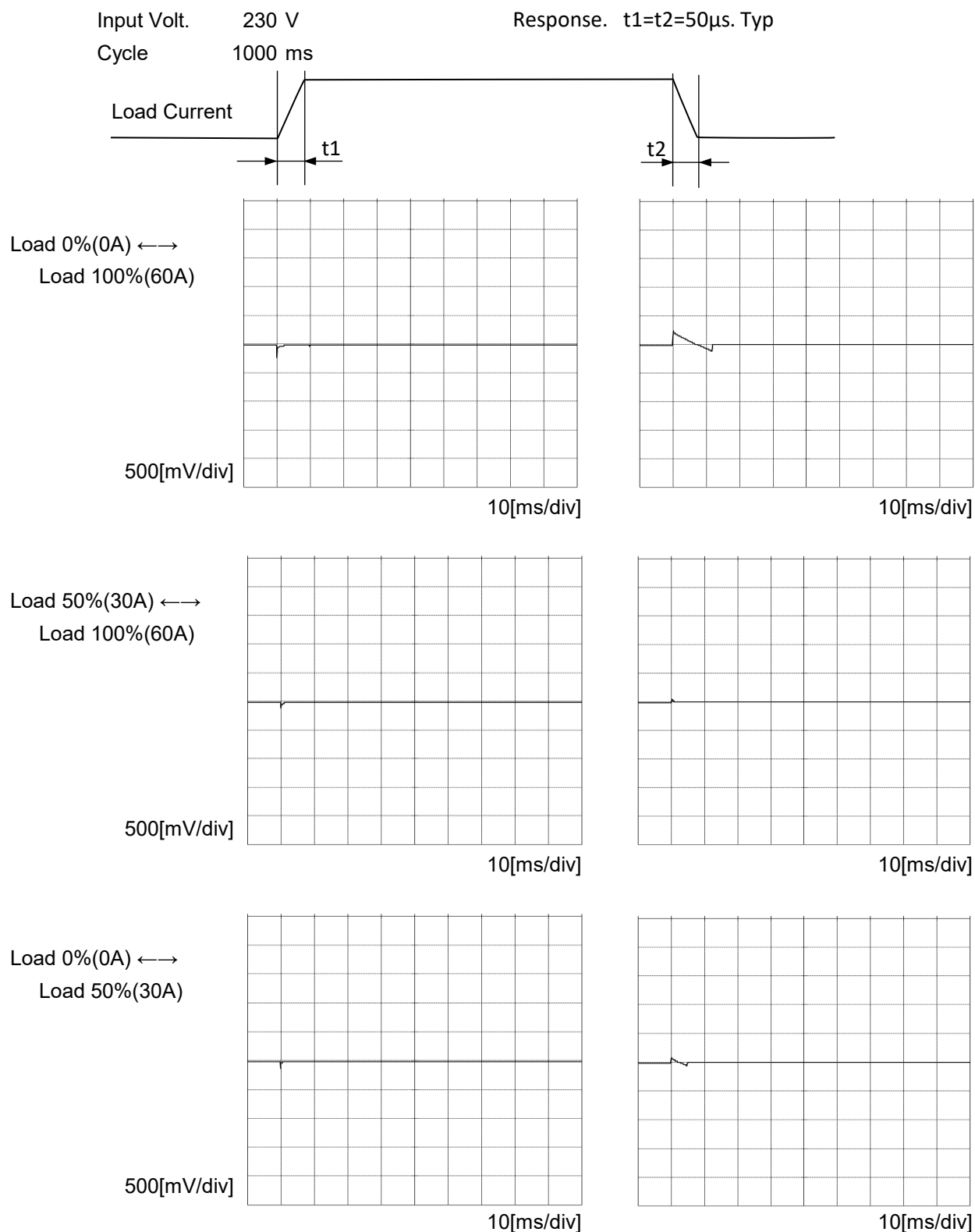
Model	PDA300F-3R3																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+3.3V60A	Testing Circuitry	Figure A																																																			
1.Graph <div><div><div>—△—</div><div>Input Volt.</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">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>3.347</td><td>3.347</td><td>3.347</td></tr><tr><td>10</td><td>3.344</td><td>3.344</td><td>3.344</td></tr><tr><td>20</td><td>3.341</td><td>3.341</td><td>3.341</td></tr><tr><td>30</td><td>3.338</td><td>3.338</td><td>3.338</td></tr><tr><td>40</td><td>3.335</td><td>3.334</td><td>3.334</td></tr><tr><td>50</td><td>3.331</td><td>3.331</td><td>3.331</td></tr><tr><td>60</td><td>3.328</td><td>3.328</td><td>3.328</td></tr><tr><td>66</td><td>3.326</td><td>3.326</td><td>3.326</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	3.347	3.347	3.347	10	3.344	3.344	3.344	20	3.341	3.341	3.341	30	3.338	3.338	3.338	40	3.335	3.334	3.334	50	3.331	3.331	3.331	60	3.328	3.328	3.328	66	3.326	3.326	3.326	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0	3.347	3.347	3.347																																																			
10	3.344	3.344	3.344																																																			
20	3.341	3.341	3.341																																																			
30	3.338	3.338	3.338																																																			
40	3.335	3.334	3.334																																																			
50	3.331	3.331	3.331																																																			
60	3.328	3.328	3.328																																																			
66	3.326	3.326	3.326																																																			
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--	--	--	--																																																			
--	--	--	--																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
Object	+3.3V60A	Testing Circuitry	Figure B																																																			
1.Graph <div><div>Input Voltage</div><div>230V</div><div>Load</div><div>100%</div></div> 																																																						

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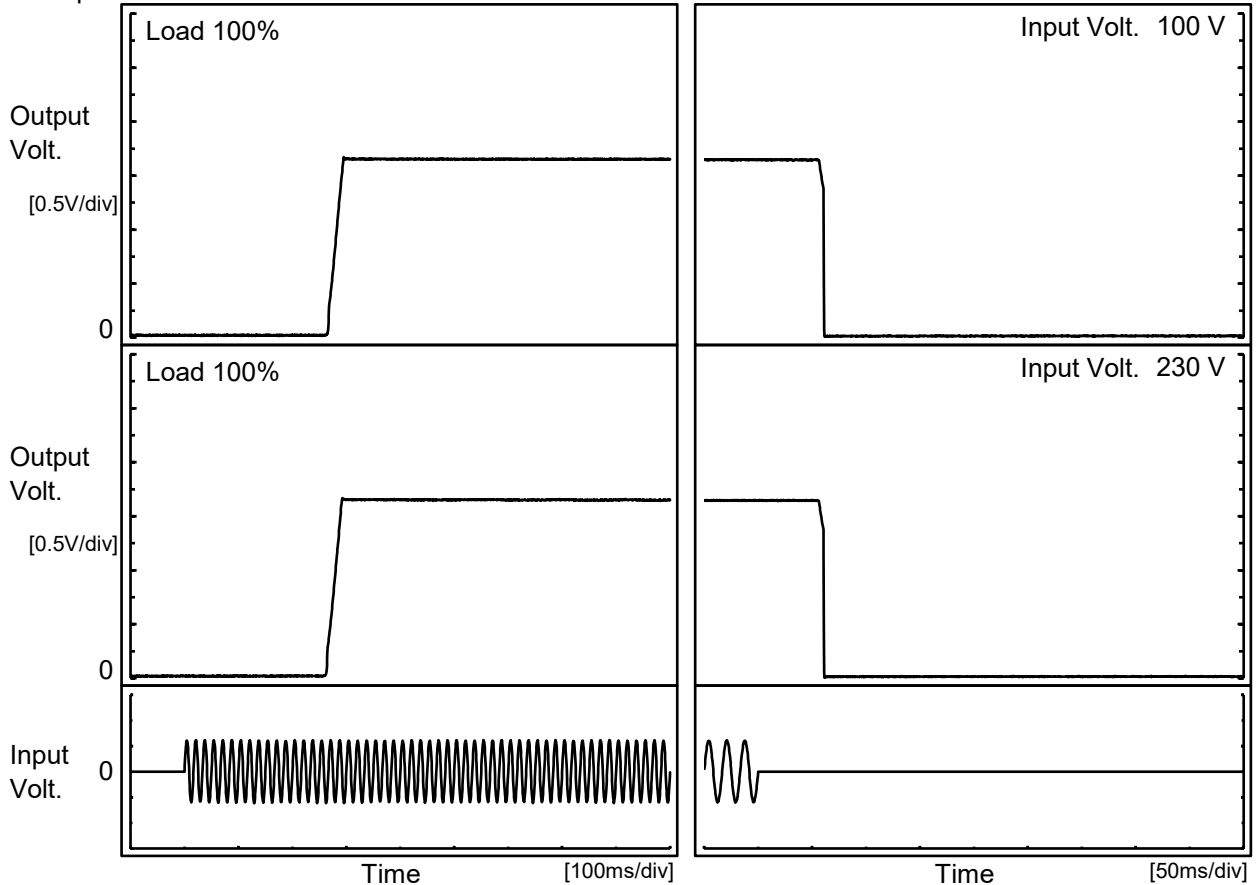
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Model	PDA300F-3R3	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+3.3V60A	



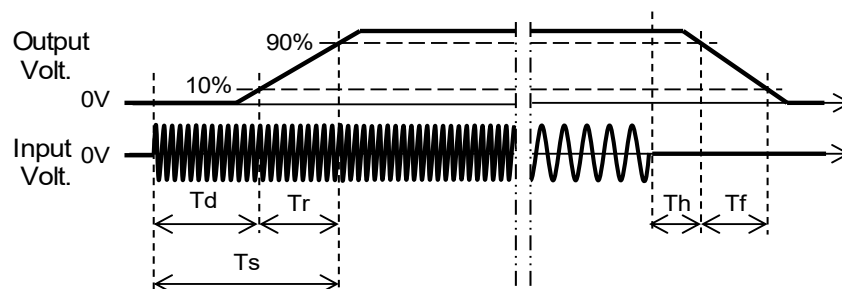
Model	PDA300F-3R3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3.3V60A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		267.5	24.0	291.5	58.5	2.5
230 V		265.0	24.0	289.0	58.5	2.5



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Model		PDA300F-3R3																																																				
Item		Instantaneous Interruption Compensation																																																				
Object		+3.3V60A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>-·-○-·-</div><div>Input Volt. 230V</div></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>		<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>10</td><td>247</td><td>321</td><td>320</td></tr><tr><td>20</td><td>106</td><td>180</td><td>180</td></tr><tr><td>30</td><td>56</td><td>122</td><td>122</td></tr><tr><td>40</td><td>39</td><td>89</td><td>89</td></tr><tr><td>50</td><td>24</td><td>70</td><td>70</td></tr><tr><td>60</td><td>22</td><td>56</td><td>56</td></tr><tr><td>66</td><td>22</td><td>48</td><td>50</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	-	-	-	10	247	321	320	20	106	180	180	30	56	122	122	40	39	89	89	50	24	70	70	60	22	56	56	66	22	48	50	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
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50	24	70	70																																																			
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66	22	48	50																																																			
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Model	PDA300F-3R3																																														
Item	Overcurrent Protection	Temperature	25°C																																												
		Testing Circuitry	Figure A																																												
Object	+3.3V60A																																														
1.Graph		2.Values																																													
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 230V</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>68.16</td><td>68.17</td></tr><tr><td>2.970</td><td>68.40</td><td>68.46</td></tr><tr><td>2.640</td><td>69.00</td><td>69.03</td></tr><tr><td>2.310</td><td>69.54</td><td>69.57</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	68.16	68.17	2.970	68.40	68.46	2.640	69.00	69.03	2.310	69.54	69.57	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																														
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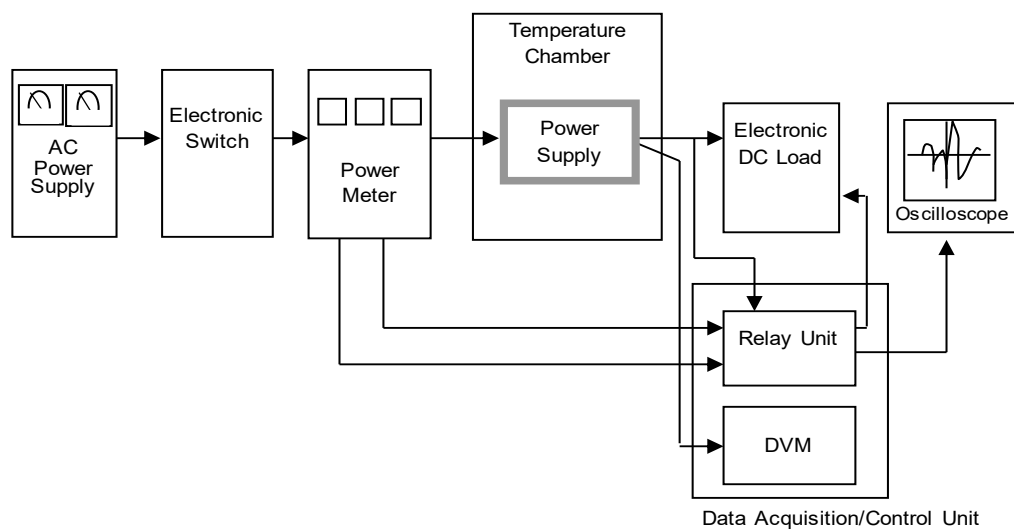


Figure A

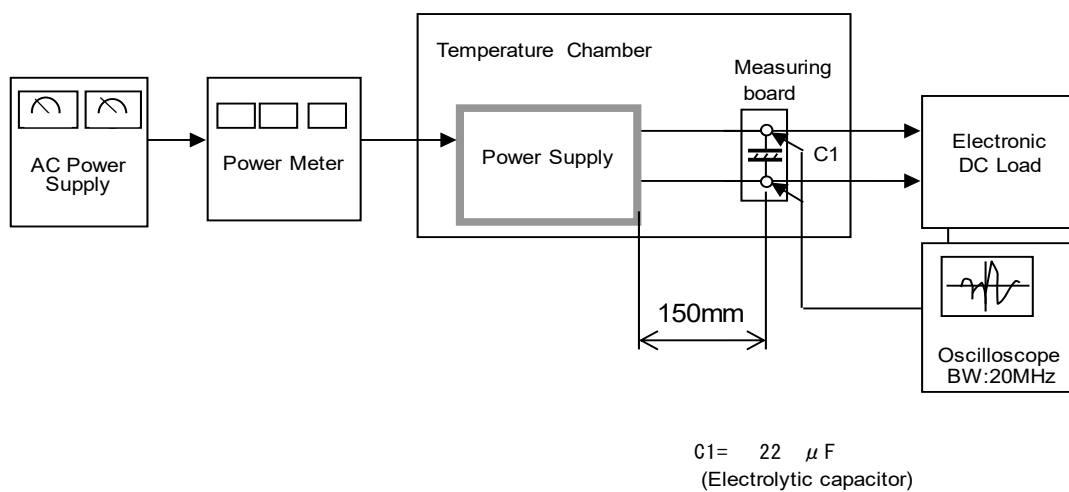


Figure B

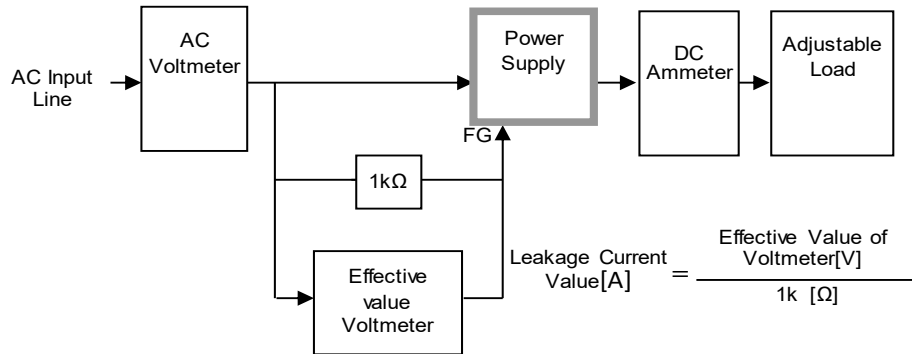


Figure C-1 (DEN-AN)

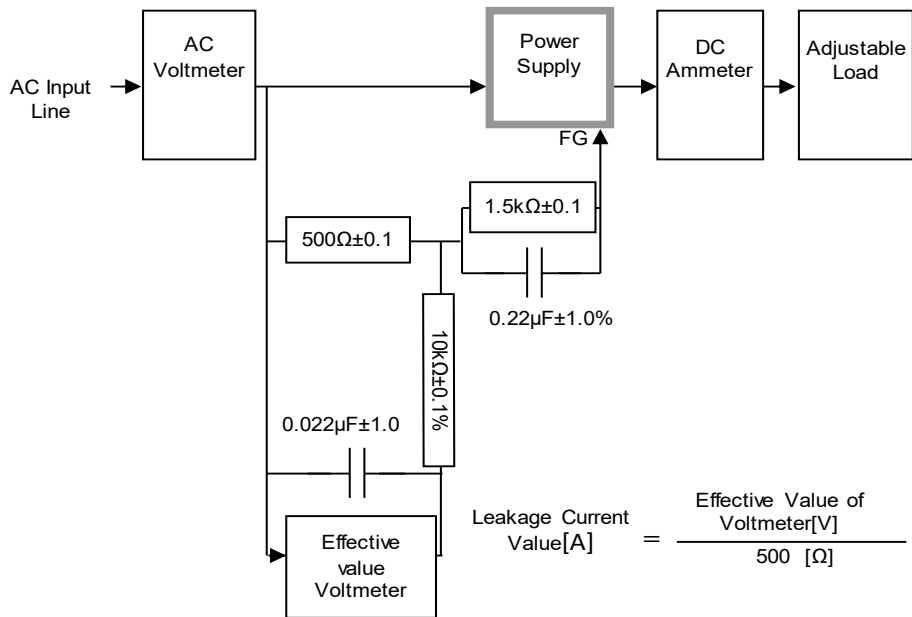


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

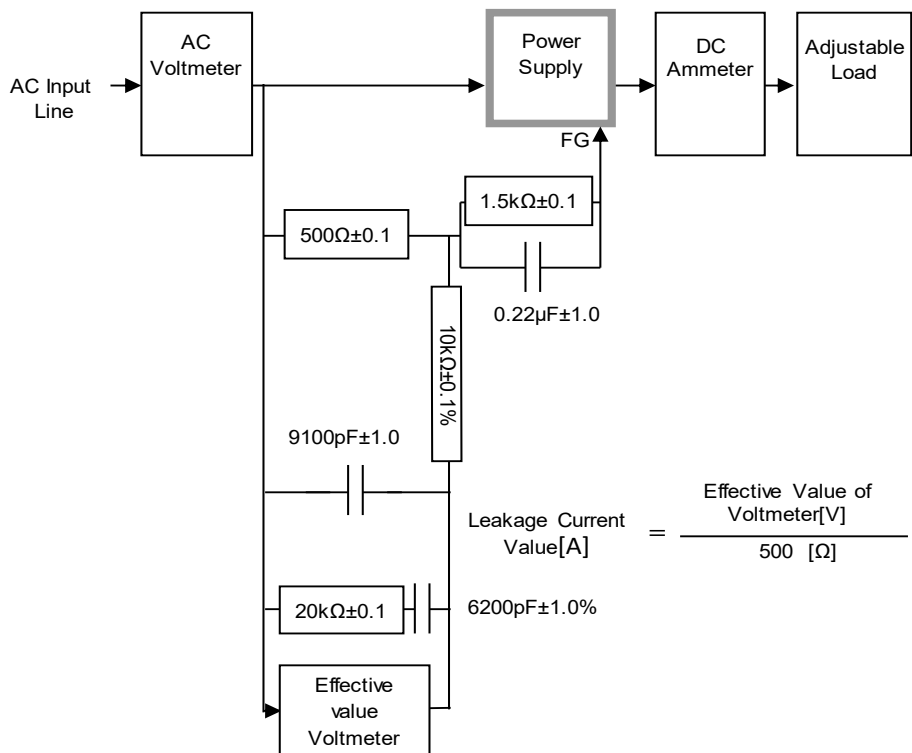


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)