

TEST DATA OF PDA300F-48

Regulated DC Power Supply
May 30, 2025

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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Model		PDA300F-48		Temperature 25°C																																																				
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<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>Input Current [A]</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">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>0.0</td><td>0.181</td><td>0.138</td><td>0.136</td></tr><tr><td>1.0</td><td>0.736</td><td>0.457</td><td>0.417</td></tr><tr><td>2.0</td><td>1.284</td><td>0.711</td><td>0.652</td></tr><tr><td>3.0</td><td>1.844</td><td>0.964</td><td>0.874</td></tr><tr><td>4.0</td><td>2.406</td><td>1.230</td><td>1.097</td></tr><tr><td>5.0</td><td>2.972</td><td>1.501</td><td>1.328</td></tr><tr><td>6.0</td><td>3.543</td><td>1.776</td><td>1.562</td></tr><tr><td>7.0</td><td>4.114</td><td>2.058</td><td>1.804</td></tr><tr><td>7.7</td><td>4.551</td><td>2.259</td><td>1.977</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	0.181	0.138	0.136	1.0	0.736	0.457	0.417	2.0	1.284	0.711	0.652	3.0	1.844	0.964	0.874	4.0	2.406	1.230	1.097	5.0	2.972	1.501	1.328	6.0	3.543	1.776	1.562	7.0	4.114	2.058	1.804	7.7	4.551	2.259	1.977	--	-	-	-	--	-	-	-
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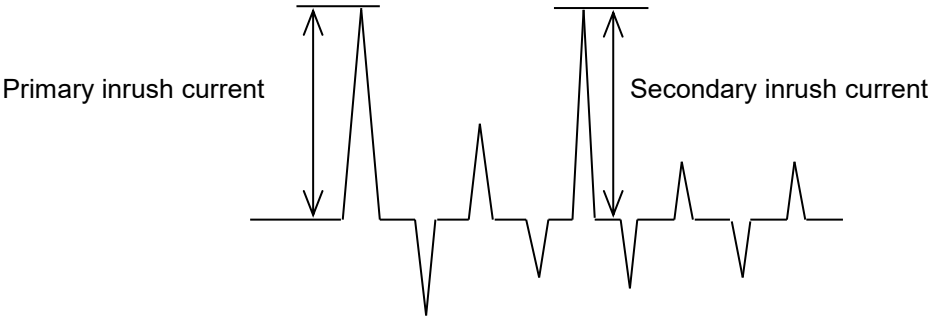
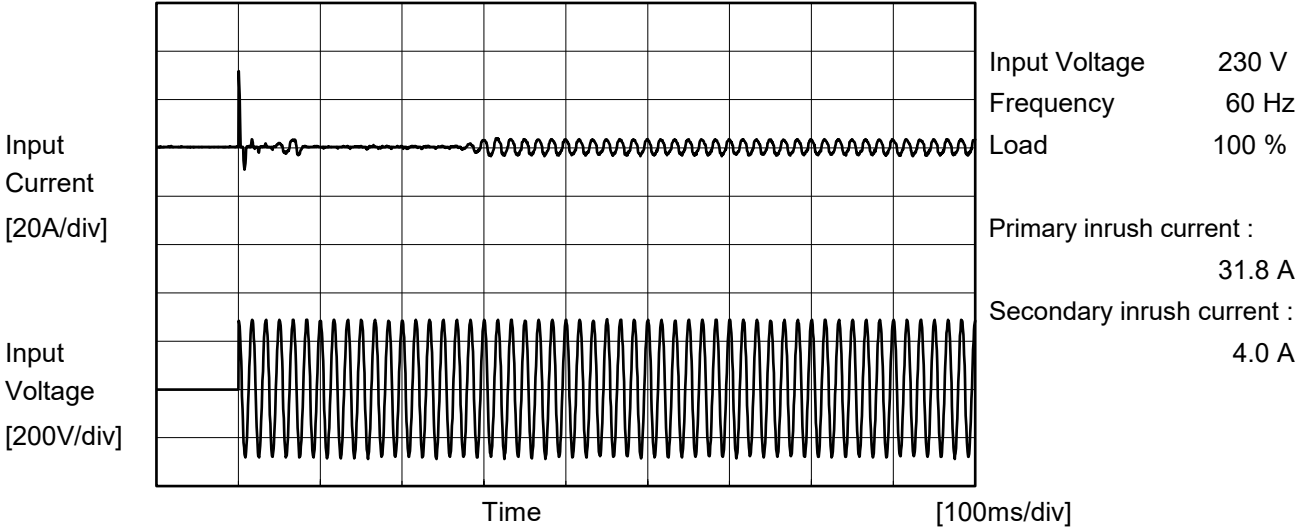
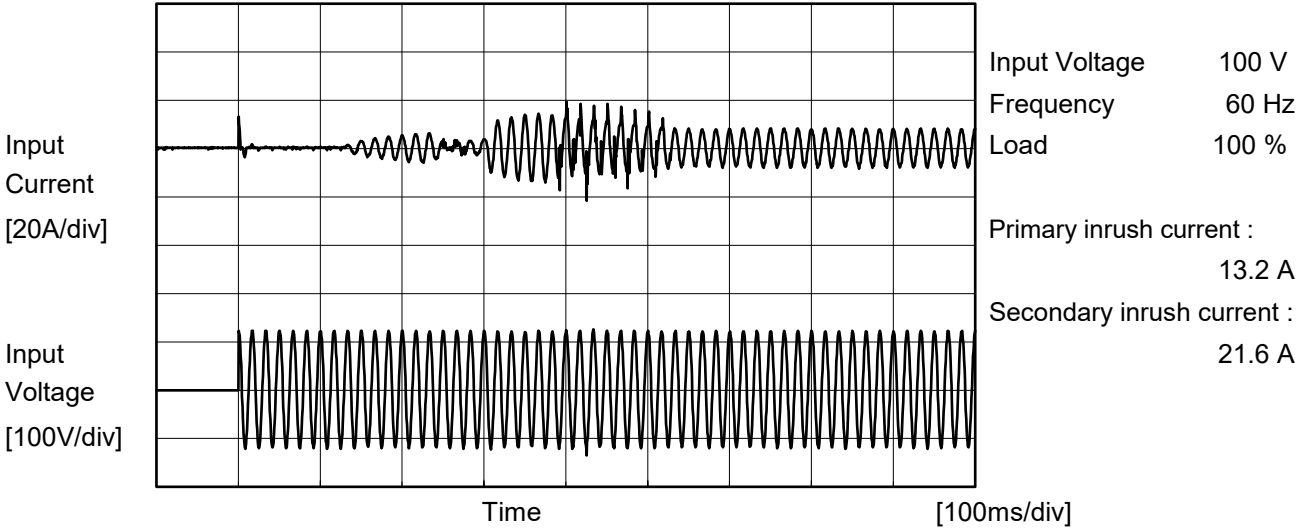
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Model		PDA300F-48	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PDA300F-48	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.

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Model	PDA300F-48		
Item	Line Regulation	Temperature	25°C
Object	+48V7A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><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></div> <div><div><div>Output Voltage [V]</div><div><div><div>48.70</div><div>48.60</div><div>48.50</div><div>48.40</div><div>48.30</div><div>48.20</div><div>48.10</div><div>48.00</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div></div><div><div>Input Voltage [V]</div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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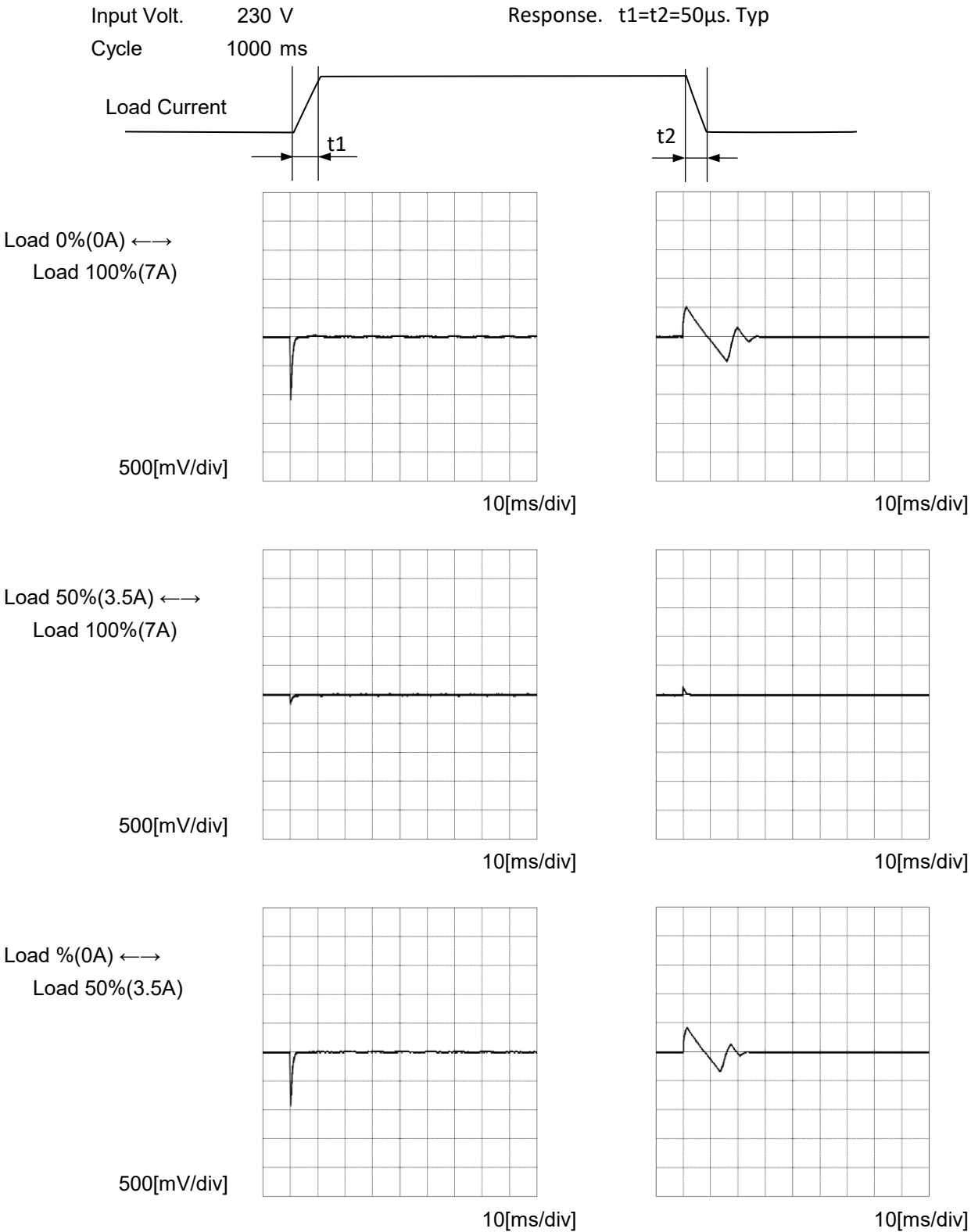
Model		PDA300F-48		Temperature25°C																																																				
Item		Load Regulation		Testing CircuitryFigure A																																																				
Object		+48V7A																																																						
1.Graph		<div><div><div><div>—△—</div><div>Input 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><p>Note: Slanted line shows the range of the rated load current.</p></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>0.0</td><td>48.418</td><td>48.420</td><td>48.416</td></tr><tr><td>1.0</td><td>48.430</td><td>48.433</td><td>48.429</td></tr><tr><td>2.0</td><td>48.428</td><td>48.432</td><td>48.428</td></tr><tr><td>3.0</td><td>48.427</td><td>48.430</td><td>48.427</td></tr><tr><td>4.0</td><td>48.426</td><td>48.430</td><td>48.427</td></tr><tr><td>5.0</td><td>48.426</td><td>48.430</td><td>48.425</td></tr><tr><td>6.0</td><td>48.428</td><td>48.430</td><td>48.426</td></tr><tr><td>7.0</td><td>48.431</td><td>48.431</td><td>48.427</td></tr><tr><td>7.7</td><td>48.435</td><td>48.432</td><td>48.429</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]	0.0	48.418	48.420	48.416	1.0	48.430	48.433	48.429	2.0	48.428	48.432	48.428	3.0	48.427	48.430	48.427	4.0	48.426	48.430	48.427	5.0	48.426	48.430	48.425	6.0	48.428	48.430	48.426	7.0	48.431	48.431	48.427	7.7	48.435	48.432	48.429	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	48.418	48.420	48.416																																																					
1.0	48.430	48.433	48.429																																																					
2.0	48.428	48.432	48.428																																																					
3.0	48.427	48.430	48.427																																																					
4.0	48.426	48.430	48.427																																																					
5.0	48.426	48.430	48.425																																																					
6.0	48.428	48.430	48.426																																																					
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Item		Ripple-Noise		Temperature25°C																																																				
Object		+48V7A		Testing CircuitryFigure B																																																				
1.Graph		<div><div><div>Input Voltage230V</div><div>Load100%</div></div><div><p>20[mV/div]</p><p>4[μs/div]</p></div></div>																																																						

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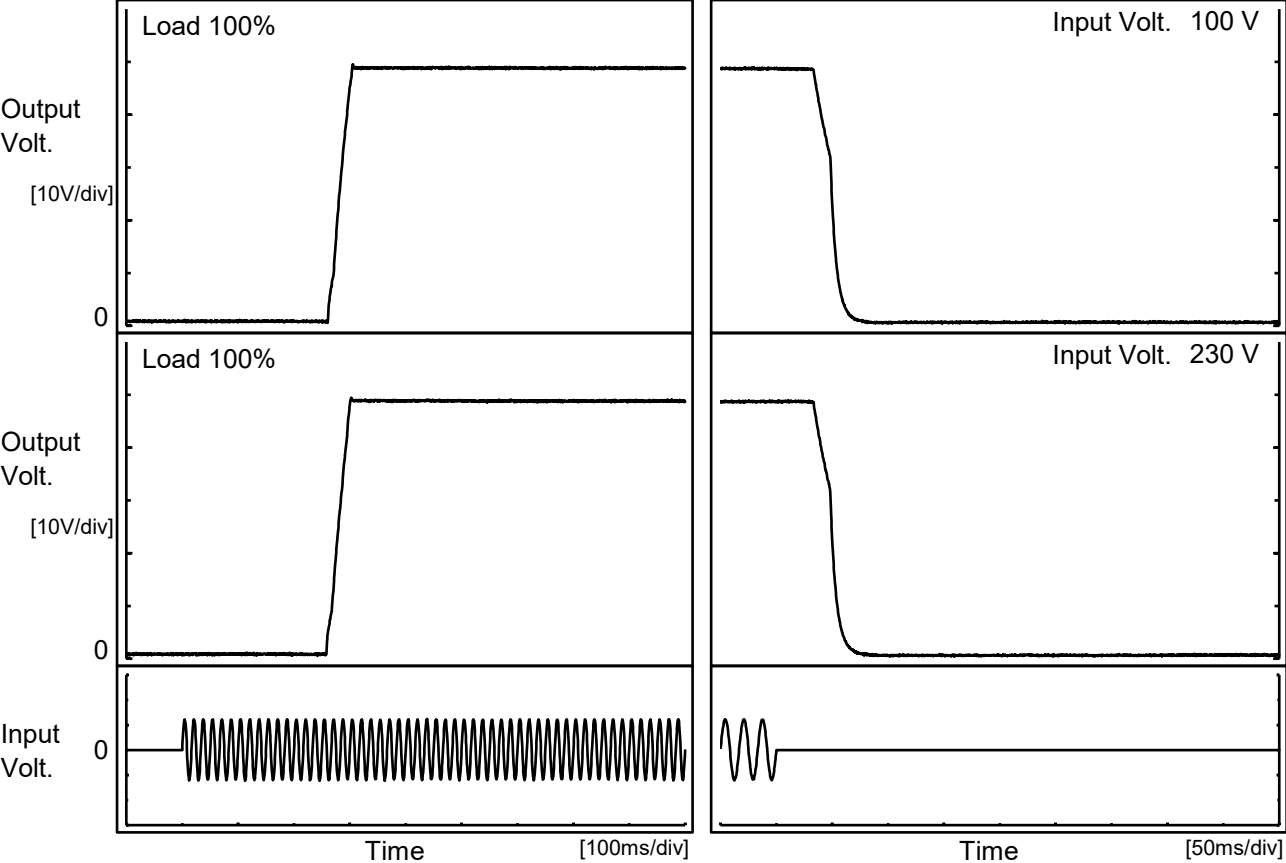
Model		PDA300F-48	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+48V7A	





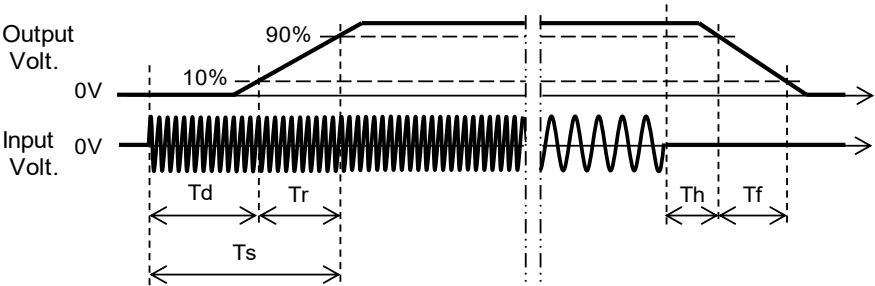
Model		PDA300F-48	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+48V7A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		264.0	34.5	298.5	37.0	21.5
230 V		261.5	35.0	296.5	37.0	21.5





<div>ModelPDA300F-48</div>		Temperature25°C Testing CircuitryFigure A																																
Item	Hold-Up Time																																	
Object	+48V7A																																	
<div>1.Graph<div><div><div></div><div>Load 50%</div></div><div><div></div><div>Load 100%</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. Note: Slanted line shows the range of the rated input voltage.</div></div>		<div>2.Values</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>69</td><td>33</td></tr><tr><td>90</td><td>69</td><td>33</td></tr><tr><td>100</td><td>69</td><td>33</td></tr><tr><td>120</td><td>69</td><td>33</td></tr><tr><td>200</td><td>68</td><td>33</td></tr><tr><td>230</td><td>68</td><td>33</td></tr><tr><td>264</td><td>68</td><td>33</td></tr><tr><td>280</td><td>70</td><td>33</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	69	33	90	69	33	100	69	33	120	69	33	200	68	33	230	68	33	264	68	33	280	70	33	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																	
	Load 50%	Load 100%																																
85	69	33																																
90	69	33																																
100	69	33																																
120	69	33																																
200	68	33																																
230	68	33																																
264	68	33																																
280	70	33																																
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Model		PDA300F-48	Temperature Testing Circuitry	25°C Figure A																																																	
Item		Instantaneous Interruption Compensation																																																			
Object		+48V7A																																																			
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>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</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>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.0</td><td>132</td><td>211</td><td>210</td></tr><tr><td>2.0</td><td>48</td><td>114</td><td>114</td></tr><tr><td>3.0</td><td>31</td><td>79</td><td>77</td></tr><tr><td>4.0</td><td>22</td><td>55</td><td>56</td></tr><tr><td>5.0</td><td>22</td><td>46</td><td>47</td></tr><tr><td>6.0</td><td>21</td><td>39</td><td>38</td></tr><tr><td>7.0</td><td>17</td><td>32</td><td>32</td></tr><tr><td>7.7</td><td>17</td><td>27</td><td>29</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]	0.0	-	-	-	1.0	132	211	210	2.0	48	114	114	3.0	31	79	77	4.0	22	55	56	5.0	22	46	47	6.0	21	39	38	7.0	17	32	32	7.7	17	27	29	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																				
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Note: Slanted line shows the range of the rated load current.																																																					

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BC-12165

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Model		PDA300F-48	Temperature		25°C																																												
Item		Overcurrent Protection	Testing Circuitry		Figure A																																												
Object		+48V7A																																															
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 28.8V 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>45.6</td><td>7.95</td><td>7.96</td></tr><tr><td>43.2</td><td>7.90</td><td>7.91</td></tr><tr><td>38.4</td><td>8.09</td><td>8.09</td></tr><tr><td>33.6</td><td>8.19</td><td>8.19</td></tr><tr><td>28.8</td><td>8.23</td><td>8.23</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]	45.6	7.95	7.96	43.2	7.90	7.91	38.4	8.09	8.09	33.6	8.19	8.19	28.8	8.23	8.23	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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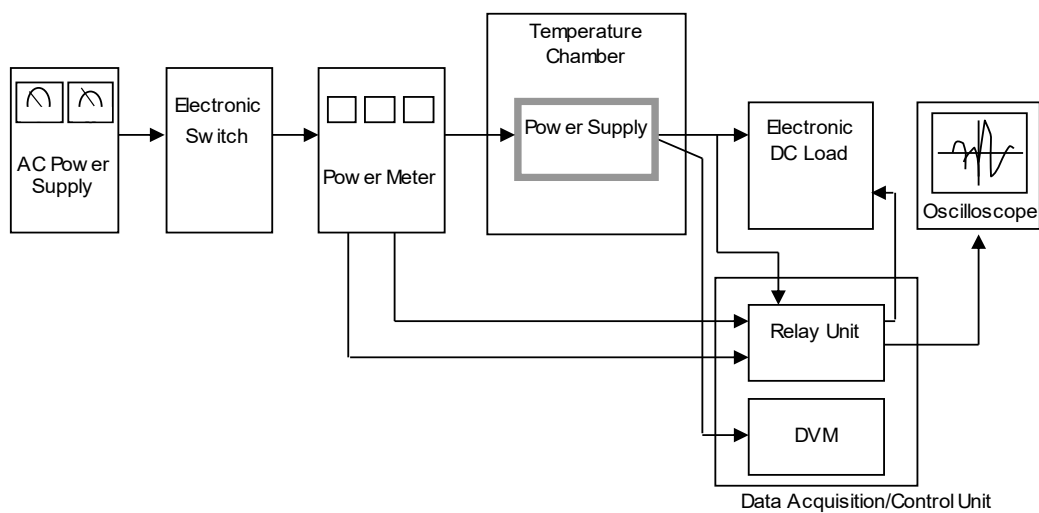


Figure A

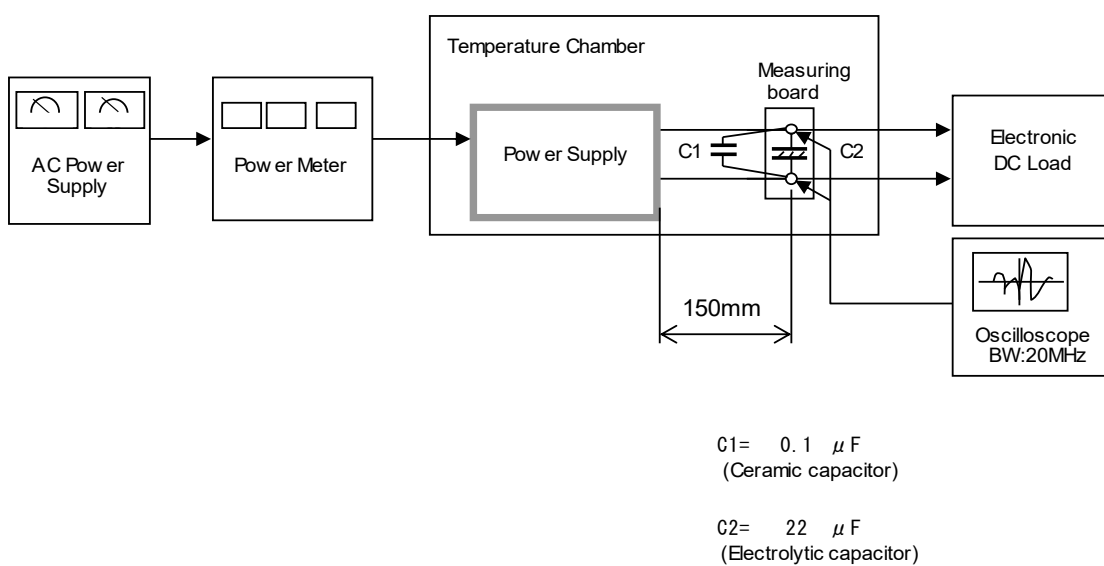


Figure B

