

# TEST DATA OF PDA300F-36

Regulated DC Power Supply  
May 30, 2025

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Design Manager

Prepared by : Terumasa Araki  
Design Engineer

**COSEL CO.,LTD.**

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Model

PDA300F-36

Item

Input Current (by Load Current)

Object

1.Graph

—△—

Input Volt.

100V

---□---

Input Volt.

200V

-·-○-·-

Input Volt.

230V

Input Current [A]

5.0

4.0

3.0

2.0

1.0

0.0

0

2

4

6

8

10

Load Current [A]

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

2.Values

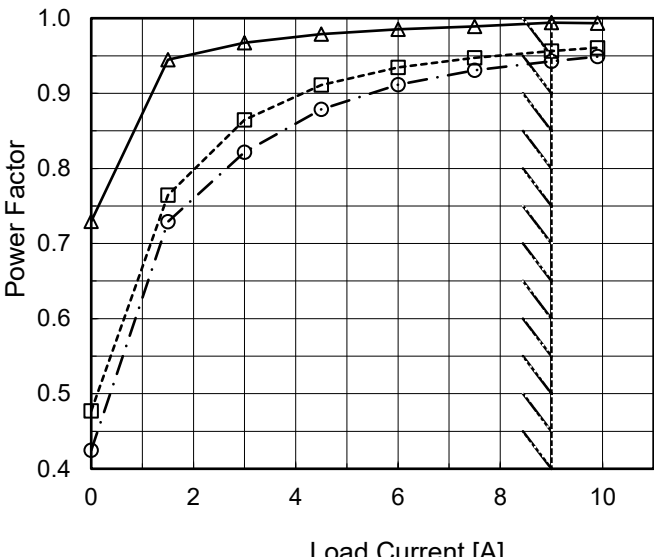
Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	0.196	0.147	0.144
1.5	0.837	0.507	0.463
3.0	1.464	0.794	0.727
4.5	2.103	1.090	0.981
6.0	2.752	1.398	1.241
7.5	3.404	1.716	1.511
9.0	4.076	2.044	1.792
9.9	4.506	2.242	1.963
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Model		PDA300F-36		Temperature Testing Circuitry	25°C Figure A																																																		
Item		Efficiency (by Load Current)																																																					
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> <table><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr></thead><tbody><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.5</td><td>69.1</td><td>70.5</td><td>70.4</td></tr><tr><td>3.0</td><td>77.4</td><td>79.7</td><td>79.7</td></tr><tr><td>4.5</td><td>79.8</td><td>82.6</td><td>82.8</td></tr><tr><td>6.0</td><td>80.9</td><td>83.7</td><td>84.0</td></tr><tr><td>7.5</td><td>81.3</td><td>84.1</td><td>84.5</td></tr><tr><td>9.0</td><td>81.1</td><td>83.9</td><td>84.4</td></tr><tr><td>9.9</td><td>80.7</td><td>83.7</td><td>84.2</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>		Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	1.5	69.1	70.5	70.4	3.0	77.4	79.7	79.7	4.5	79.8	82.6	82.8	6.0	80.9	83.7	84.0	7.5	81.3	84.1	84.5	9.0	81.1	83.9	84.4	9.9	80.7	83.7	84.2	--	-	-	-	--	-	-	-	--	-	-	-	2.Values
Load Current [A]	Efficiency [%]																																																						
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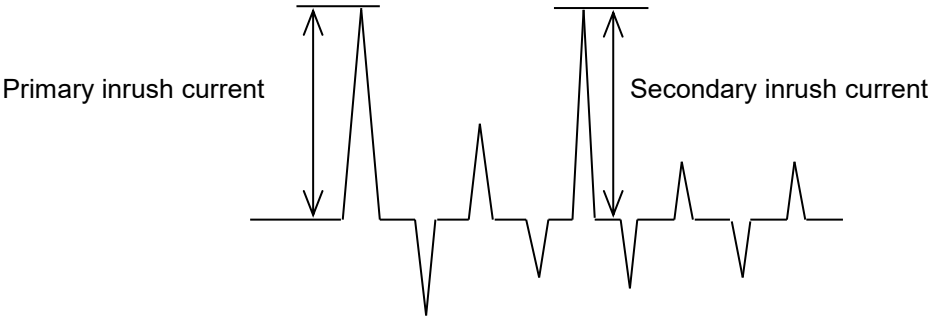
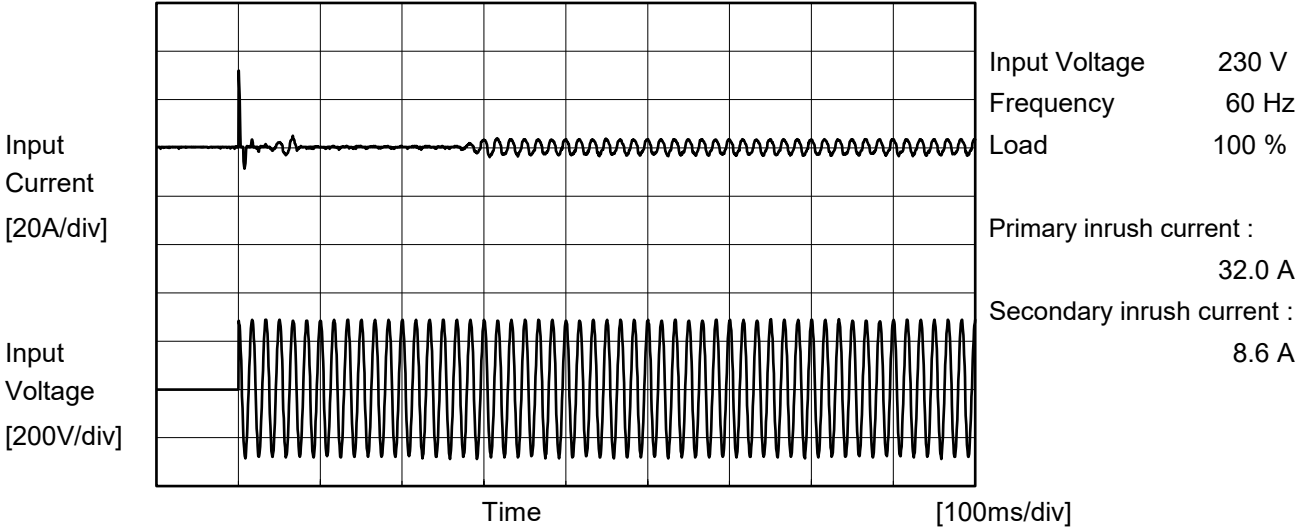
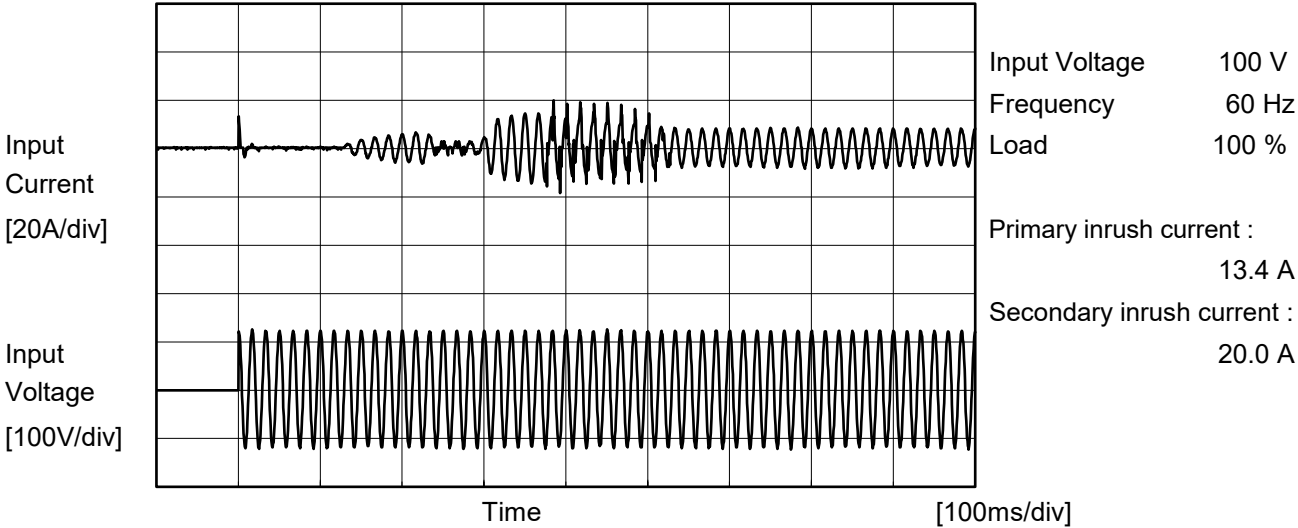
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Object		_____																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>230V</div></div></div>  <p>Power Factor</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																				
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Model		PDA300F-36	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PDA300F-36	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

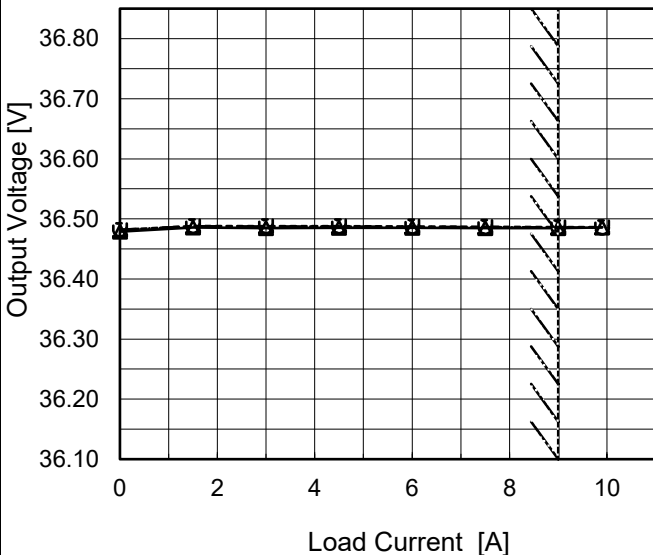
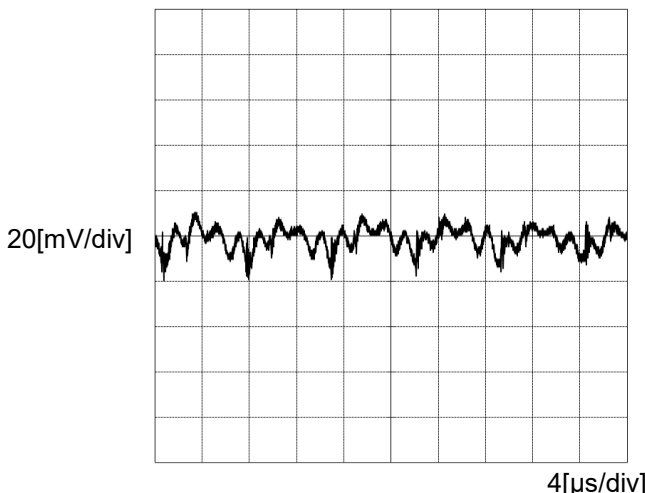
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

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Model		PDA300F-36	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+36V9A			
1.Graph			2.Values		
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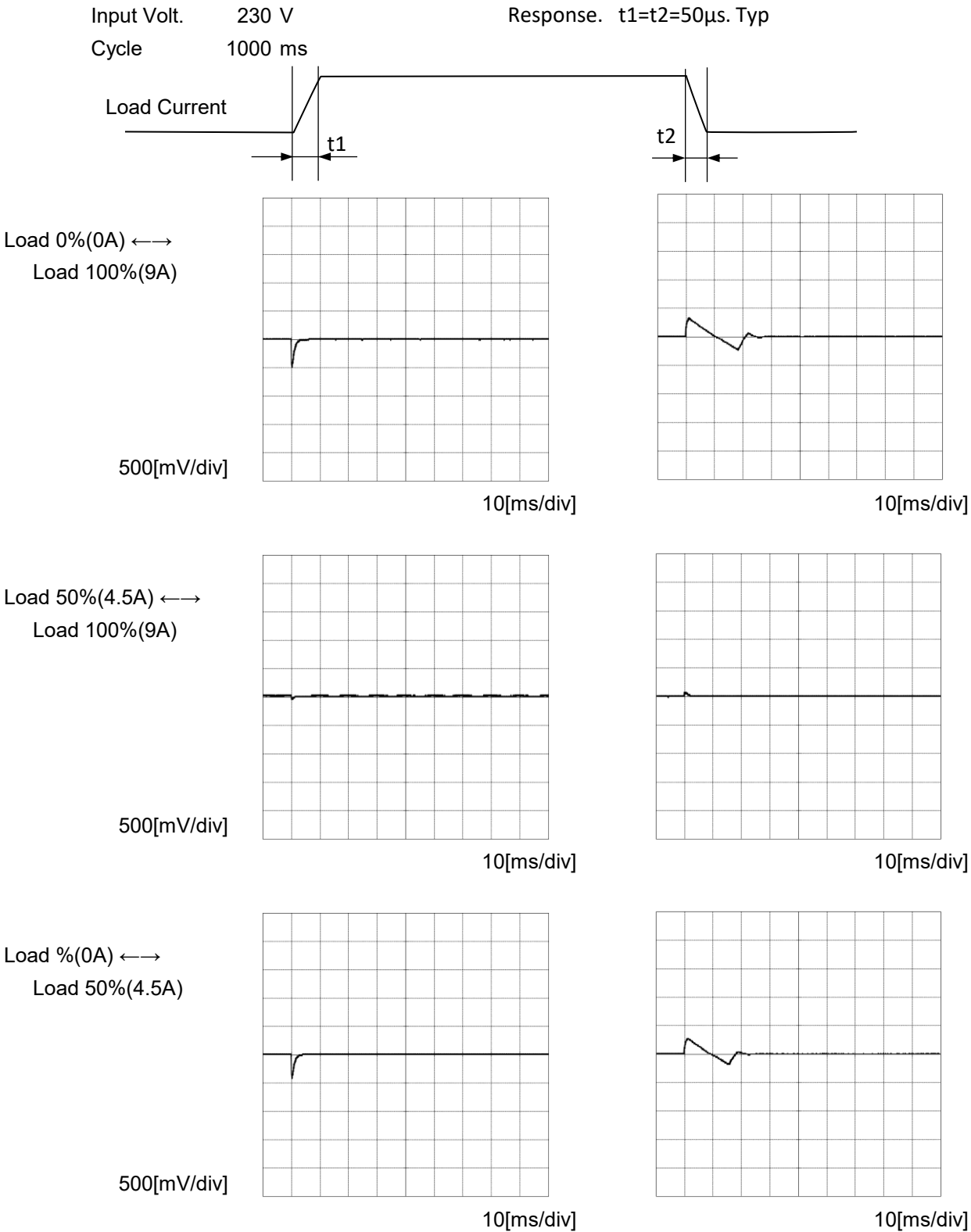
Model		PDA300F-36		Temperature 25°C																																																				
Item		Load Regulation		Testing Circuitry Figure A																																																				
Object		+36V9A																																																						
1.Graph		<div><div><div><div>—△—</div><div>Input 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><p>Note: Slanted line shows the range of the rated load current.</p></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>36.479</td><td>36.482</td><td>36.482</td></tr><tr><td>1.5</td><td>36.486</td><td>36.488</td><td>36.488</td></tr><tr><td>3.0</td><td>36.485</td><td>36.488</td><td>36.487</td></tr><tr><td>4.5</td><td>36.485</td><td>36.488</td><td>36.487</td></tr><tr><td>6.0</td><td>36.485</td><td>36.487</td><td>36.487</td></tr><tr><td>7.5</td><td>36.485</td><td>36.487</td><td>36.486</td></tr><tr><td>9.0</td><td>36.485</td><td>36.487</td><td>36.486</td></tr><tr><td>9.9</td><td>36.486</td><td>36.486</td><td>36.485</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]	0.0	36.479	36.482	36.482	1.5	36.486	36.488	36.488	3.0	36.485	36.488	36.487	4.5	36.485	36.488	36.487	6.0	36.485	36.487	36.487	7.5	36.485	36.487	36.486	9.0	36.485	36.487	36.486	9.9	36.486	36.486	36.485	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																							
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Item		Ripple-Noise		Temperature 25°C																																																				
Object		+36V9A		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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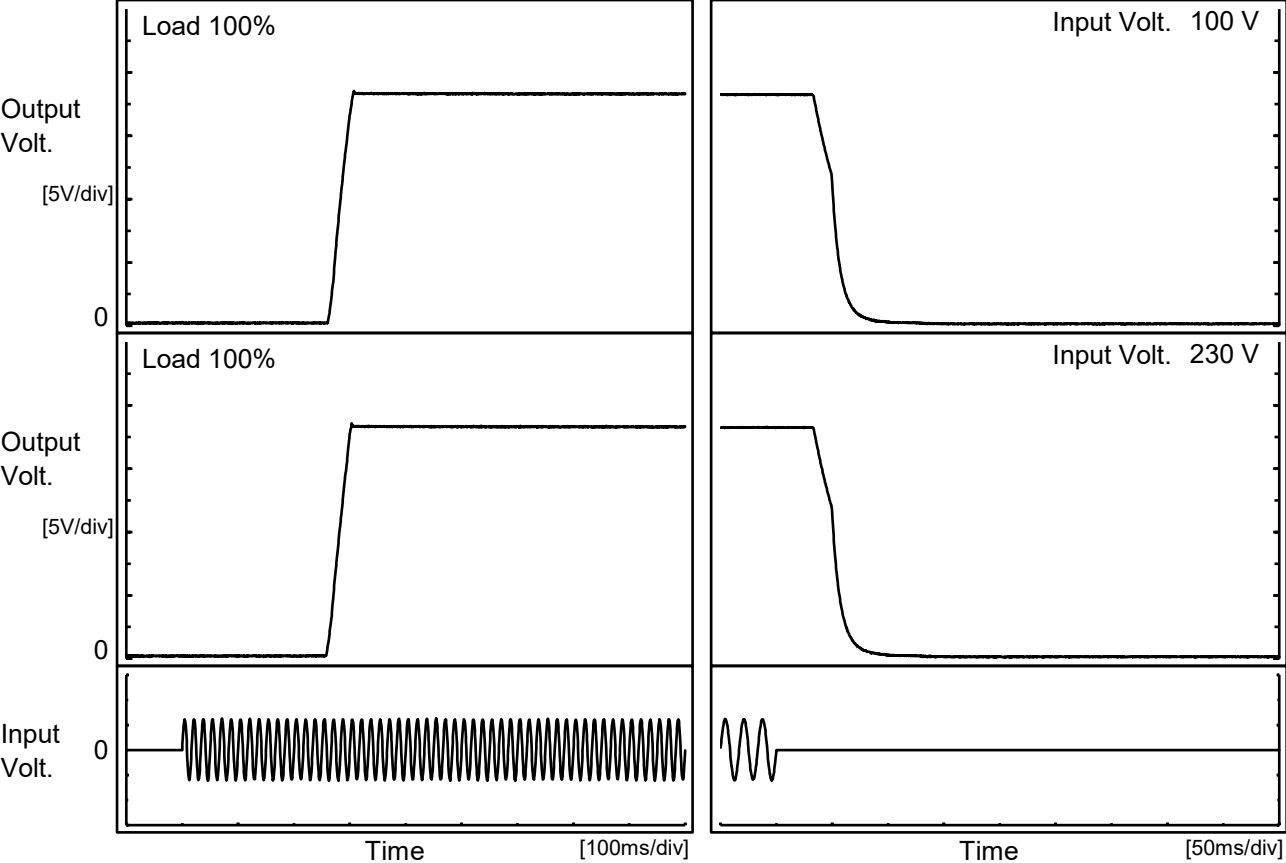
Model		PDA300F-36	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+36V9A	





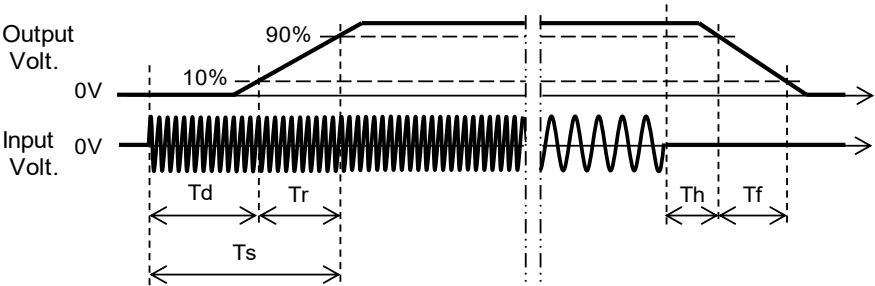
Model		PDA300F-36	Temperature     25°C Testing Circuitry   Figure A
Item		Rise and Fall Time	
Object		+36V9A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		266.5	32.5	299.0	37.5	27.3
230 V		263.5	33.0	296.5	37.5	27.5



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Model		PDA300F-36	Temperature		25°C																																
Item		Hold-Up Time	Testing Circuitry		Figure A																																
Object		+36V9A																																			
1.Graph			2.Values																																		
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></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>69</td><td>34</td></tr><tr><td>90</td><td>69</td><td>34</td></tr><tr><td>100</td><td>69</td><td>34</td></tr><tr><td>120</td><td>69</td><td>34</td></tr><tr><td>200</td><td>69</td><td>34</td></tr><tr><td>230</td><td>69</td><td>34</td></tr><tr><td>264</td><td>69</td><td>34</td></tr><tr><td>280</td><td>70</td><td>34</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	69	34	90	69	34	100	69	34	120	69	34	200	69	34	230	69	34	264	69	34	280	70	34	--	-	-			
Input Voltage [V]	Hold-Up Time [ms]																																				
	Load 50%	Load 100%																																			
85	69	34																																			
90	69	34																																			
100	69	34																																			
120	69	34																																			
200	69	34																																			
230	69	34																																			
264	69	34																																			
280	70	34																																			
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**COSEL**

<div>LOVEL</div>																																																																																																						
Model	PDA300F-36	Temperature	25°C																																																																																																			
Item	Instantaneous Interruption Compensation	Testing Circuitry	Figure A																																																																																																			
Object	+36V9A																																																																																																					
1.Graph		2.Values																																																																																																				
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**COSEL**

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Item	Overcurrent Protection	Temperature	25°C																																												
Object	+36V9A	Testing Circuitry	Figure A																																												
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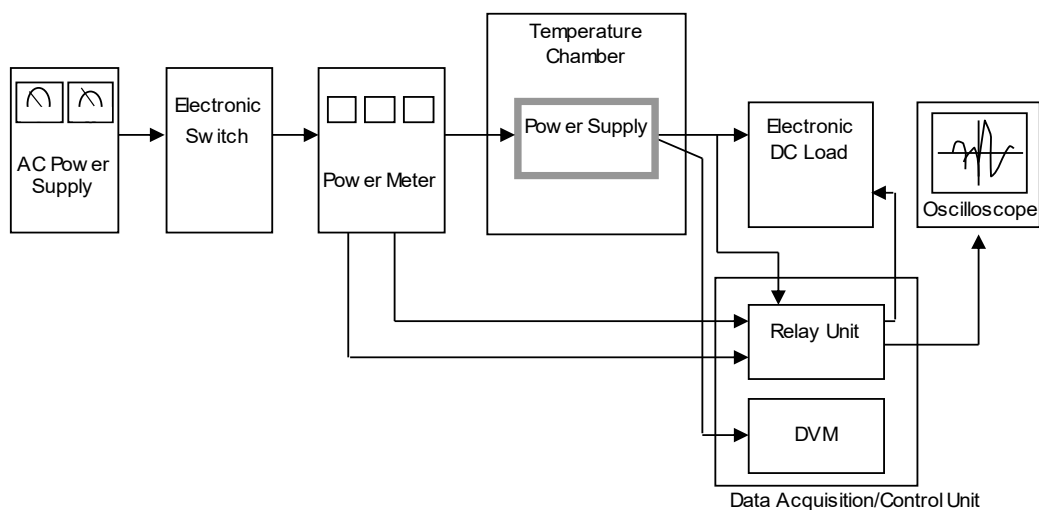


Figure A

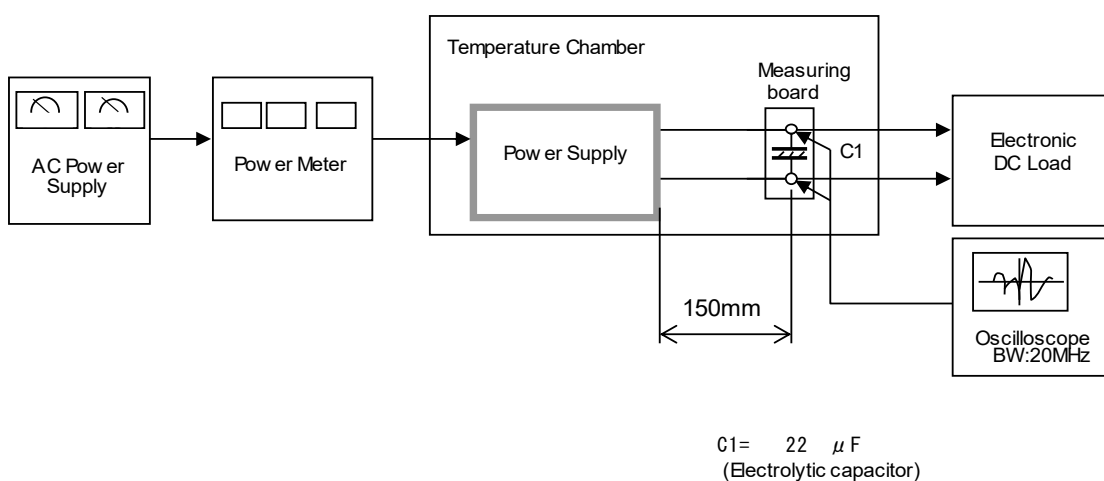


Figure B



