

# TEST DATA OF PDA300F-15

Regulated DC Power Supply  
May 29, 2025

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Design Manager

Prepared by : Terumasa Araki  
Design Engineer

**COSEL CO.,LTD.**

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Model		PDA300F-15	Temperature Testing Circuitry	25°C Figure A																																																		
Item		Input Current (by Load Current)																																																				
Object		_____																																																				
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>-·-○-·-</div>Input Volt. 230V</div> <p>Input Current [A]</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">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>0.203</td><td>0.153</td><td>0.149</td></tr><tr><td>4.0</td><td>0.903</td><td>0.540</td><td>0.493</td></tr><tr><td>8.0</td><td>1.591</td><td>0.858</td><td>0.785</td></tr><tr><td>12.0</td><td>2.299</td><td>1.187</td><td>1.067</td></tr><tr><td>16.0</td><td>3.019</td><td>1.528</td><td>1.357</td></tr><tr><td>20.0</td><td>3.768</td><td>1.885</td><td>1.661</td></tr><tr><td>22.0</td><td>4.125</td><td>2.069</td><td>1.817</td></tr><tr><td>24.2</td><td>4.568</td><td>2.272</td><td>1.993</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	0.203	0.153	0.149	4.0	0.903	0.540	0.493	8.0	1.591	0.858	0.785	12.0	2.299	1.187	1.067	16.0	3.019	1.528	1.357	20.0	3.768	1.885	1.661	22.0	4.125	2.069	1.817	24.2	4.568	2.272	1.993	--	-	-	-	--	-	-	-	--	-	-	-
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Model		PDA300F-15		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
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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>Efficiency [%]</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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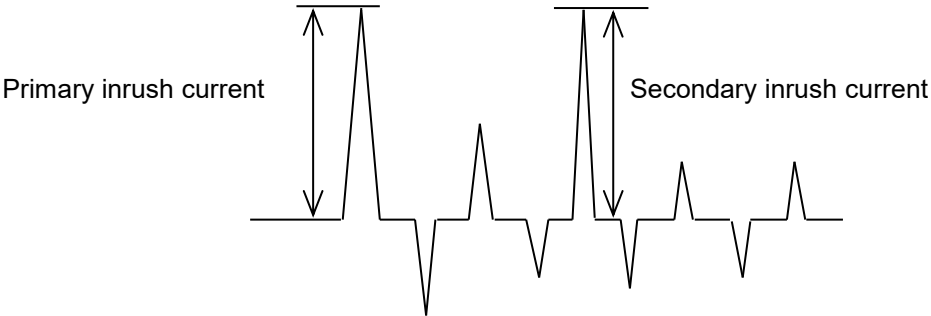
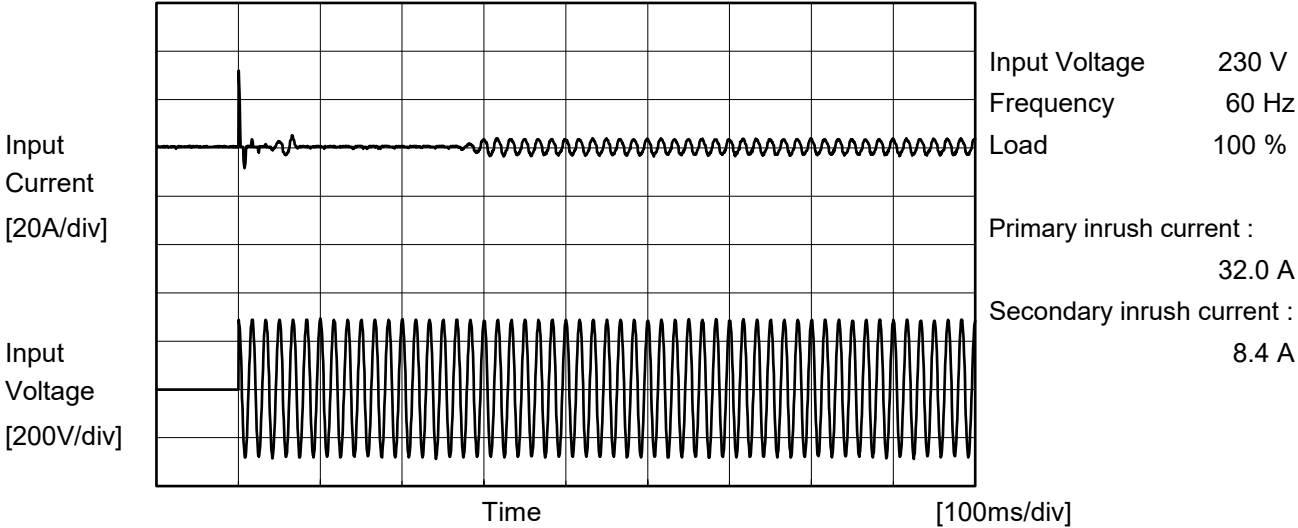
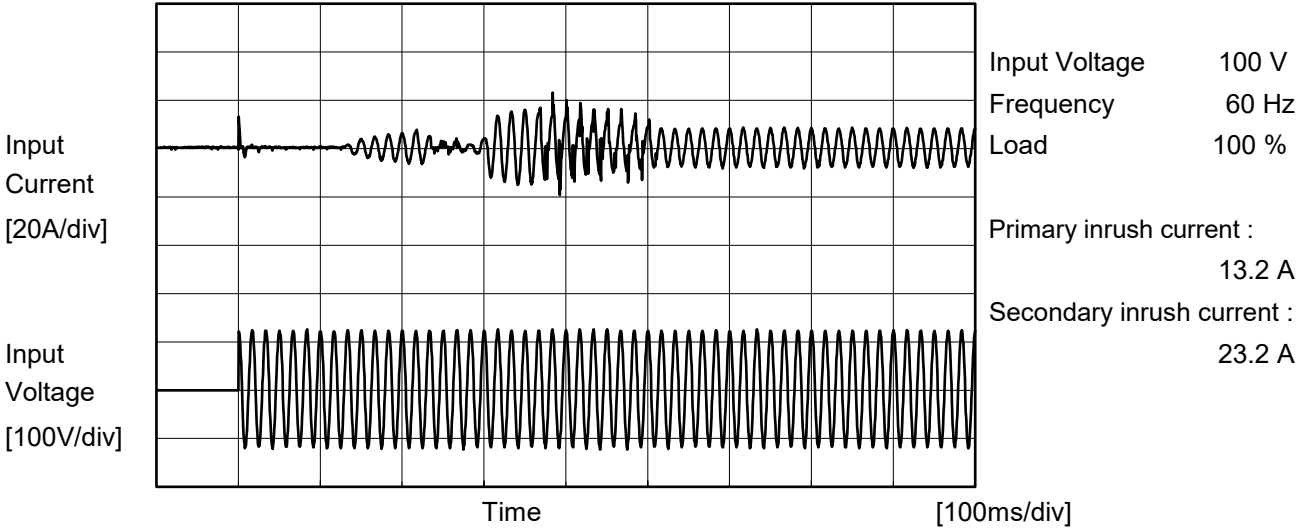
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Model		PDA300F-15	Temperature     25°C Testing Circuitry   Figure A
Item		Inrush Current	
Object		_____	





Model		PDA300F-15	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

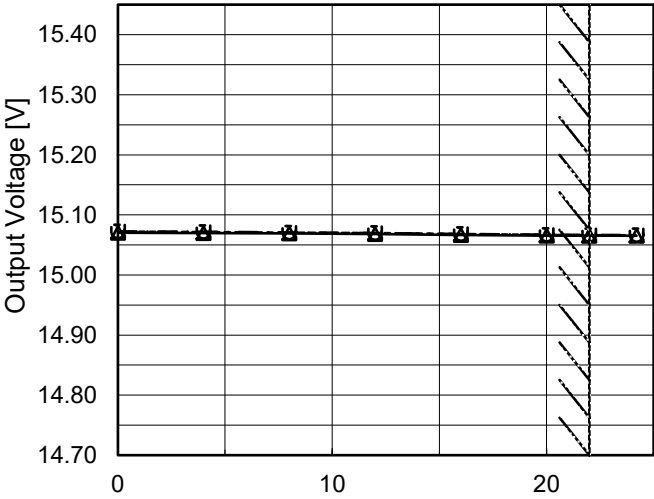
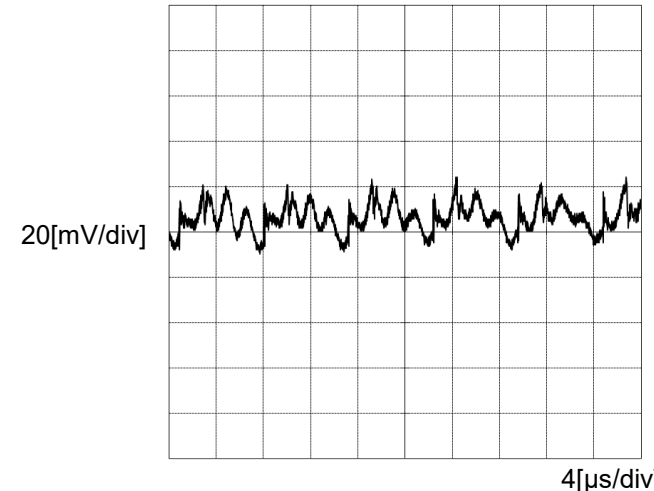
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

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Model		PDA300F-15	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+15V22A			
1.Graph			2.Values		
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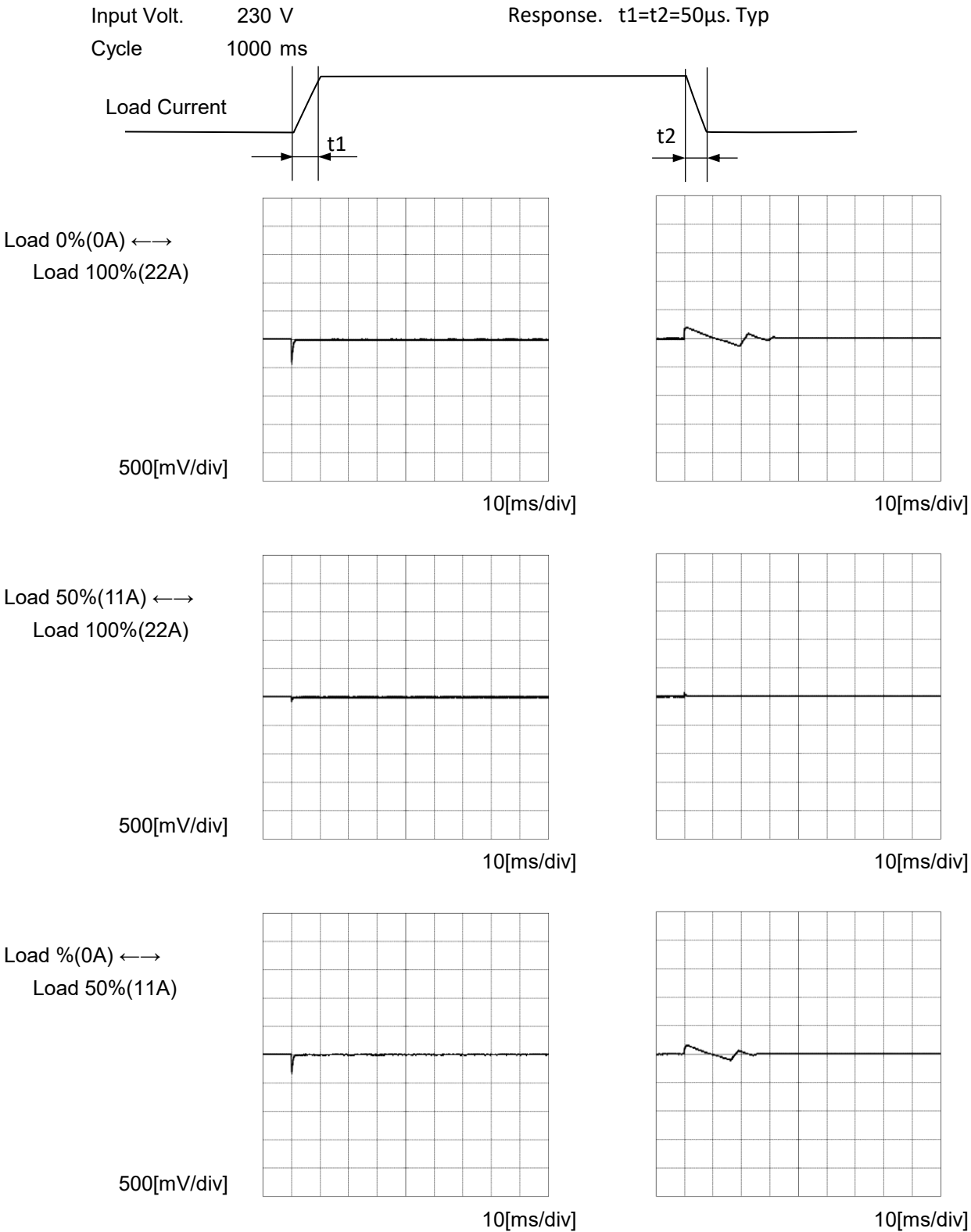


# COSEL

Model	PDA300F-15																																																					
Item	Load Regulation	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	+15V22A																																																					
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>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 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>0.0</td><td>15.070</td><td>15.072</td><td>15.073</td></tr><tr><td>4.0</td><td>15.070</td><td>15.071</td><td>15.072</td></tr><tr><td>8.0</td><td>15.069</td><td>15.070</td><td>15.071</td></tr><tr><td>12.0</td><td>15.068</td><td>15.070</td><td>15.070</td></tr><tr><td>16.0</td><td>15.067</td><td>15.068</td><td>15.068</td></tr><tr><td>20.0</td><td>15.066</td><td>15.067</td><td>15.067</td></tr><tr><td>22.0</td><td>15.066</td><td>15.066</td><td>15.067</td></tr><tr><td>24.2</td><td>15.065</td><td>15.066</td><td>15.066</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	15.070	15.072	15.073	4.0	15.070	15.071	15.072	8.0	15.069	15.070	15.071	12.0	15.068	15.070	15.070	16.0	15.067	15.068	15.068	20.0	15.066	15.067	15.067	22.0	15.066	15.066	15.067	24.2	15.065	15.066	15.066	--	--	--	--	--	--	--	--	--	--	--	--
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Item	Ripple-Noise	Temperature	25°C																																																			
		Testing Circuitry	Figure B																																																			
Object	+15V22A																																																					
1.Graph																																																						
<div><div>Input Voltage230V</div><div>Load100%</div></div> 																																																						



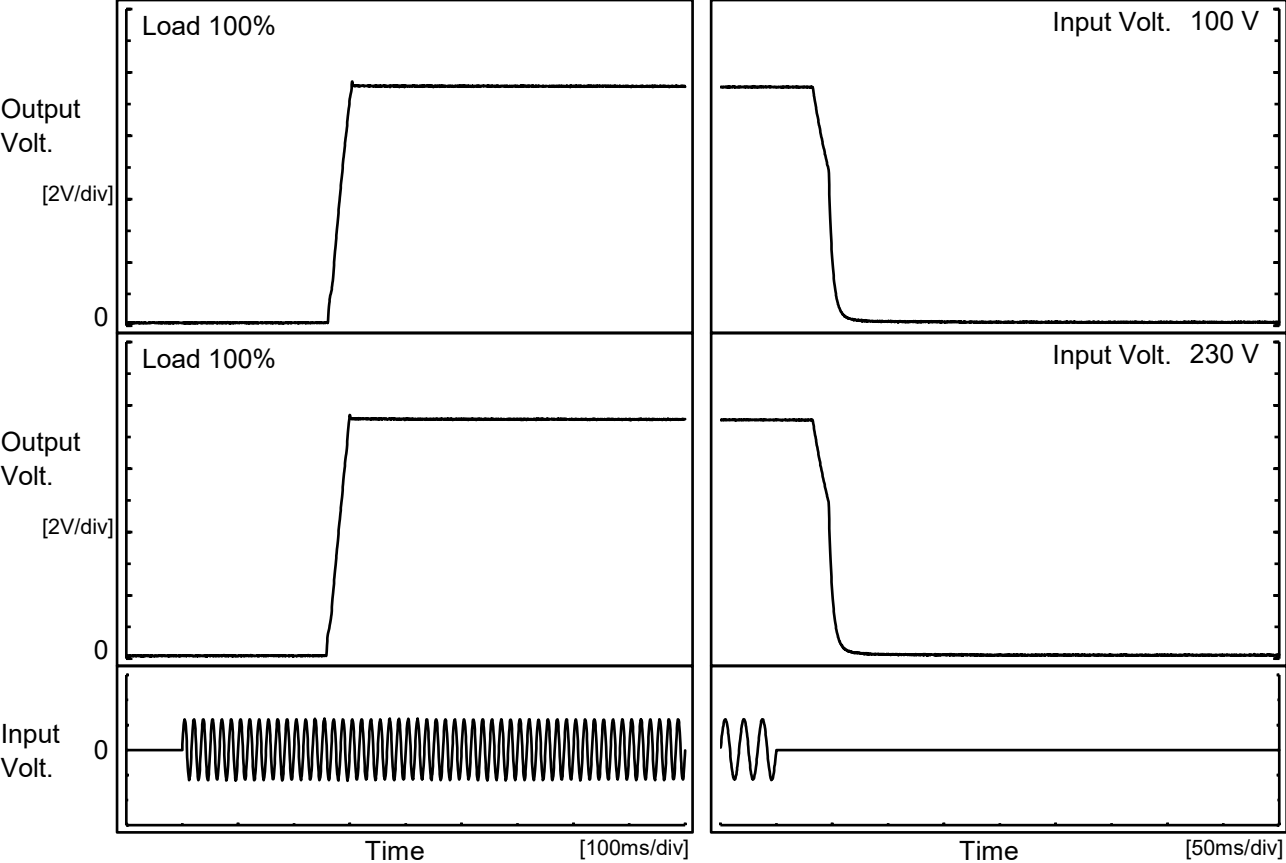
Model		PDA300F-15	Temperature     25°C Testing Circuitry   Figure A
Item		Dynamic Load Response	
Object		+15V22A	





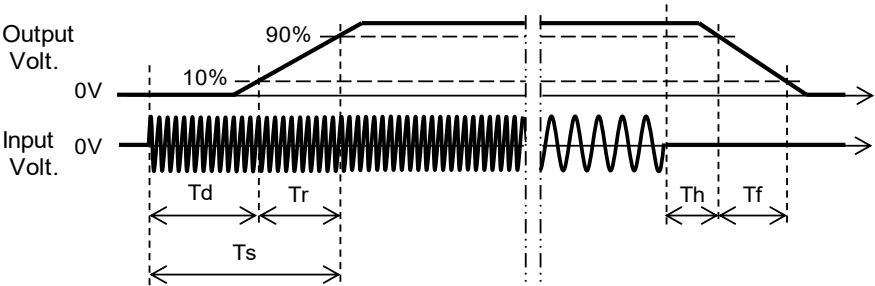
Model		PDA300F-15	Temperature     25°C Testing Circuitry   Figure A
Item		Rise and Fall Time	
Object		+15V22A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		264.0	34.0	298.0	36.0	18.3
230 V		261.0	34.5	295.5	36.0	18.3



**COSEL**

Model		PDA300F-15	Temperature		25°C																																			
Item		Hold-Up Time	Testing Circuitry		Figure A																																			
Object		+15V22A																																						
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><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></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><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> <tr><td colspan="3"></td><td colspan="3"><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>68</td><td>33</td></tr><tr><td>90</td><td>68</td><td>33</td></tr><tr><td>100</td><td>68</td><td>33</td></tr><tr><td>120</td><td>68</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>69</td><td>33</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></td></tr>						<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>68</td><td>33</td></tr><tr><td>90</td><td>68</td><td>33</td></tr><tr><td>100</td><td>68</td><td>33</td></tr><tr><td>120</td><td>68</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>69</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	68	33	90	68	33	100	68	33	120	68	33	200	68	33	230	68	33	264	68	33	280	69	33	--	-	-
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**COSEL**

LOREL																																															
Model	PDA300F-15																																														
Item	Overcurrent Protection	Temperature	25°C																																												
Object	+15V22A	Testing Circuitry	Figure A																																												
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 9.00V 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>14.25</td><td>25.16</td><td>25.18</td></tr><tr><td>13.50</td><td>25.27</td><td>25.28</td></tr><tr><td>12.00</td><td>25.65</td><td>25.66</td></tr><tr><td>10.50</td><td>26.02</td><td>26.03</td></tr><tr><td>9.00</td><td>26.40</td><td>26.41</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]	14.25	25.16	25.18	13.50	25.27	25.28	12.00	25.65	25.66	10.50	26.02	26.03	9.00	26.40	26.41	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																														
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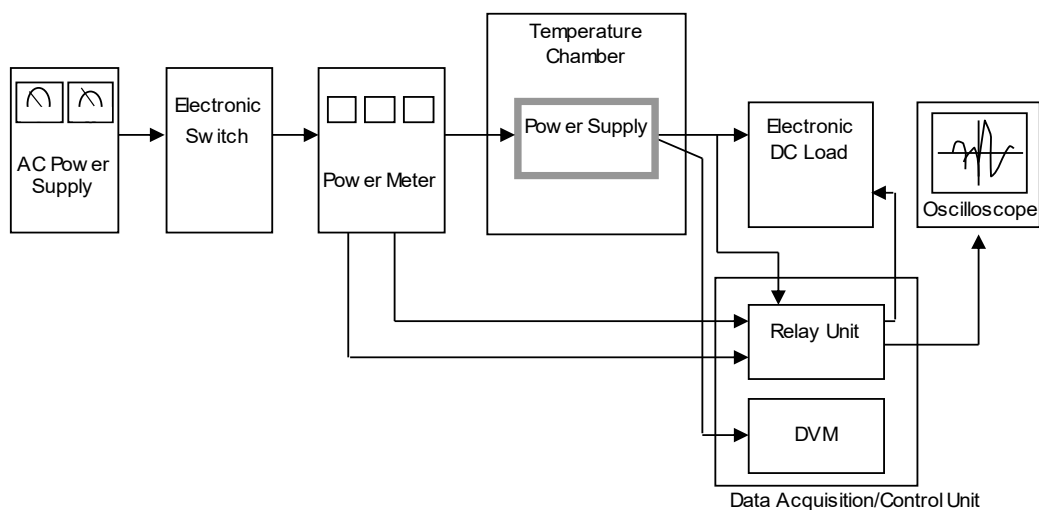


Figure A

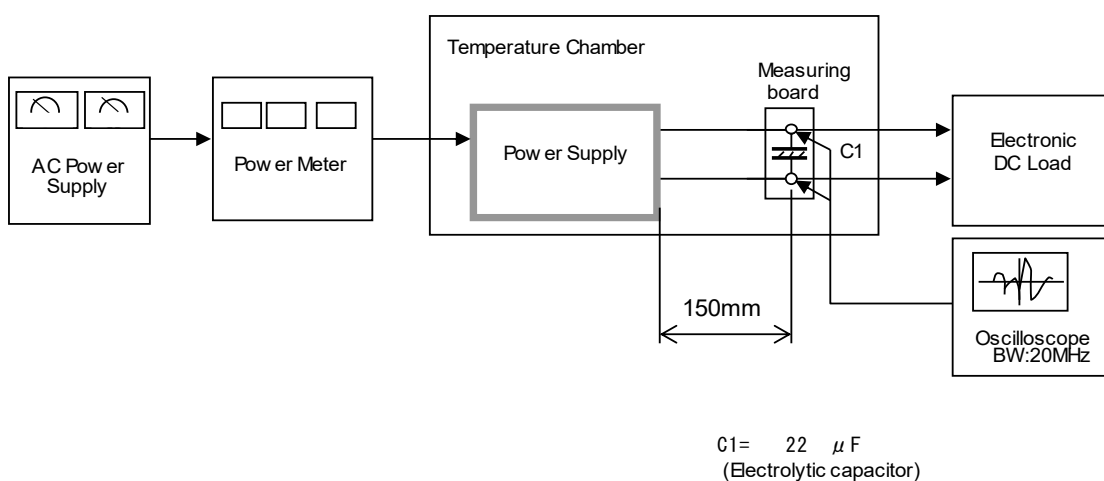


Figure B



