

TEST DATA OF PDA600F-36

Regulated DC Power Supply
May 28, 2025

Approved by : Yoshiaki Shimizu
Design Manager

Prepared by : Terumasa Araki
Design Engineer

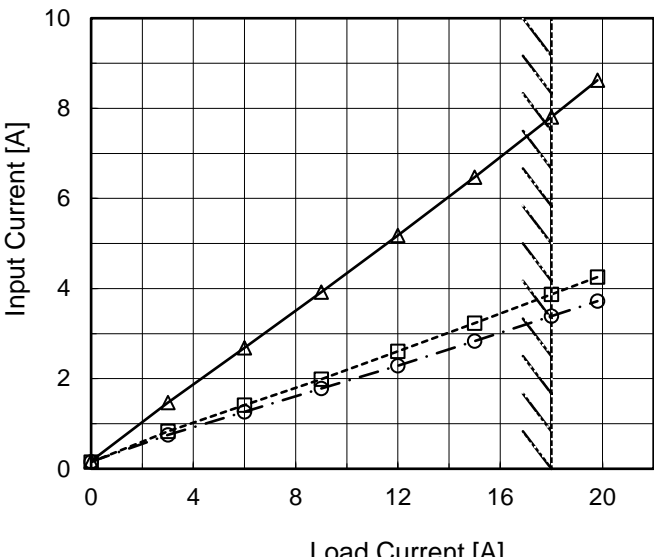
COSEL CO.,LTD.

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Model		PDA600F-36		Temperature Testing Circuitry	25°C Figure A																																																			
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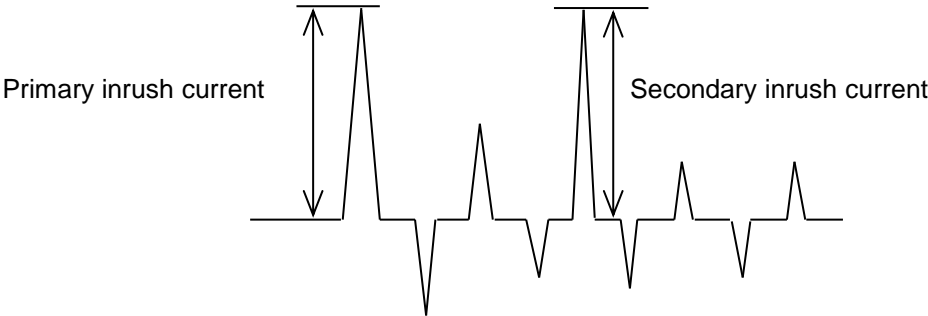
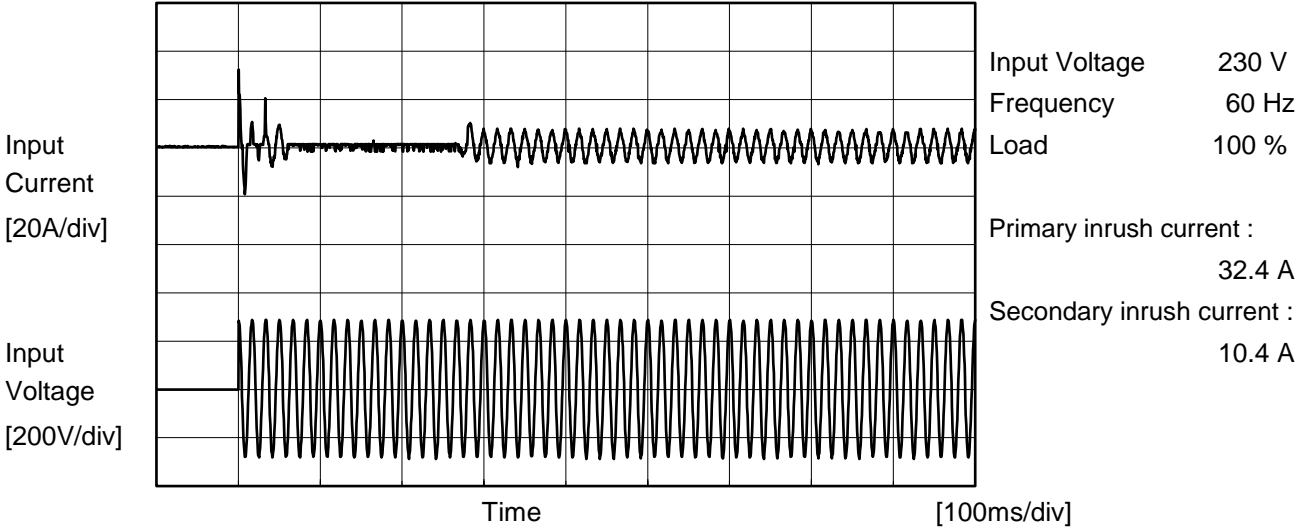
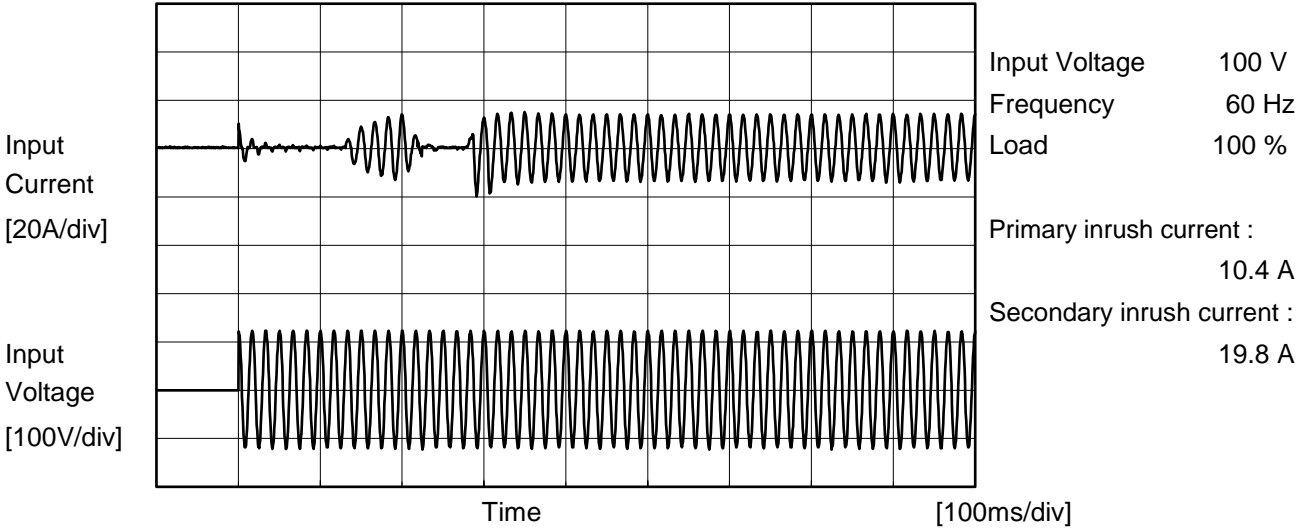
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Model		PDA600F-36	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PDA600F-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	0.16	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.

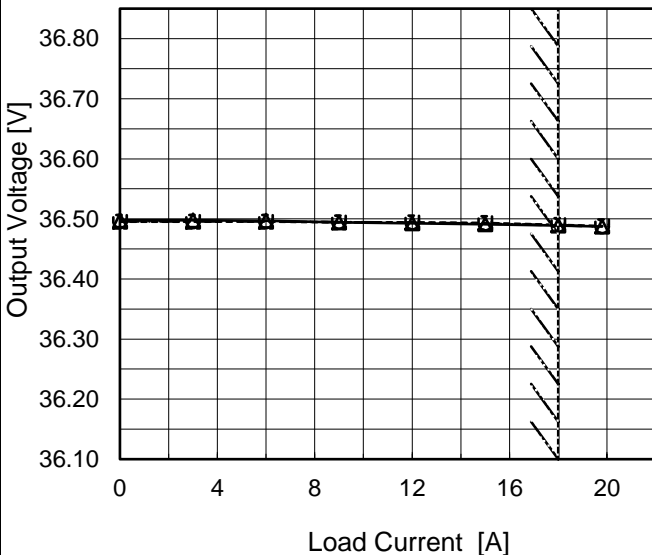
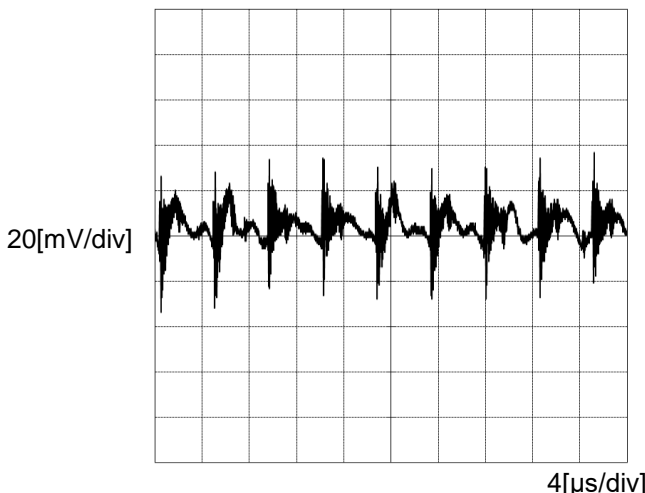
2.Condition

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

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Model		PDA600F-36	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+36V18A			
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>Output 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></di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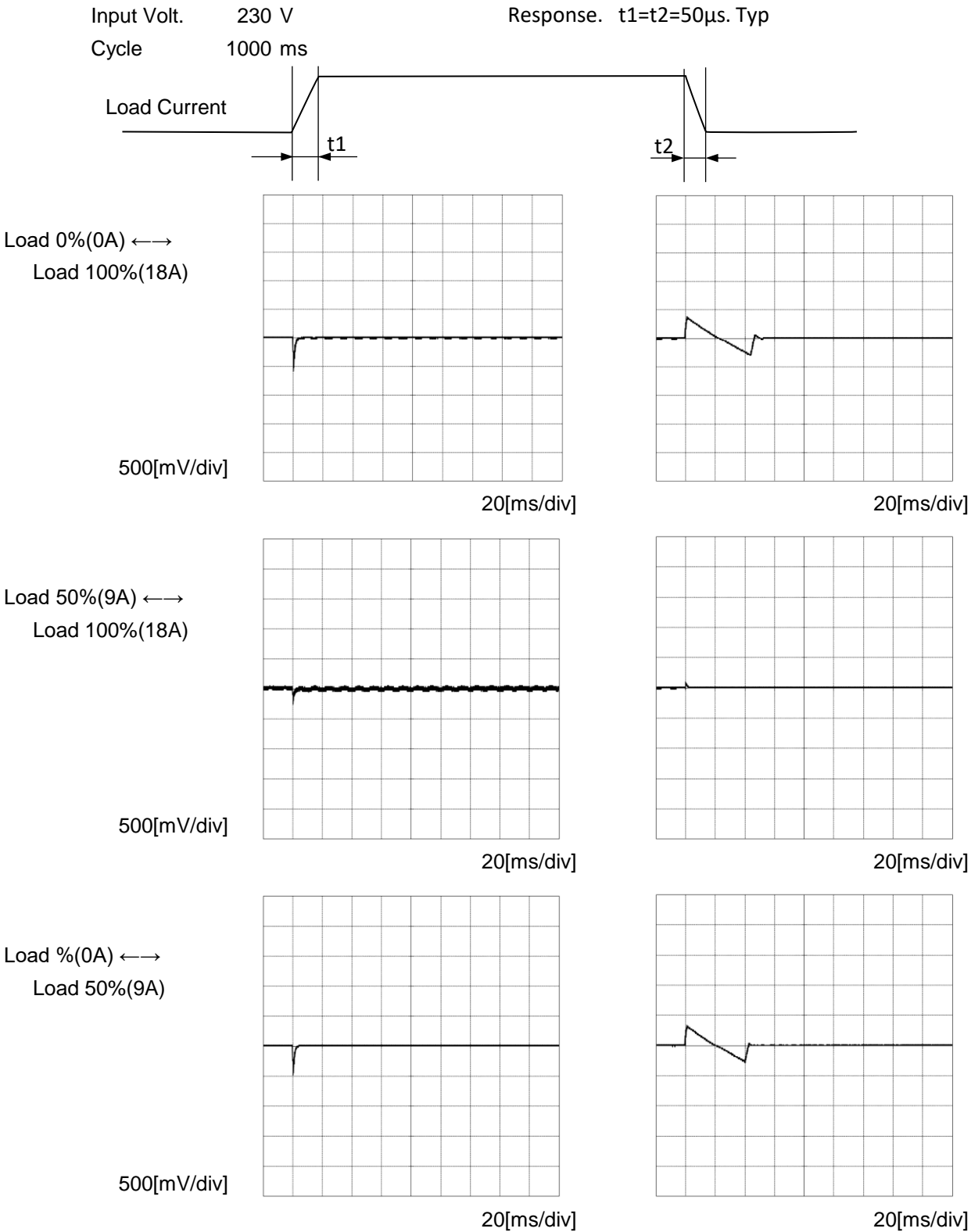
Model	PDA600F-36	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+36V18A																																																					
1.Graph		2.Values																																																				
<div><div><div><div><div></div><div>△</div></div><div>—</div></div><div>Input Volt. 100V</div></div><div><div><div><div></div><div>□</div></div><div>---</div></div><div>Input Volt. 200V</div></div><div><div><div><div></div><div>○</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>		<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>36.498</td><td>36.495</td><td>36.496</td></tr><tr><td>3.0</td><td>36.498</td><td>36.495</td><td>36.496</td></tr><tr><td>6.0</td><td>36.497</td><td>36.496</td><td>36.496</td></tr><tr><td>9.0</td><td>36.494</td><td>36.494</td><td>36.495</td></tr><tr><td>12.0</td><td>36.493</td><td>36.494</td><td>36.494</td></tr><tr><td>15.0</td><td>36.491</td><td>36.493</td><td>36.492</td></tr><tr><td>18.0</td><td>36.489</td><td>36.490</td><td>36.490</td></tr><tr><td>19.8</td><td>36.487</td><td>36.488</td><td>36.487</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	36.498	36.495	36.496	3.0	36.498	36.495	36.496	6.0	36.497	36.496	36.496	9.0	36.494	36.494	36.495	12.0	36.493	36.494	36.494	15.0	36.491	36.493	36.492	18.0	36.489	36.490	36.490	19.8	36.487	36.488	36.487	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	36.498	36.495	36.496																																																			
3.0	36.498	36.495	36.496																																																			
6.0	36.497	36.496	36.496																																																			
9.0	36.494	36.494	36.495																																																			
12.0	36.493	36.494	36.494																																																			
15.0	36.491	36.493	36.492																																																			
18.0	36.489	36.490	36.490																																																			
19.8	36.487	36.488	36.487																																																			
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+36V18A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div>Input Voltage230V</div><div>Load100%</div></div> 																																																						

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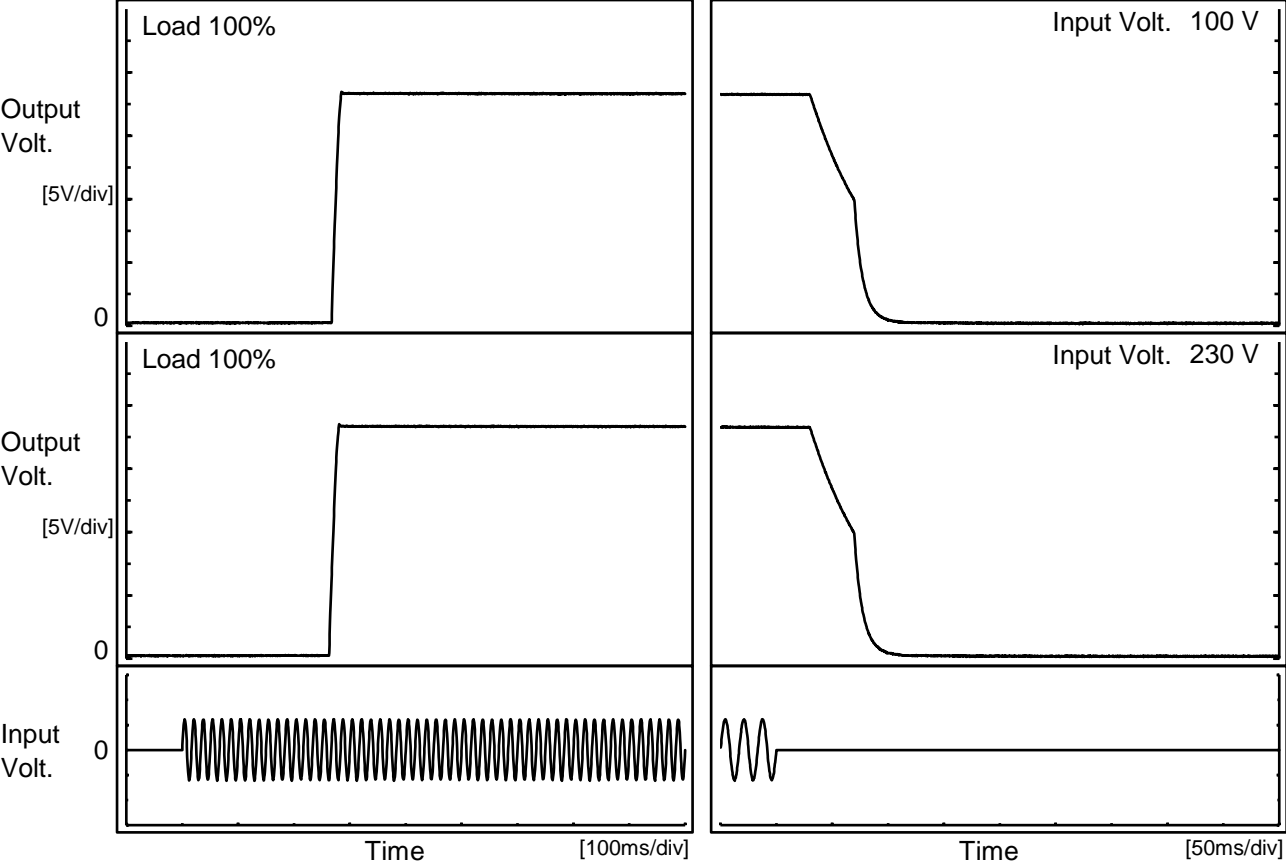
Model	PDA600F-36	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+36V18A	





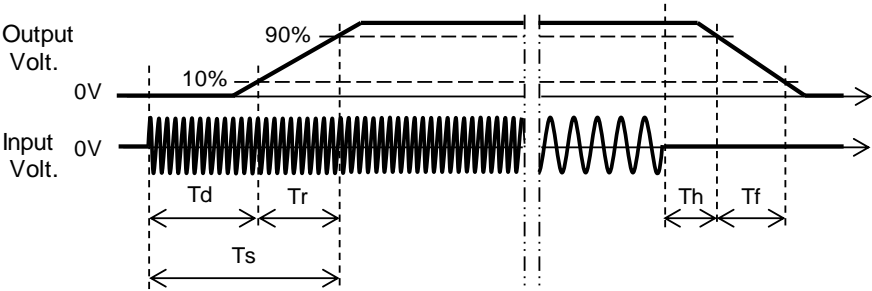
Model		PDA600F-36	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+36V18A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		269.0	12.0	281.0	37.5	45.8
230 V		264.0	12.5	276.5	37.3	45.8



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Model	PDA600F-36																																		
Item	Hold-Up Time	Temperature	25°C																																
		Testing Circuitry	Figure A																																
Object	+36V18A																																		
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> <div><div>Hold-Up Time [ms]</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><div>Input Voltage [V]</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>66</td><td>38</td></tr><tr><td>90</td><td>66</td><td>38</td></tr><tr><td>100</td><td>66</td><td>38</td></tr><tr><td>120</td><td>66</td><td>38</td></tr><tr><td>200</td><td>66</td><td>38</td></tr><tr><td>230</td><td>66</td><td>38</td></tr><tr><td>264</td><td>66</td><td>38</td></tr><tr><td>280</td><td>65</td><td>38</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	66	38	90	66	38	100	66	38	120	66	38	200	66	38	230	66	38	264	66	38	280	65	38	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
85	66	38																																	
90	66	38																																	
100	66	38																																	
120	66	38																																	
200	66	38																																	
230	66	38																																	
264	66	38																																	
280	65	38																																	
--	-	-																																	
<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></div>																																			

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<div>LOREL</div>																																																						
Model	PDA600F-36																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+36V18A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<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><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div><div>0</div><div>4</div><div>8</div><div>12</div><div>16</div><div>20</div></div><div><div>Load Current [A]</div></div></div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		<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>3.0</td><td>139</td><td>196</td><td>197</td></tr><tr><td>6.0</td><td>47</td><td>90</td><td>97</td></tr><tr><td>9.0</td><td>23</td><td>55</td><td>63</td></tr><tr><td>12.0</td><td>22</td><td>48</td><td>48</td></tr><tr><td>15.0</td><td>17</td><td>37</td><td>37</td></tr><tr><td>18.0</td><td>17</td><td>30</td><td>30</td></tr><tr><td>19.8</td><td>17</td><td>27</td><td>27</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]	0.0	-	-	-	3.0	139	196	197	6.0	47	90	97	9.0	23	55	63	12.0	22	48	48	15.0	17	37	37	18.0	17	30	30	19.8	17	27	27	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	-	-	-																																																			
3.0	139	196	197																																																			
6.0	47	90	97																																																			
9.0	23	55	63																																																			
12.0	22	48	48																																																			
15.0	17	37	37																																																			
18.0	17	30	30																																																			
19.8	17	27	27																																																			
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Model		PDA600F-36		Temperature Testing Circuitry	25°C Figure A																																												
Item		Overcurrent Protection																																															
Object		+36V18A																																															
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 21.6V 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>34.2</td><td>21.37</td><td>21.36</td></tr><tr><td>32.4</td><td>21.21</td><td>21.19</td></tr><tr><td>28.8</td><td>21.80</td><td>21.79</td></tr><tr><td>25.2</td><td>22.12</td><td>22.12</td></tr><tr><td>21.6</td><td>22.43</td><td>22.43</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]	34.2	21.37	21.36	32.4	21.21	21.19	28.8	21.80	21.79	25.2	22.12	22.12	21.6	22.43	22.43	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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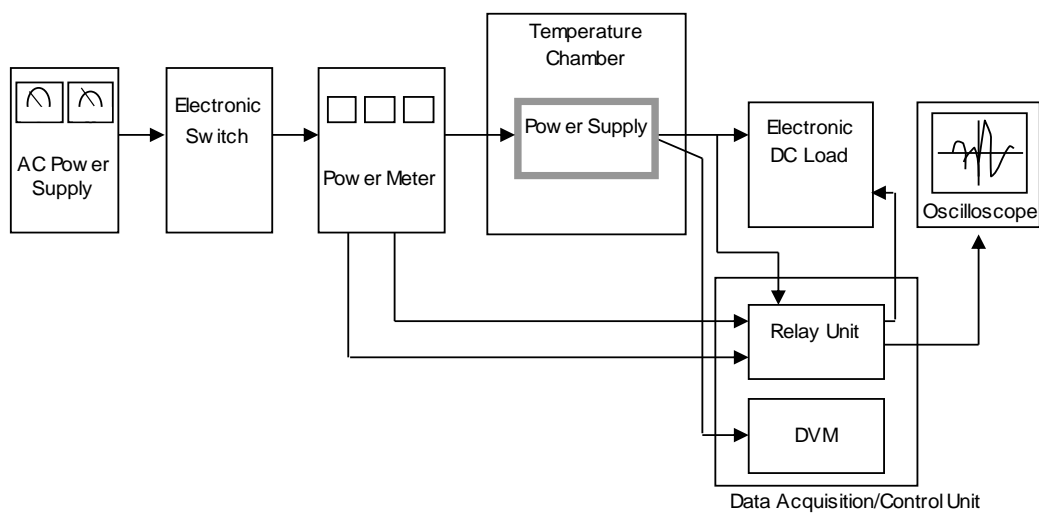


Figure A

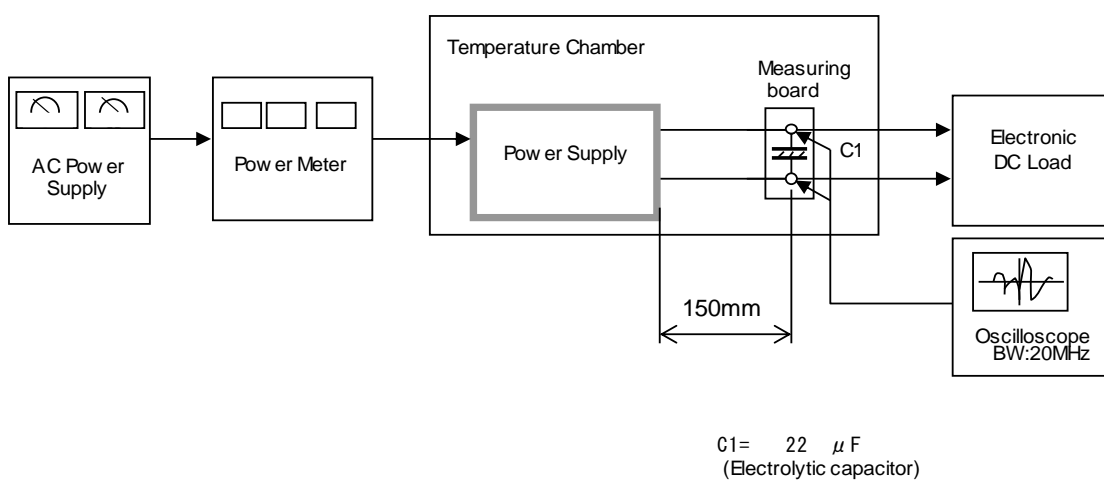


Figure B

