

TEST DATA OF PDA150F-5

Regulated DC Power Supply
December 13, 2024

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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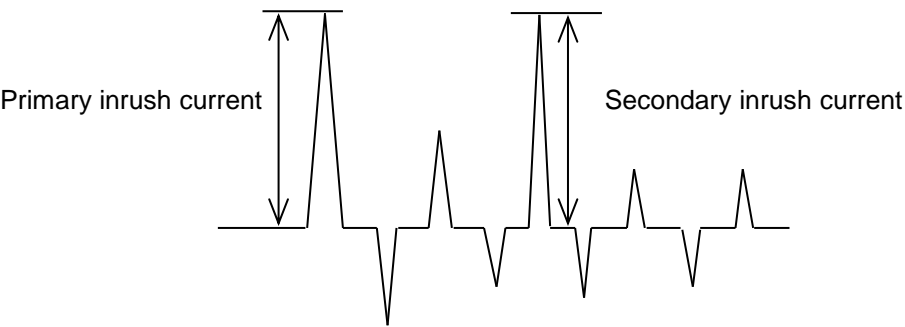
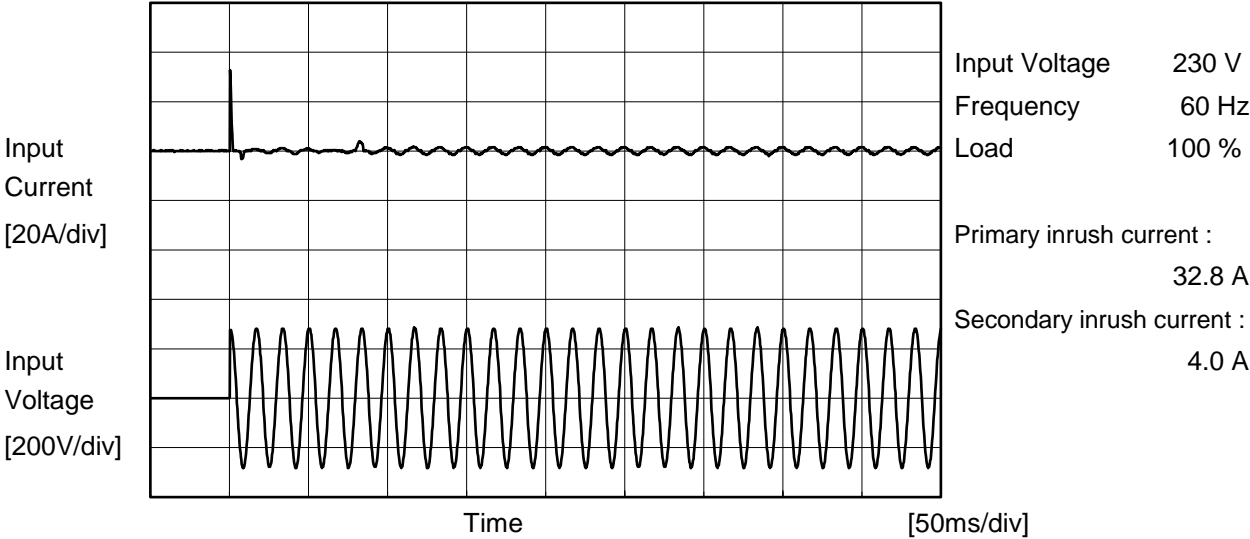
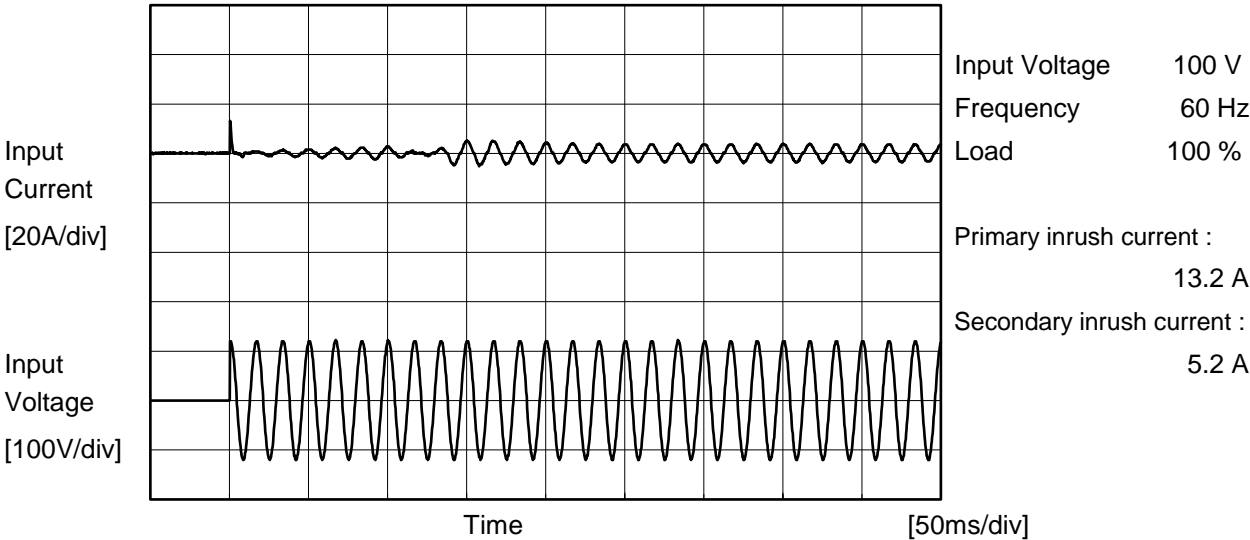
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BS-12019

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Model		PDA150F-5	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PDA150F-5	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	0.15	0.37	0.39	Operation
		One of phases	0.28	0.71	0.74	Stand by
IEC62368-1	Figure C-2	Both phases	0.14	0.36	0.38	Operation
		One of phases	0.27	0.69	0.72	Stand by
	Figure C-3	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.27	0.68	0.71	Stand by

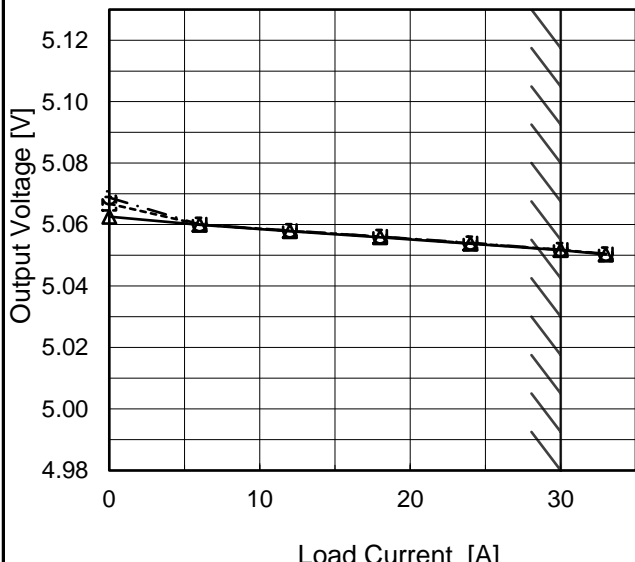
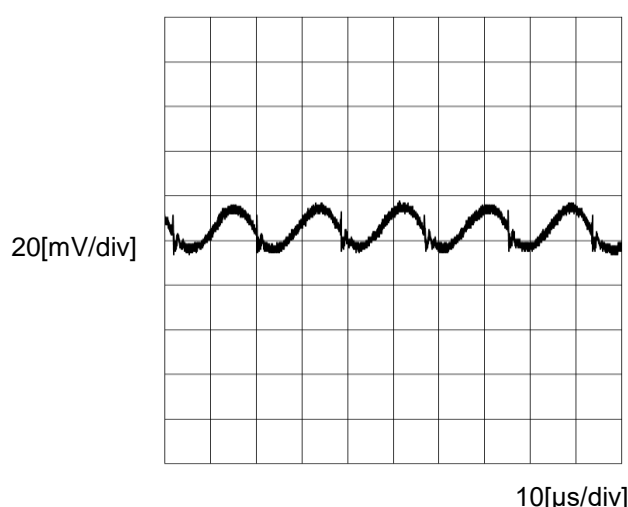
The value for "One of phases" is the reference value only.

2.Condition

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

Model		PDA150F-5	
Item		Line Regulation	
Object		+5V30A	
1.Graph		2.Values	
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COSEL

Model	PDA150F-5																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+5V30A	Testing Circuitry	Figure A																																																			
1.Graph <div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 200V</div><div>-·-○-·- Input Volt. 230V</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>0.00</td><td>5.063</td><td>5.067</td><td>5.069</td></tr><tr><td>6.00</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>12.00</td><td>5.058</td><td>5.058</td><td>5.058</td></tr><tr><td>18.00</td><td>5.056</td><td>5.056</td><td>5.056</td></tr><tr><td>24.00</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>30.00</td><td>5.052</td><td>5.052</td><td>5.052</td></tr><tr><td>33.00</td><td>5.050</td><td>5.050</td><td>5.051</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><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]	0.00	5.063	5.067	5.069	6.00	5.060	5.060	5.060	12.00	5.058	5.058	5.058	18.00	5.056	5.056	5.056	24.00	5.054	5.054	5.054	30.00	5.052	5.052	5.052	33.00	5.050	5.050	5.051	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+5V30A	Testing Circuitry	Figure B																																																			
1.Graph <div><div>Input Voltage 230V</div><div>Load 100%</div></div> 																																																						

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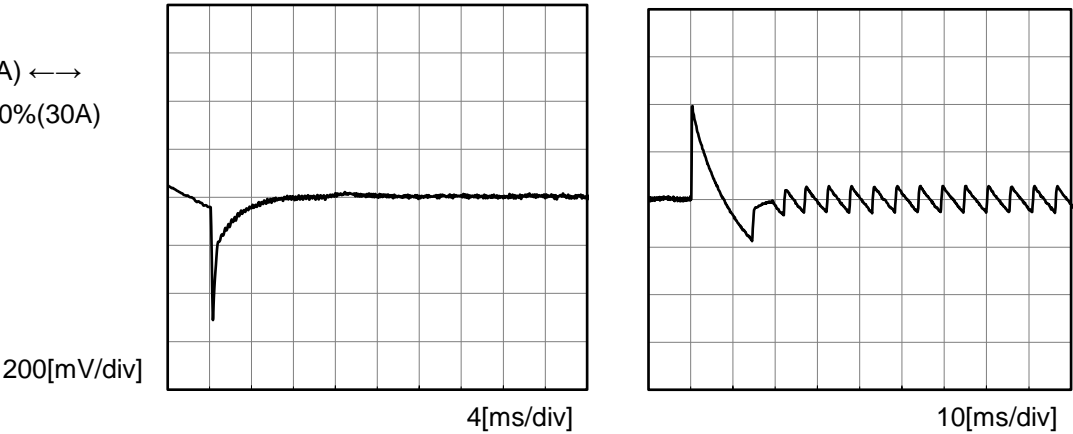


Model		PDA150F-5	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V30A	

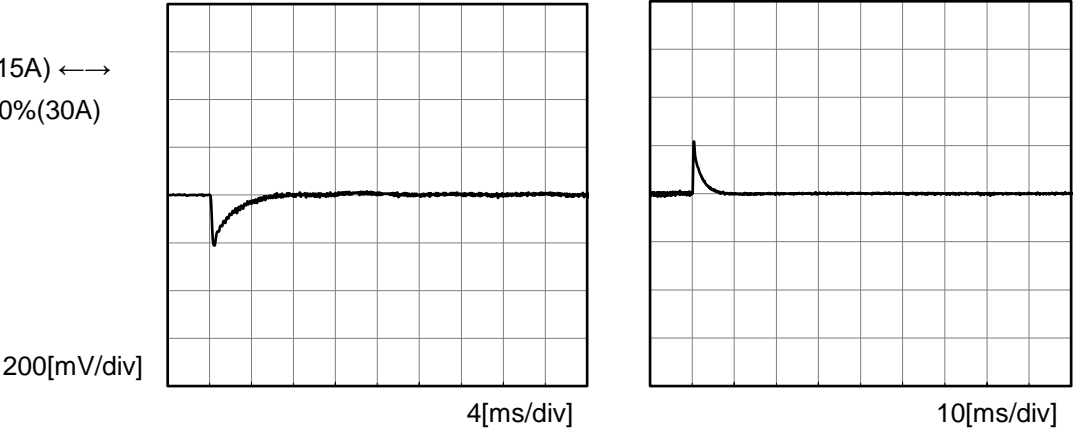
Input Volt. 230 V Response. t1=t2=50μs. Typ
Cycle 1000 ms



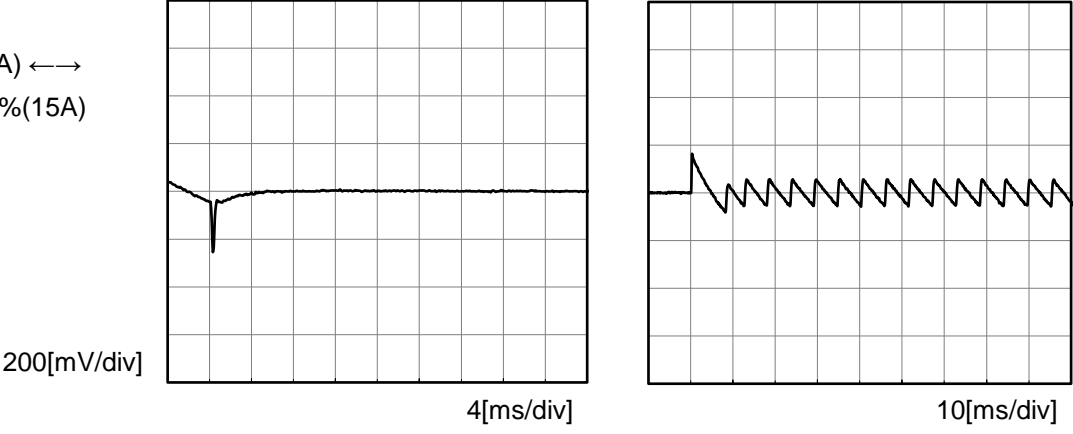
Load 0%(0A) ←→
Load 100%(30A)



Load 50%(15A) ←→
Load 100%(30A)

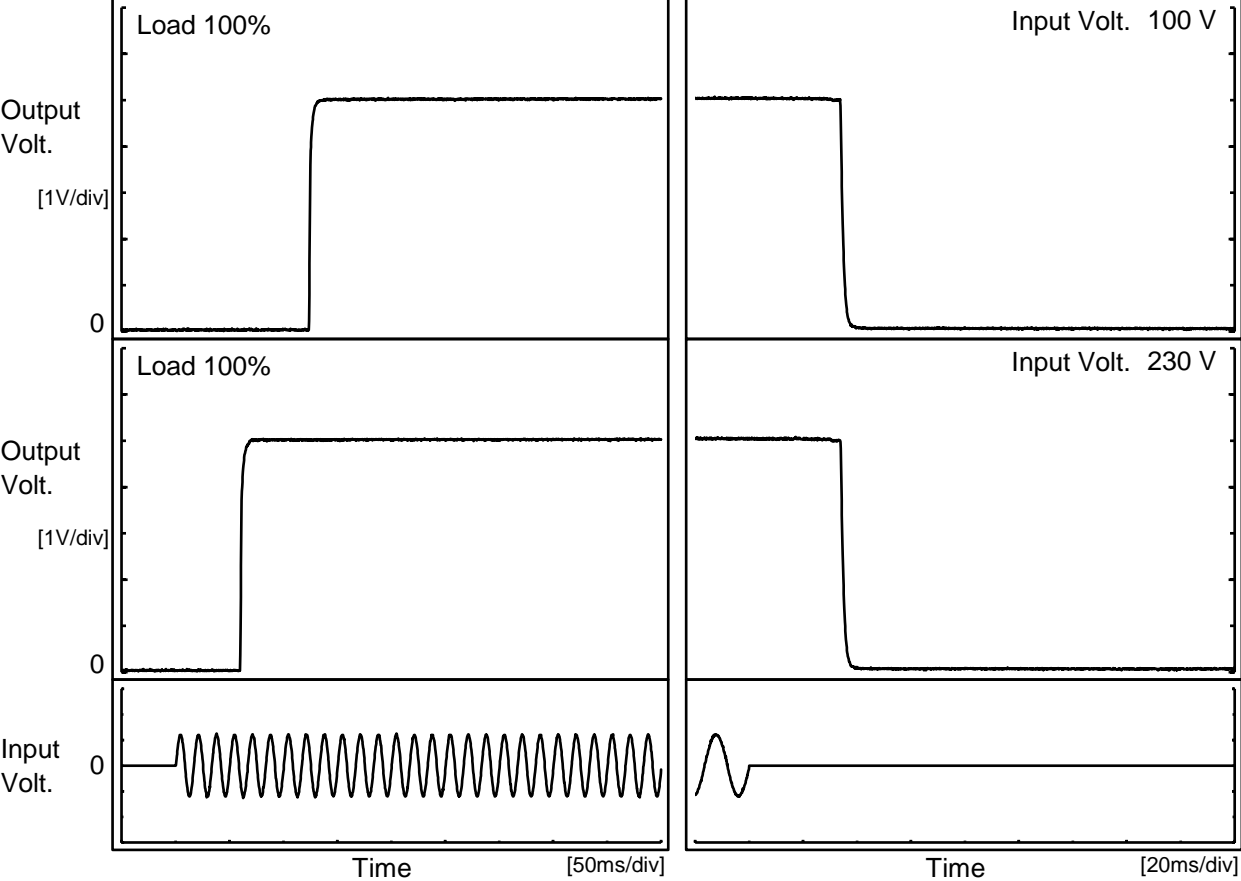


Load 0%(0A) ←→
Load 50%(15A)



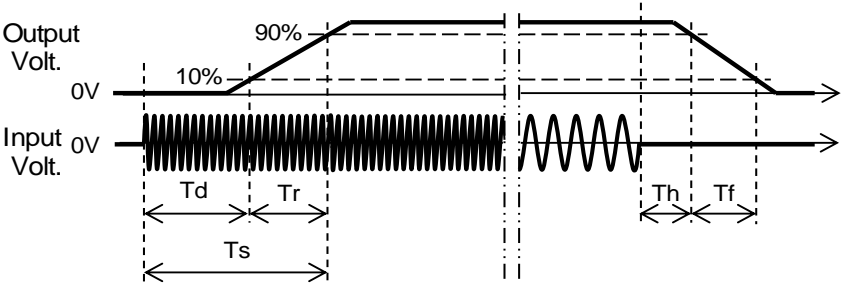
Model		PDA150F-5	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V30A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		124.0	3.0	127.0	33.9	2.1
230 V		60.3	3.3	63.6	34.0	2.1





Model		PDA150F-5	Temperature 25°C Testing Circuitry Figure A																													
Item		Hold-Up Time																														
Object		+5V30A																														
1.Graph			2.Values																													
<div><div><div>---□---</div> Load 50%</div><div><div>—△—</div> Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr></thead><tbody><tr><td>85</td><td>67</td><td>34</td></tr><tr><td>90</td><td>67</td><td>34</td></tr><tr><td>100</td><td>67</td><td>34</td></tr><tr><td>120</td><td>67</td><td>34</td></tr><tr><td>200</td><td>68</td><td>34</td></tr><tr><td>230</td><td>68</td><td>34</td></tr><tr><td>264</td><td>68</td><td>34</td></tr><tr><td>280</td><td>71</td><td>34</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note: Slanted line shows the range of the rated input voltage.</p></div>				Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	85	67	34	90	67	34	100	67	34	120	67	34	200	68	34	230	68	34	264	68	34	280	71	34	--	-
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																														
85	67	34																														
90	67	34																														
100	67	34																														
120	67	34																														
200	68	34																														
230	68	34																														
264	68	34																														
280	71	34																														
--	-	-																														

Hold-Up Time [ms]

1000

100

10

1

50

100

150

200

250

300

Input Voltage [V]

Model		PDA150F-5		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+5V30A																																																						
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> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>10</div><div>20</div><div>30</div></div><div><div>Load Current [A]</div></div></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>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>6.00</td><td>157</td><td>163</td><td>164</td></tr><tr><td>12.00</td><td>42</td><td>81</td><td>81</td></tr><tr><td>18.00</td><td>42</td><td>55</td><td>56</td></tr><tr><td>24.00</td><td>40</td><td>41</td><td>41</td></tr><tr><td>30.00</td><td>31</td><td>31</td><td>31</td></tr><tr><td>33.00</td><td>22</td><td>23</td><td>23</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><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]	0.00	-	-	-	6.00	157	163	164	12.00	42	81	81	18.00	42	55	56	24.00	40	41	41	30.00	31	31	31	33.00	22	23	23	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.00	-	-	-																																																					
6.00	157	163	164																																																					
12.00	42	81	81																																																					
18.00	42	55	56																																																					
24.00	40	41	41																																																					
30.00	31	31	31																																																					
33.00	22	23	23																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
<div>Note: Slanted line shows the range of the rated load current.</div>																																																								

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Model		PDA150F-5	
Item		Overcurrent Protection	
Object		+5V30A	

1.Graph

Input Volt. 100V

Input Volt. 230V

Output Voltage [V]

6

4

2

0

0

10

20

30

40

Load Current [A]

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

2.Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 230[V]
5.00	37.23	37.25
4.75	-	-
4.50	-	-
4.00	-	-
3.50	-	-
3.00	-	-
2.50	-	-
2.00	-	-
1.50	-	-
1.00	-	-
0.50	-	-
0.00	-	-

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Model	PDA150F-5		
Item	Ambient Temperature Drift	Testing Circuitry Figure A	
Object	+5V30A		
1.Values		Load 100%	
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-10	5.037	5.037	5.038
25	5.053	5.053	5.053
50	5.060	5.060	5.059
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+5V30A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	41	47	
25	41	53	
50	40	48	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+5V30A		
1.Values		Load 0%	
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 230V	
-20	6.74	6.74	
25	6.71	6.71	
50	6.71	6.71	

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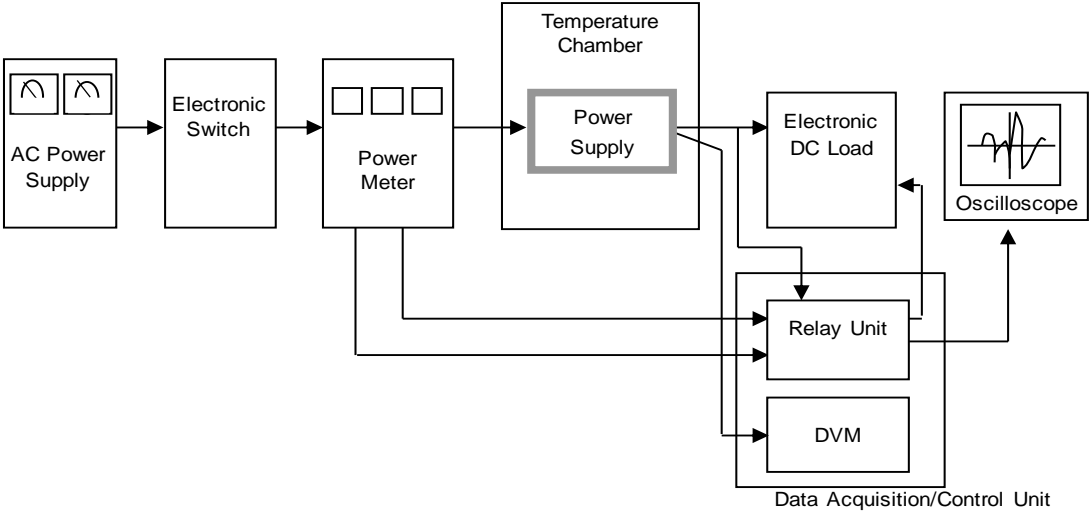


Figure A

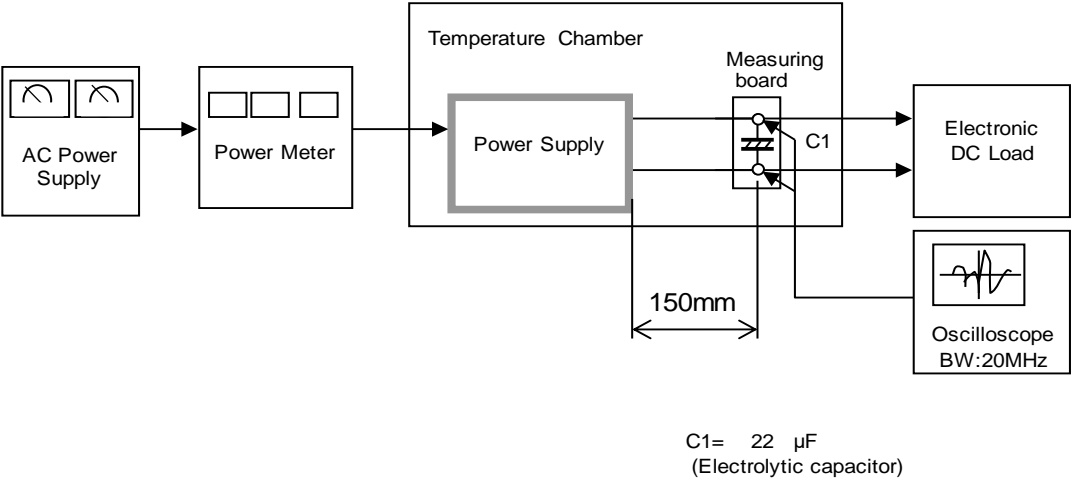


Figure B

