

TEST DATA OF PLA300F-24

Regulated DC Power Supply
August 28, 2017

Approved by : Yukihiro Takehashi
Yukihiro Takehashi Design Manager

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Atsushi Nishikawa Design Engineer

COSEL CO.,LTD.

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(Final Page 25)

Model PLA300F-24

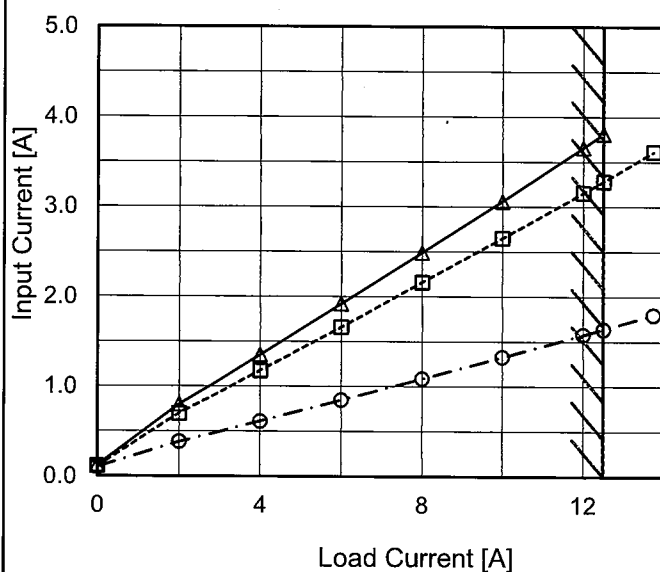
Item Input Current (by Load Current)

Object

Temperature 25°C
Testing Circuitry Figure A

1.Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 115V
 -·○-·- Input Volt. 230V



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. 115[V]	Input Volt. 230[V]
0.00	0.121	0.110	0.103
2.00	0.800	0.698	0.383
4.00	1.351	1.174	0.613
6.00	1.920	1.659	0.849
8.00	2.489	2.159	1.087
10.00	3.061	2.651	1.329
12.00	3.657	3.154	1.577
12.50	3.810	3.280	1.640
13.75	-	3.611	1.799
--	-	-	-
--	-	-	-

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Model		PLA300F-24		Temperature 25°C																																																				
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Model		PLA300F-24	
Item		Power Factor (by Input Voltage)	
Object			

1.Graph

Load 50%

Load 100%

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

50

100

150

200

250

300

Input Voltage [V]

Note: Slanted line shows the range of the rated input voltage.

2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.977	0.990 ※1
100	0.969	0.988 ※2
115	0.961	0.987
200	0.926	0.958
230	0.912	0.948
264	0.895	0.936
280	0.884	0.911
--	-	-
--	-	-

※1:Load 80%

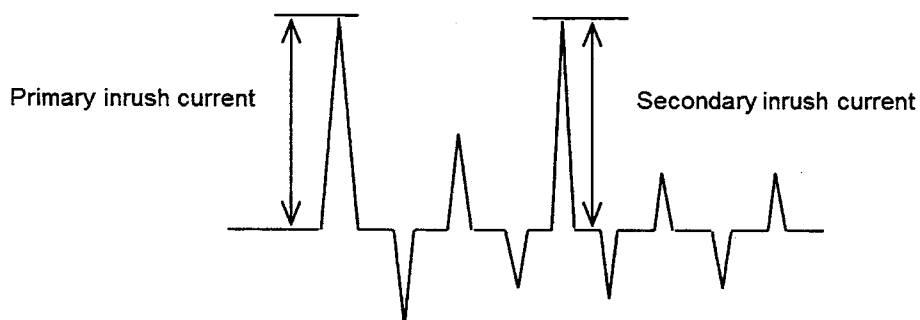
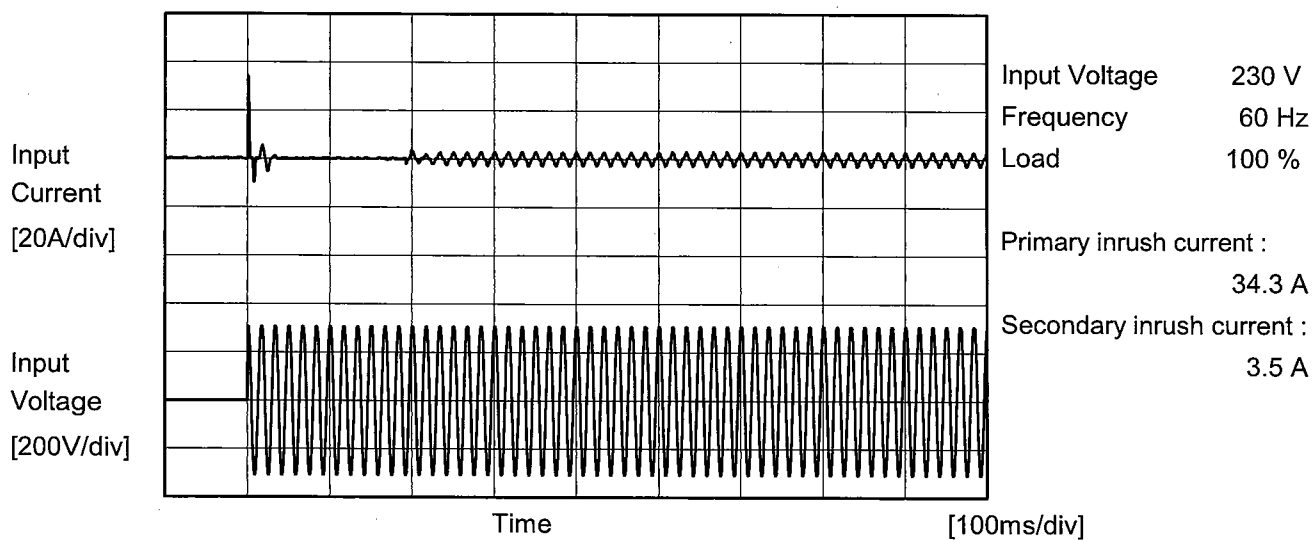
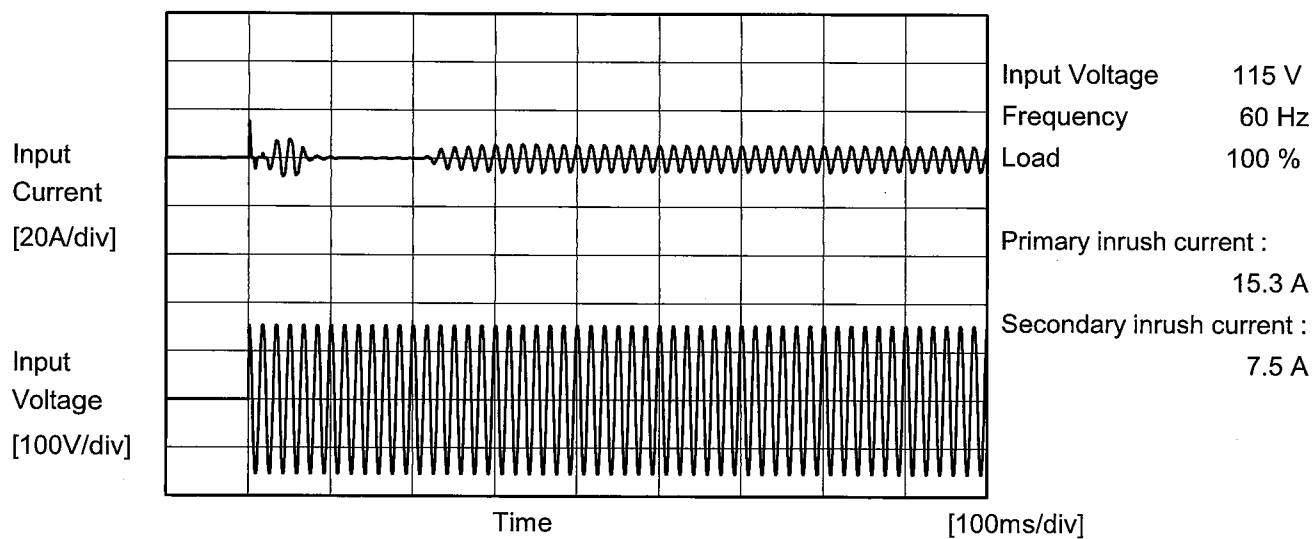
※2:Load 90%

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Model	PLA300F-24	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		



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		Temperature 25°C Testing Circuitry Figure B
Model	PLA300F-24	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	115 [V]	240 [V]	
DEN-AN	Both phases	0.24	0.28	0.44	Operation
	One of phases	0.30	0.30	0.60	Stand by
IEC60950-1	Both phases	0.17	0.18	0.40	Operation
	One of phases	0.24	0.28	0.60	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		PLA300F-24	
Item		Line Regulation	
Object		+24V12.5A	
1.Graph		2.Values	

□

Load 50%

△

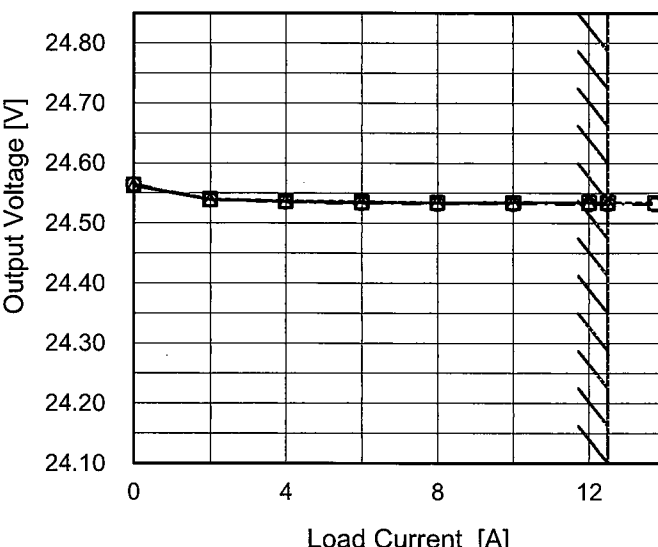
Load 100%

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
85	24.542	24.541 ※1
100	24.539	24.539 ※2
115	24.539	24.538
200	24.536	24.535
230	24.535	24.534
264	24.535	24.533
280	24.535	24.533
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※1:Load 80%

※2:Load 90%

Note: Slanted line shows the range of the rated input voltage.

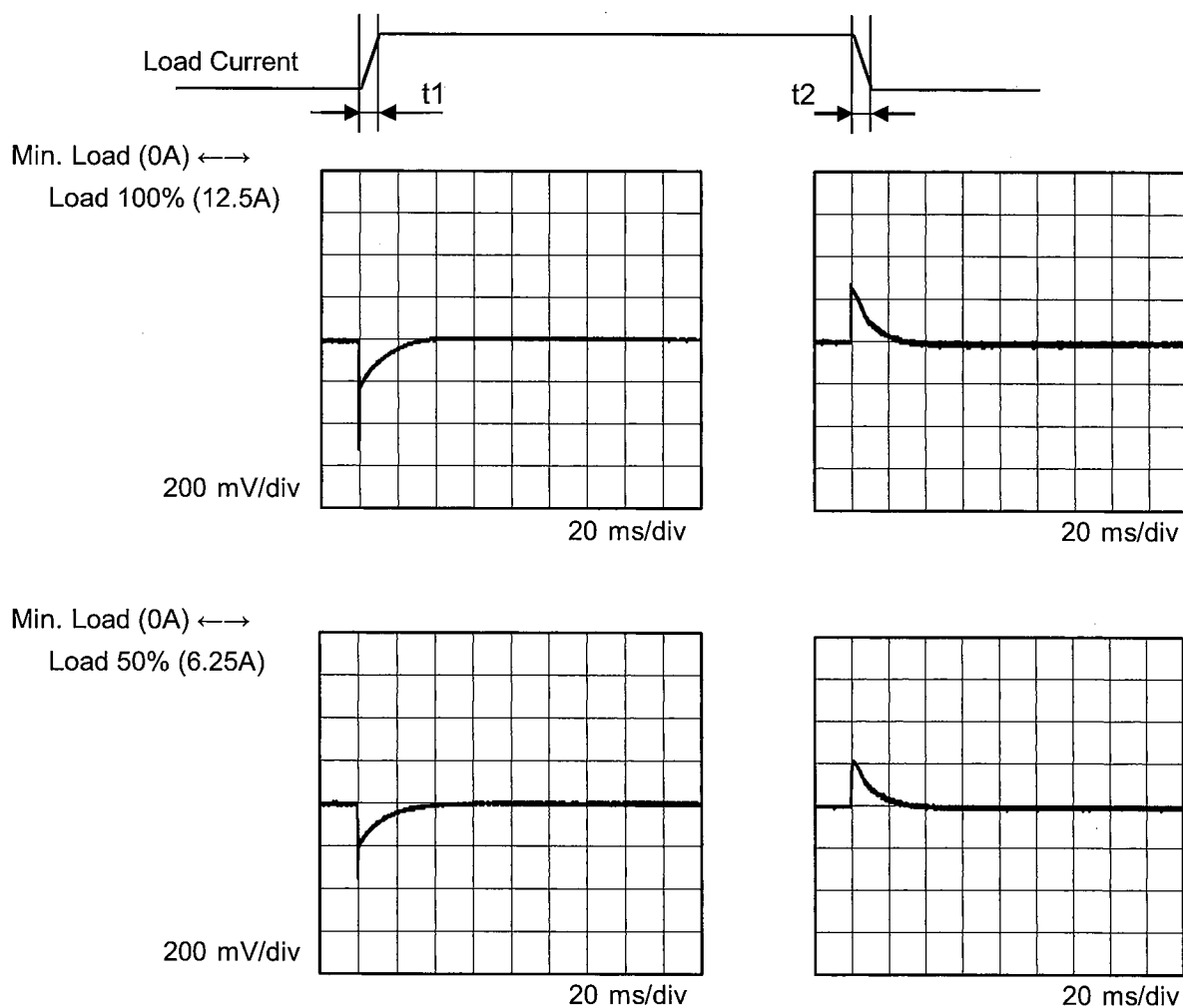
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1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>115V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div>  <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																				
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12.50	24.534	24.535	24.533																																																					
13.75	-	24.535	24.532																																																					
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Model	PLA300F-24	Temperature	25° C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+24V12.5A		

Input Volt. 115 V
Cycle 1000 ms

Response. $t_1=t_2=50\mu\text{s}$. Typ



COSEL

Model		PLA300F-24	
Item		Ripple Voltage (by Load Current)	
Object		+24V12.5A	
1.Graph		2.Values	

—△—

Input Volt. 115V

- - ○ - -

Input Volt. 230V

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COSEL

Model		PLA300F-24	
Item		Ripple-Noise	
Object		+24V12.5A	
1.Graph		2.Values	

—△—

Input Volt. 115V

---○---

Input Volt. 230V

Ripple-Noise [mV]

Load Current [A]

Measured by 20 MHz Oscilloscope.
Ripple-Nosie is shown as p-p in the figure below.
Note: Slanted line shows the range of the rated load current.

T1: Due to AC Input Line

T2: Due to Switching

Ripple-Noise [mVp-p]

T2

T1

Fig. Complex Ripple Wave Form

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 115 [V]	Input Volt. 230 [V]
0.00	35	35
2.00	40	40
4.00	40	40
6.00	45	45
8.00	50	50
10.00	55	55
12.00	60	60
12.50	70	70
13.75	75	75
--	-	-
--	-	-

COSEL

Model		PLA300F-24	Testing Circuitry Figure C																																																											
Item		Ripple Voltage (by Ambient Temp.)																																																												
Object		+24V12.5A																																																												
1.Graph			2.Values																																																											
<div><div><div>---□---</div><div>Input Volt. 115V</div><div>—△—</div><div>Input Volt. 230V</div></div><div><table border="1"><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Ambient Temperature [°C]</th><th>115V Input Ripple [mV]</th><th>230V Input Ripple [mV]</th></tr></thead><tbody><tr><td>-30</td><td>70</td><td>-</td></tr><tr><td>-10</td><td>60</td><td>60</td></tr><tr><td>0</td><td>50</td><td>50</td></tr><tr><td>25</td><td>30</td><td>30</td></tr><tr><td>50</td><td>20</td><td>20</td></tr><tr><td>60</td><td>20</td><td>20</td></tr></tbody></table></div></div> <div>Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated load current.</div>			Ambient Temperature [°C]	115V Input Ripple [mV]	230V Input Ripple [mV]	-30	70	-	-10	60	60	0	50	50	25	30	30	50	20	20	60	20	20	<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 115 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>-30</td><td>70</td><td>70</td></tr><tr><td>-10</td><td>60</td><td>60</td></tr><tr><td>0</td><td>50</td><td>50</td></tr><tr><td>25</td><td>30</td><td>30</td></tr><tr><td>50</td><td>20</td><td>20</td></tr><tr><td>60</td><td>20</td><td>20</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>	Ambient Temperature [°C]	Ripple Voltage [mV]		Input Volt. 115 [V]	Input Volt. 230 [V]	-30	70	70	-10	60	60	0	50	50	25	30	30	50	20	20	60	20	20	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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Model		PLA300F-24	
Item		Ambient Temperature Drift	
Object		+24V12.5A	
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[V]</div><div>24.80</div><div>24.70</div><div>24.60</div><div>24.50</div><div>24.40</div><div>24.30</div><div>24.20</div><div>24.10</div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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Model		PLA300F-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+24V12.5A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10 - 50°C

Input Voltage : 115 - 264V

Load Current : 0 - 12.5A

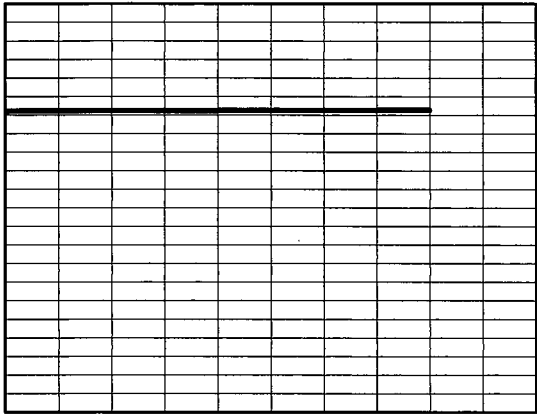
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	25	230	0	24.565	±41	±0.2
Minimum Voltage	-10	230	12.5	24.484		

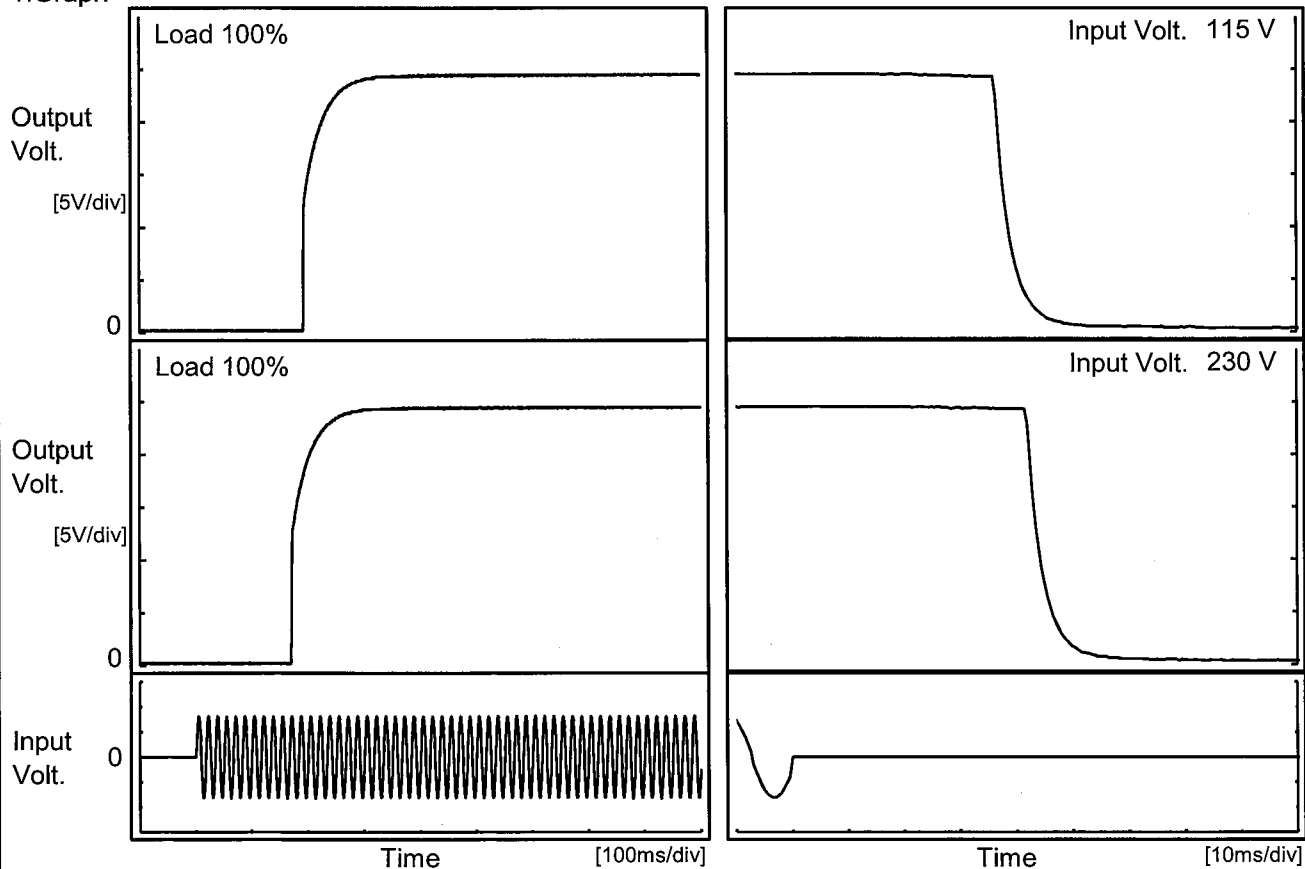


Model		PLA300F-24	Temperature		25°C																						
Item		Time Lapse Drift	Testing Circuitry		Figure A																						
Object		+24V12.5A																									
1.Graph			2.Values																								
<div><div>Output Voltage [V]</div><div></div><div>Time [H]</div><div>Input Volt. 230V</div><div>Load 100%</div></div>			<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>24.516</td></tr><tr><td>0.5</td><td>24.529</td></tr><tr><td>1.0</td><td>24.529</td></tr><tr><td>2.0</td><td>24.530</td></tr><tr><td>3.0</td><td>24.530</td></tr><tr><td>4.0</td><td>24.532</td></tr><tr><td>5.0</td><td>24.532</td></tr><tr><td>6.0</td><td>24.532</td></tr><tr><td>7.0</td><td>24.533</td></tr><tr><td>8.0</td><td>24.533</td></tr></table>			Time since start [H]	Output Voltage [V]	0.0	24.516	0.5	24.529	1.0	24.529	2.0	24.530	3.0	24.530	4.0	24.532	5.0	24.532	6.0	24.532	7.0	24.533	8.0	24.533
Time since start [H]	Output Voltage [V]																										
0.0	24.516																										
0.5	24.529																										
1.0	24.529																										
2.0	24.530																										
3.0	24.530																										
4.0	24.532																										
5.0	24.532																										
6.0	24.532																										
7.0	24.533																										
8.0	24.533																										
* The characteristic of AC115V is equal.																											

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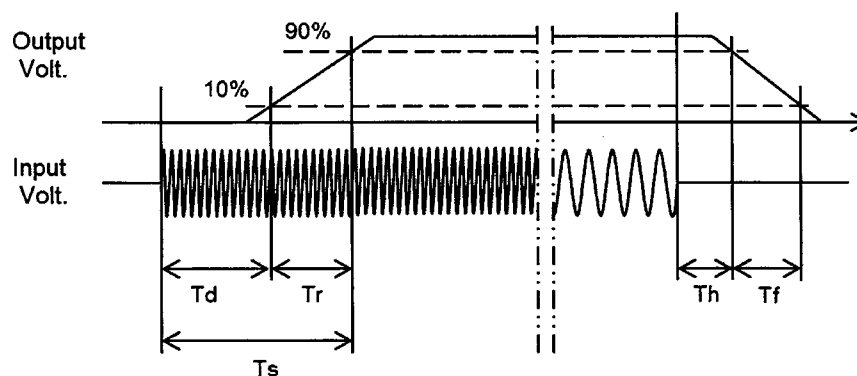
Model	PLA300F-24	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+24V12.5A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		193.5	49.0	242.5	36.5	6.0
230 V		171.5	49.0	220.5	42.0	6.0



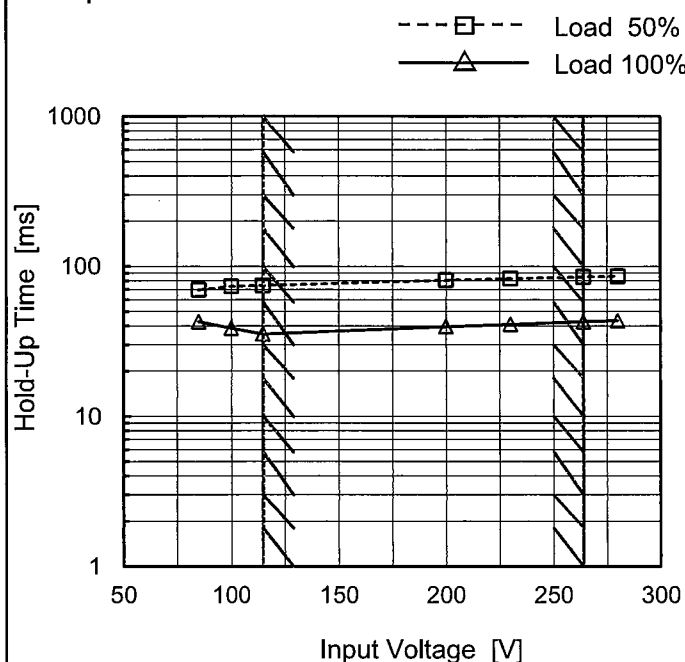
Model PLA300F-24

Item Hold-Up Time

Object +24V12.5A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



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.

2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	70	43 ※1
100	74	39 ※2
115	75	36
200	81	40
230	83	41
264	85	43
280	86	44
--	-	-
--	-	-

※1: Load 80%

※2: Load 90%

Model	PLA300F-24																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+24V12.5A	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>115V</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> <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">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>2.00</td><td>196</td><td>198</td><td>231</td></tr><tr><td>4.00</td><td>112</td><td>113</td><td>127</td></tr><tr><td>6.00</td><td>77</td><td>77</td><td>86</td></tr><tr><td>8.00</td><td>55</td><td>56</td><td>65</td></tr><tr><td>10.00</td><td>43</td><td>47</td><td>52</td></tr><tr><td>12.00</td><td>35</td><td>36</td><td>42</td></tr><tr><td>12.50</td><td>31</td><td>34</td><td>40</td></tr><tr><td>13.75</td><td>-</td><td>30</td><td>36</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. 115[V]	Input Volt. 230[V]	0.00	-	-	-	2.00	196	198	231	4.00	112	113	127	6.00	77	77	86	8.00	55	56	65	10.00	43	47	52	12.00	35	36	42	12.50	31	34	40	13.75	-	30	36	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]																																																			
0.00	-	-	-																																																			
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6.00	77	77	86																																																			
8.00	55	56	65																																																			
10.00	43	47	52																																																			
12.00	35	36	42																																																			
12.50	31	34	40																																																			
13.75	-	30	36																																																			
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Model

PLA300F-24

Item

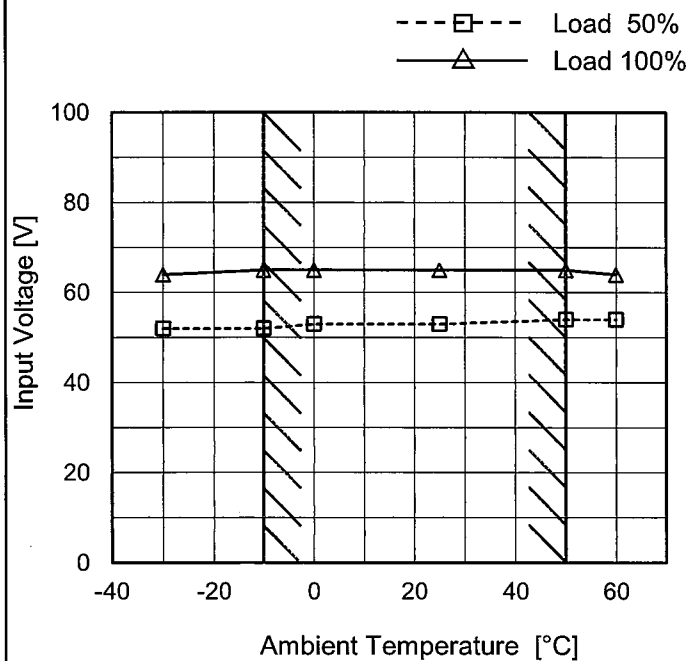
Minimum Input Voltage
for Regulated Output Voltage

Object

+24V12.5A

Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	52	64
-10	52	65
0	53	65
25	53	65
50	54	65
60	54	64
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

Model		PLA300F-24		Temperature 25°C																																													
Item		Overcurrent Protection		Testing Circuitry Figure A																																													
Object		+24V12.5A																																															
1.Graph				2.Values																																													
<div><div><div></div><div>Input Volt. 115V</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">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>22.8</td><td>14.88</td><td>14.84</td></tr><tr><td>21.6</td><td>14.92</td><td>14.89</td></tr><tr><td>19.2</td><td>15.02</td><td>15.00</td></tr><tr><td>16.8</td><td>15.11</td><td>15.09</td></tr><tr><td>14.4</td><td>15.18</td><td>15.14</td></tr><tr><td>12.0</td><td>15.21</td><td>15.17</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. 115[V]	Input Volt. 230[V]	22.8	14.88	14.84	21.6	14.92	14.89	19.2	15.02	15.00	16.8	15.11	15.09	14.4	15.18	15.14	12.0	15.21	15.17	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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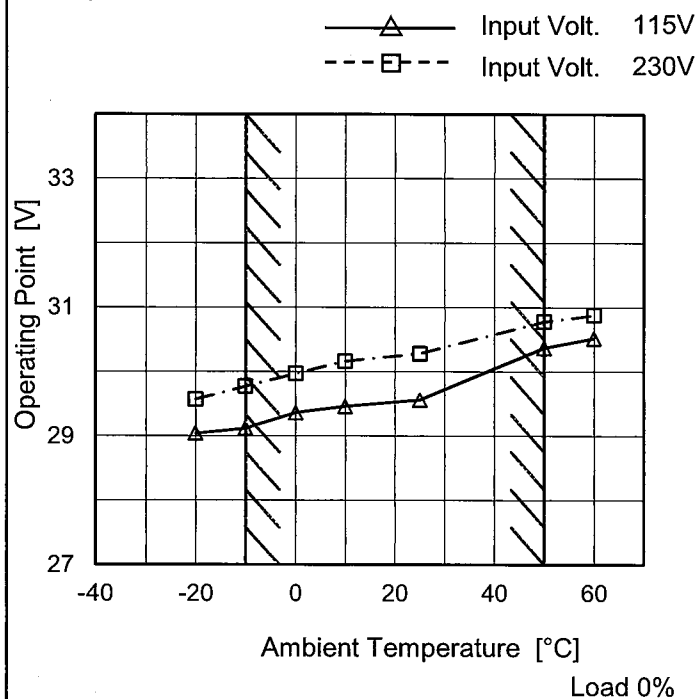
Model PLA300F-24

Item Overvoltage Protection

Object +24V12.5A

Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 115[V]	Input Volt. 230[V]
-20	29.04	29.57
-10	29.12	29.77
0	29.36	29.97
10	29.46	30.16
25	29.56	30.28
50	30.37	30.78
60	30.52	30.88
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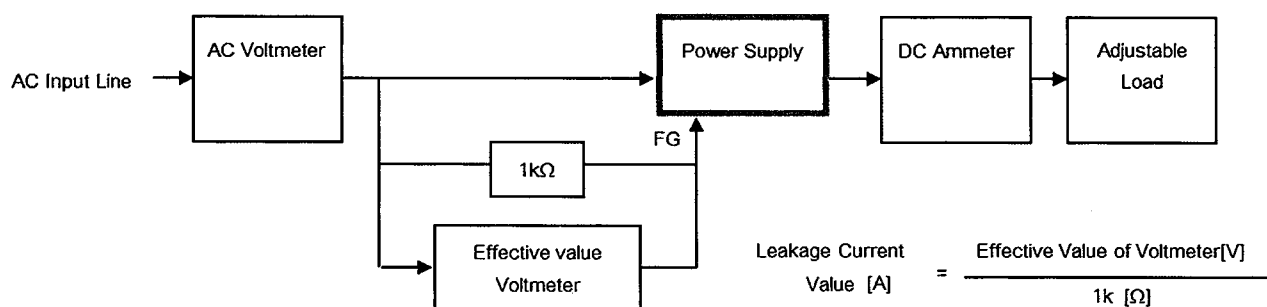
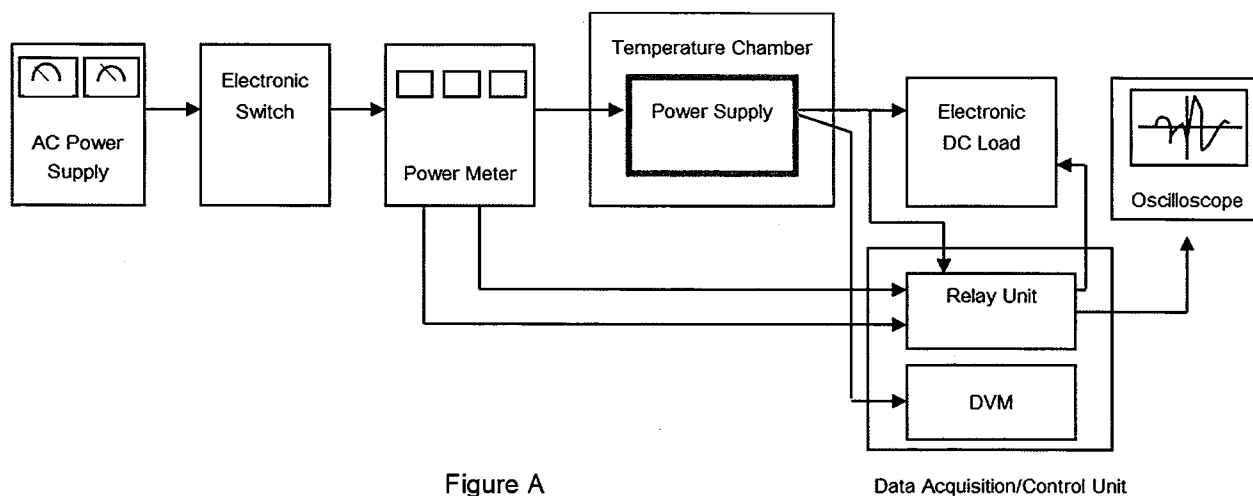


Figure B (DEN-AN)

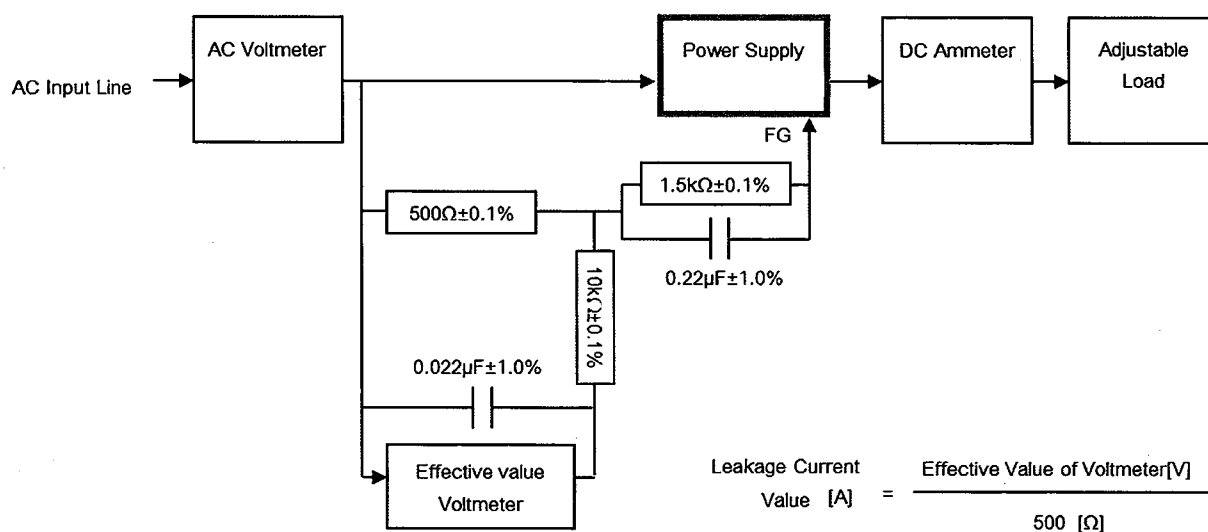


Figure B (IEC60950-1)

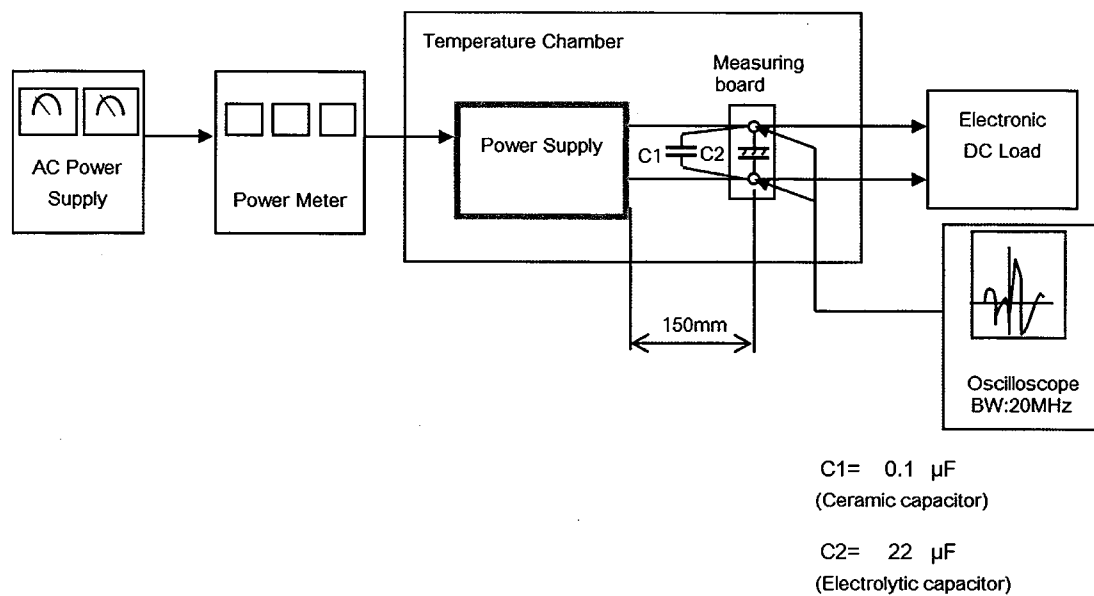


Figure C