

# TEST DATA OF PLA600F-36

Regulated DC Power Supply  
August 19, 2011

Approved by : Katsumi Ishikawa  
Katsumi Ishikawa Design Manager

Prepared by : Shintaro Oki  
Shintaro Oki Design Engineer

**COSEL CO.,LTD.**

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BC-10615

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Model		PLA600F-36		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Input Power (by Load Current)																																																						
Object																																																								
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 115V</div> <div><div>-·-○-·-</div>Input Volt. 230V</div> <p>Input Power [W]</p> <p>Load Current [A]</p>		2.Values																																																				
				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</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>15.5</td><td>15.6</td><td>16.0</td></tr><tr><td>3.00</td><td>152.1</td><td>151.1</td><td>149.0</td></tr><tr><td>6.00</td><td>268.5</td><td>267.0</td><td>262.0</td></tr><tr><td>9.00</td><td>390.0</td><td>385.2</td><td>377.0</td></tr><tr><td>12.00</td><td>512.0</td><td>508.0</td><td>494.0</td></tr><tr><td>15.00</td><td>637.0</td><td>631.0</td><td>611.0</td></tr><tr><td>16.70</td><td>709.0</td><td>701.0</td><td>678.0</td></tr><tr><td>18.37</td><td>-</td><td>772.0</td><td>745.0</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 Power [W]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	15.5	15.6	16.0	3.00	152.1	151.1	149.0	6.00	268.5	267.0	262.0	9.00	390.0	385.2	377.0	12.00	512.0	508.0	494.0	15.00	637.0	631.0	611.0	16.70	709.0	701.0	678.0	18.37	-	772.0	745.0	--	-	-	-	--	-	-	-	--	-	-	-
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		Note: Slanted line shows the range of the rated load current.																																																						

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Object																																			
1.Graph			2.Values																																
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Input Voltage [V]	Efficiency [%]																																		
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</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>3.00</td><td>71.8</td><td>72.3</td><td>73.3</td></tr><tr><td>6.00</td><td>80.7</td><td>81.1</td><td>82.7</td></tr><tr><td>9.00</td><td>83.1</td><td>84.1</td><td>85.9</td></tr><tr><td>12.00</td><td>84.3</td><td>84.9</td><td>87.3</td></tr><tr><td>15.00</td><td>84.6</td><td>85.4</td><td>88.2</td></tr><tr><td>16.70</td><td>84.6</td><td>85.6</td><td>88.5</td></tr><tr><td>18.37</td><td>-</td><td>85.4</td><td>88.5</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]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	-	-	-	3.00	71.8	72.3	73.3	6.00	80.7	81.1	82.7	9.00	83.1	84.1	85.9	12.00	84.3	84.9	87.3	15.00	84.6	85.4	88.2	16.70	84.6	85.6	88.5	18.37	-	85.4	88.5	--	-	-	-	--	-	-	-	--	-	-	-
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# COSEL

Model	PLA600F-36	Temperature	25°C																																
Item	Power Factor (by Input Voltage)	Testing Circuitry	Figure A																																
Object																																			
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<div><div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div><p>Power Factor</p><p>Input Voltage [V]</p><p>Note: Slanted line shows the range of the rated input voltage.</p></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>0.997</td><td>0.999 ※1</td></tr><tr><td>100</td><td>0.994</td><td>0.999 ※2</td></tr><tr><td>115</td><td>0.991</td><td>0.999</td></tr><tr><td>200</td><td>0.954</td><td>0.984</td></tr><tr><td>230</td><td>0.936</td><td>0.973</td></tr><tr><td>264</td><td>0.909</td><td>0.956</td></tr><tr><td>280</td><td>0.800</td><td>0.836</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> <div>※1: Load 80%</div> <div>※2: Load 90%</div>		Input Voltage [V]	Power Factor		Load 50%	Load 100%	85	0.997	0.999 ※1	100	0.994	0.999 ※2	115	0.991	0.999	200	0.954	0.984	230	0.936	0.973	264	0.909	0.956	280	0.800	0.836	--	-	-	--	-	-
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# COSEL

Model		PLA600F-36		Temperature Testing Circuitry	25°C Figure A
Item		Power Factor (by Load Current)			
Object					

1.Graph

—△—

Input Volt.

100V

---□---

Input Volt.

115V

---○---

Input Volt.

230V

Power Factor

1.0

0.8

0.6

0.4

0.2

0.0

0

4

8

12

16

20

Load Current [A]

2.Values

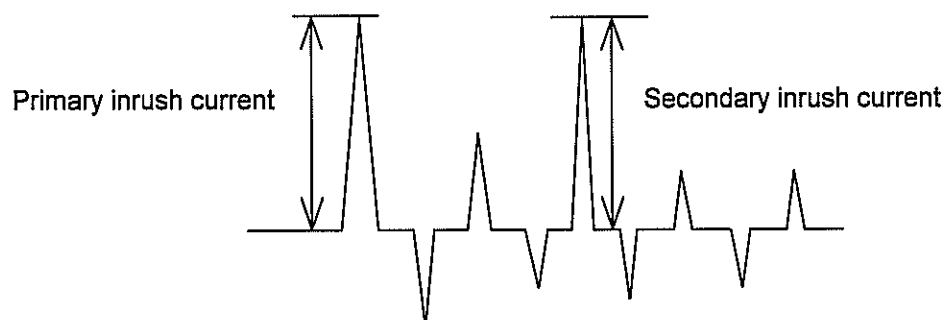
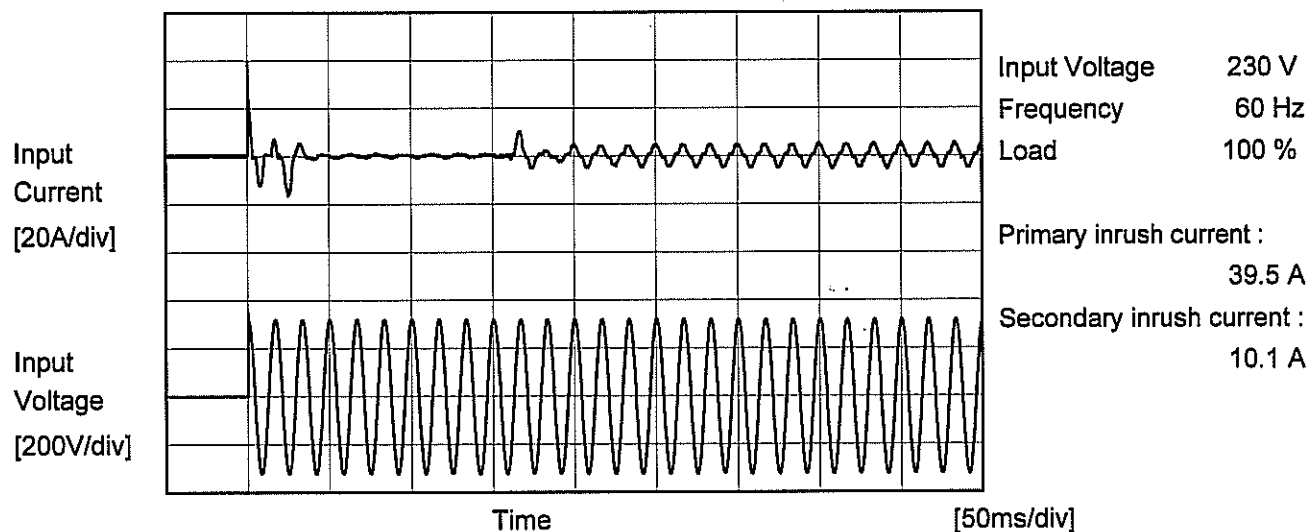
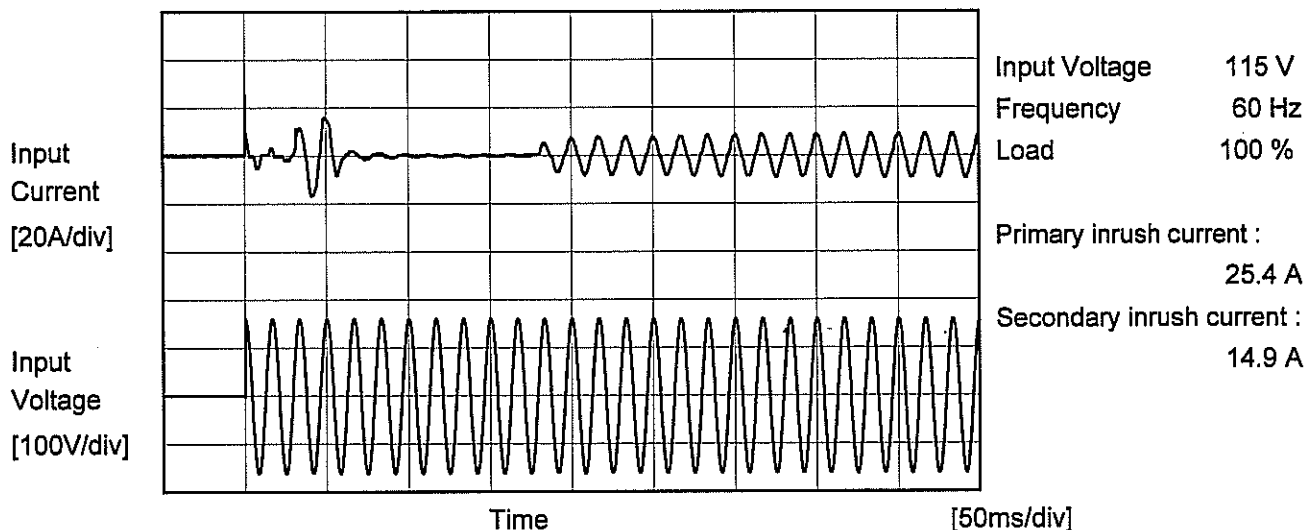
Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	0.721	0.645	0.235
3.00	0.964	0.956	0.837
6.00	0.988	0.981	0.907
9.00	0.995	0.991	0.940
12.00	0.998	0.996	0.959
15.00	0.999	0.998	0.968
16.70	0.999	0.999	0.973
18.37	-	0.999	0.976
--	-	-	-
--	-	-	-
--	-	-	-

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



# COSEL

Model	PLA600F-36	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	





Model		PLA600F-36	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object			

## 1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	115 [V]	240 [V]	
DEN-AN	Both phases	0.31	0.33	0.66	Operation
	One of phases	0.43	0.51	1.10	Stand by
IEC60950-1	Both phases	0.25	0.29	0.64	Operation
	One of phases	0.44	0.50	1.10	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		PLA600F-36		Temperature 25°C																															
Item		Line Regulation		Testing Circuitry Figure A																															
Object		+36V16.7A																																	
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>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>85</td><td>36.043</td><td>36.042 ※1</td></tr><tr><td>100</td><td>36.044</td><td>36.042 ※2</td></tr><tr><td>115</td><td>36.044</td><td>36.042</td></tr><tr><td>200</td><td>36.043</td><td>36.041</td></tr><tr><td>230</td><td>36.043</td><td>36.041</td></tr><tr><td>264</td><td>36.044</td><td>36.041</td></tr><tr><td>280</td><td>36.044</td><td>36.041</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>				Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	85	36.043	36.042 ※1	100	36.044	36.042 ※2	115	36.044	36.042	200	36.043	36.041	230	36.043	36.041	264	36.044	36.041	280	36.044	36.041	--	-	-	--	-	-		
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# COSEL

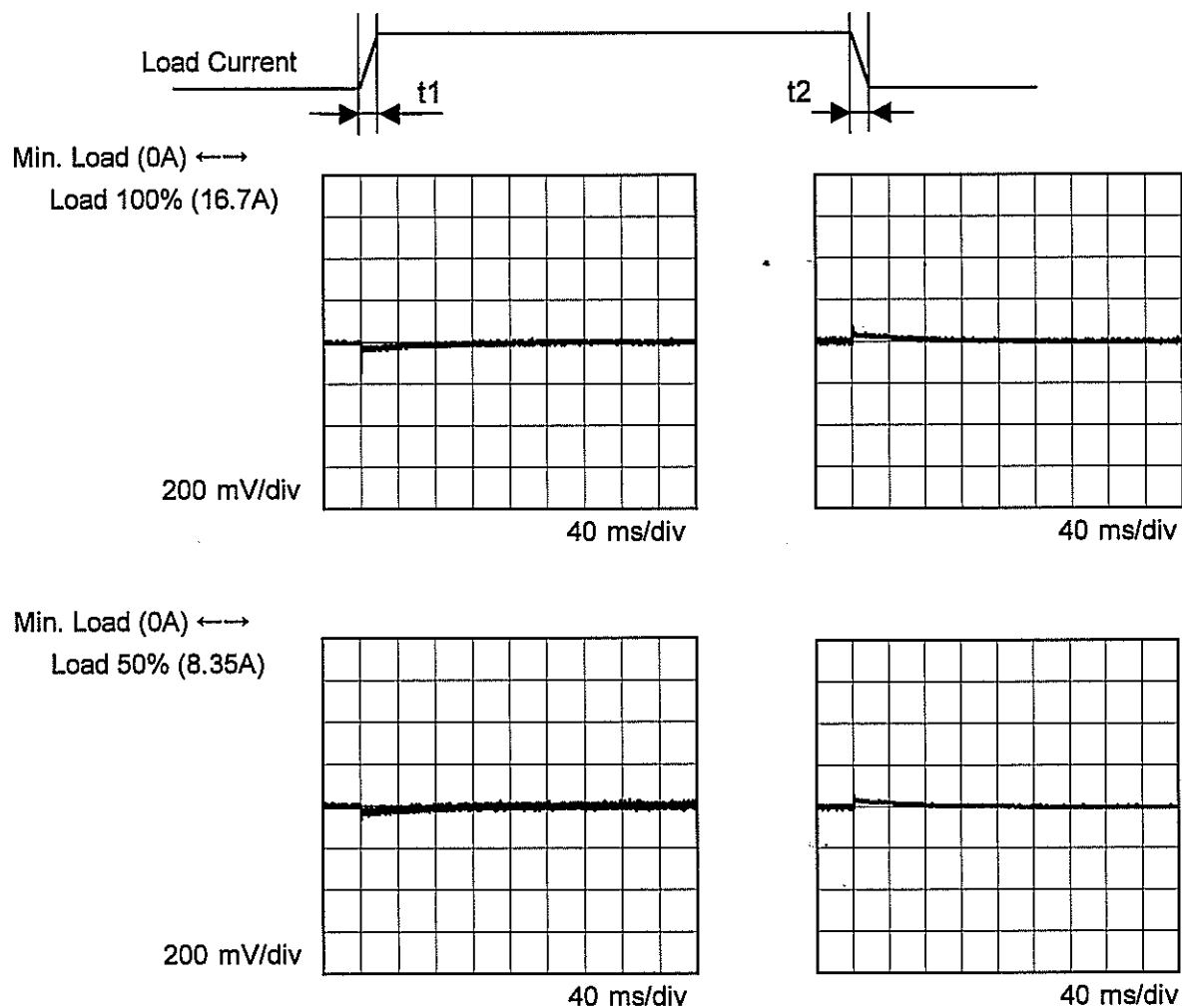
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<div><div><div><div><div></div><div></div></div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div><div></div><div></div></div><div>---□---</div><div>Input Volt.</div><div>115V</div></div><div><div><div></div><div></div></div><div>-·-○-·-</div><div>Input Volt.</div><div>230V</div></div></div><div><table><thead><tr><th>Load Current [A]</th><th>100V Input [V]</th><th>115V Input [V]</th><th>230V Input [V]</th></tr></thead><tbody><tr><td>0.00</td><td>36.047</td><td>36.048</td><td>36.048</td></tr><tr><td>3.00</td><td>36.043</td><td>36.044</td><td>36.043</td></tr><tr><td>6.00</td><td>36.042</td><td>36.043</td><td>36.042</td></tr><tr><td>9.00</td><td>36.042</td><td>36.042</td><td>36.042</td></tr><tr><td>12.00</td><td>36.041</td><td>36.042</td><td>36.041</td></tr><tr><td>15.00</td><td>36.040</td><td>36.041</td><td>36.041</td></tr><tr><td>16.70</td><td>36.040</td><td>36.040</td><td>36.041</td></tr><tr><td>18.37</td><td>-</td><td>36.040</td><td>36.040</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></div></div> <div><div>Note: Slanted line shows the range of the rated load current.</div></div>				Load Current [A]	100V Input [V]	115V Input [V]	230V Input [V]	0.00	36.047	36.048	36.048	3.00	36.043	36.044	36.043	6.00	36.042	36.043	36.042	9.00	36.042	36.042	36.042	12.00	36.041	36.042	36.041	15.00	36.040	36.041	36.041	16.70	36.040	36.040	36.041	18.37	-	36.040	36.040	--	-	-	-	--	-	-	-	--	-	-	-		
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# COSEL

Model	PLA600F-36	Temperature	25° C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+36V16.7A		

Input Volt. 115 V  
Cycle 1000 ms

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



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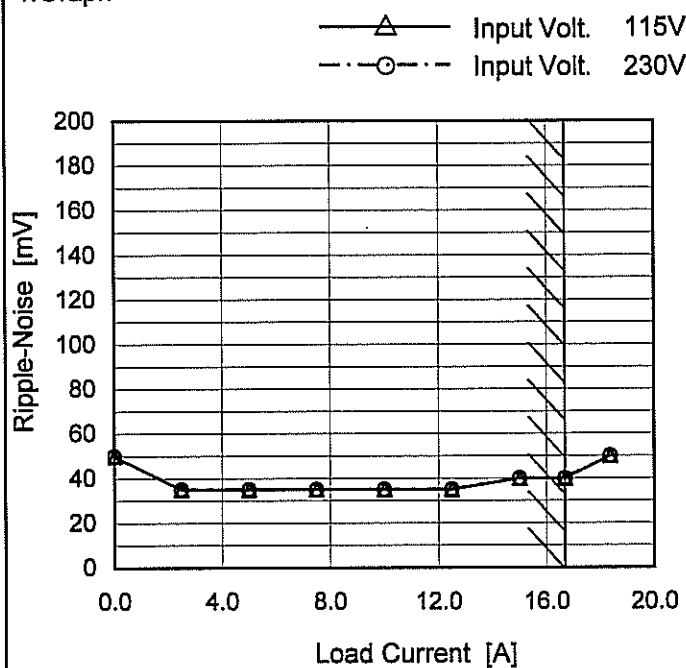
Model		PLA600F-36	Temperature25°C Testing CircuitryFigure C																																						
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<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 115 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>45</td><td>45</td></tr><tr><td>2.5</td><td>20</td><td>20</td></tr><tr><td>5.0</td><td>20</td><td>20</td></tr><tr><td>7.5</td><td>20</td><td>20</td></tr><tr><td>10.0</td><td>20</td><td>20</td></tr><tr><td>12.5</td><td>25</td><td>25</td></tr><tr><td>15.0</td><td>25</td><td>25</td></tr><tr><td>16.7</td><td>25</td><td>25</td></tr><tr><td>18.4</td><td>30</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>				Load Current [A]	Ripple Voltage [mV]		Input Volt. 115 [V]	Input Volt. 230 [V]	0.0	45	45	2.5	20	20	5.0	20	20	7.5	20	20	10.0	20	20	12.5	25	25	15.0	25	25	16.7	25	25	18.4	30	30	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
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16.7	25	25																																							
18.4	30	30																																							
--	-	-																																							
--	-	-																																							
<p>Measured by 20 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p>																																									
<div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><div><p>Ripple [mVp-p]</p><p>T1</p><p>T2</p></div></div>																																									
Fig. Complex Ripple Wave Form																																									

# COSEL

Model	PLA600F-36
Item	Ripple-Noise
Object	+36V16.7A

Temperature 25°C  
Testing Circuitry Figure C

## 1. Graph



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

## 2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 115 [V]	Input Volt. 230 [V]
0.0	50	50
2.5	35	35
5.0	35	35
7.5	35	35
10.0	35	35
12.5	35	35
15.0	40	40
16.7	40	40
18.4	50	50
--	-	-
--	-	-

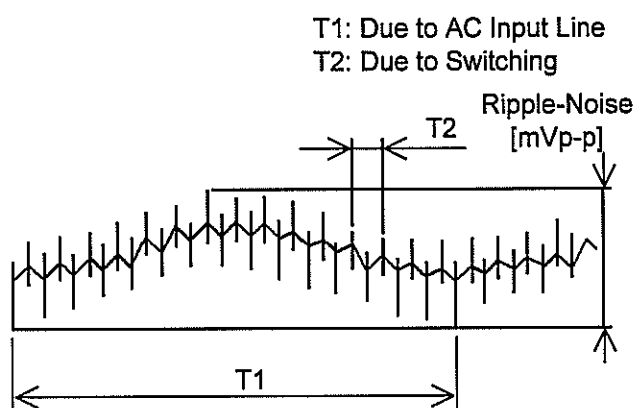
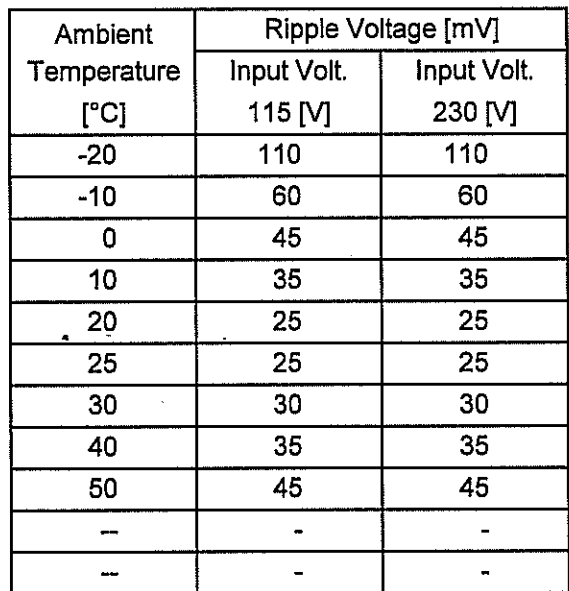


Fig. Complex Ripple Wave Form

Testing Circuitry Figure C

## 2.Values



Note: In case of Input Volt. 100V, Load 90%.  
Other case Load 100%.

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



Model	PLA600F-36																																																						
Item	Ambient Temperature Drift		Testing Circuitry    Figure A																																																				
Object	+36V16.7A																																																						
1.Graph		2.Values																																																					
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 115V</div></div><div><div>-·-○-·-</div><div>Input Volt. 230V</div></div></div> <div><div>Output Voltage [V]</div><div>Ambient Temperature [°C]</div></div> <div>Note: Slanted line shows the range of the rated ambient temperature.</div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>-20</td><td>36.067</td><td>36.067</td><td>36.066</td></tr><tr><td>-10</td><td>36.058</td><td>36.058</td><td>36.057</td></tr><tr><td>0</td><td>36.049</td><td>36.049</td><td>36.048</td></tr><tr><td>10</td><td>36.038</td><td>36.038</td><td>36.037</td></tr><tr><td>25</td><td>36.026</td><td>36.025</td><td>36.025</td></tr><tr><td>30</td><td>36.027</td><td>36.027</td><td>36.026</td></tr><tr><td>40</td><td>36.015</td><td>36.015</td><td>36.014</td></tr><tr><td>50</td><td>36.010</td><td>36.010</td><td>36.010</td></tr><tr><td>60</td><td>36.004</td><td>36.005</td><td>36.005</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> <div>Note: In case of Input Volt. 100V, Load 90%. Other case Load 100%.</div>			Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	-20	36.067	36.067	36.066	-10	36.058	36.058	36.057	0	36.049	36.049	36.048	10	36.038	36.038	36.037	25	36.026	36.025	36.025	30	36.027	36.027	36.026	40	36.015	36.015	36.014	50	36.010	36.010	36.010	60	36.004	36.005	36.005	--	-	-	-	--	-	-	-
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60	36.004	36.005	36.005																																																				
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**COSEL**

		Testing Circuitry Figure A
Model	PLA600F-36	
Item	Output Voltage Accuracy	
Object	+36V16.7A	

### 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 : -20 - 50°C

Input Voltage : 115 - 264V

Load Current : 0 - 16.7A

\* 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	-20	115	0	36.076	±33	±0.1
Minimum Voltage	50	264	16.7	36.010		

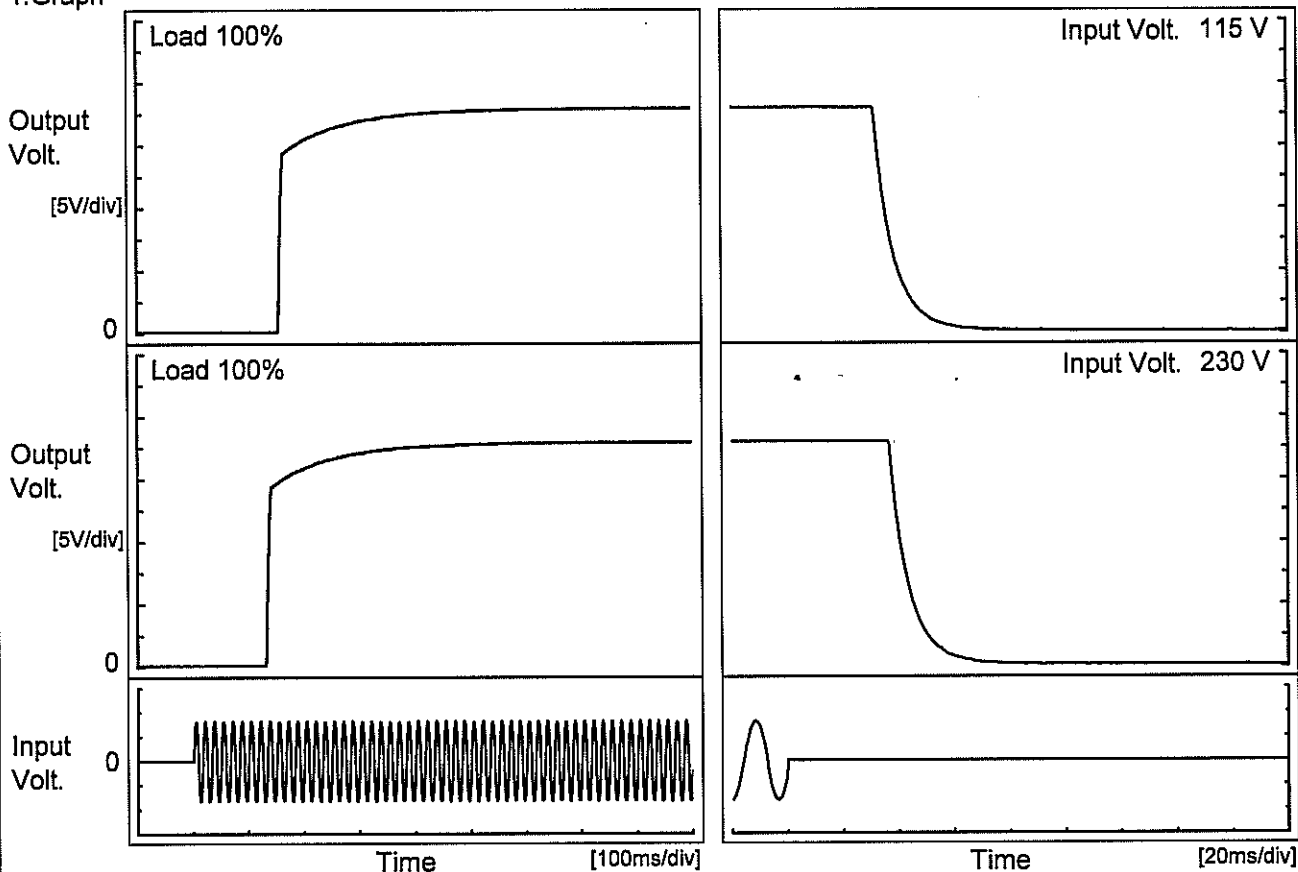
# COSEL

Model		PLA600F-36	Temperature25°C Testing CircuitryFigure A
Item		Time Lapse Drift	
Object		+36V16.7A	
1.Graph			2.Values
<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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# COSEL

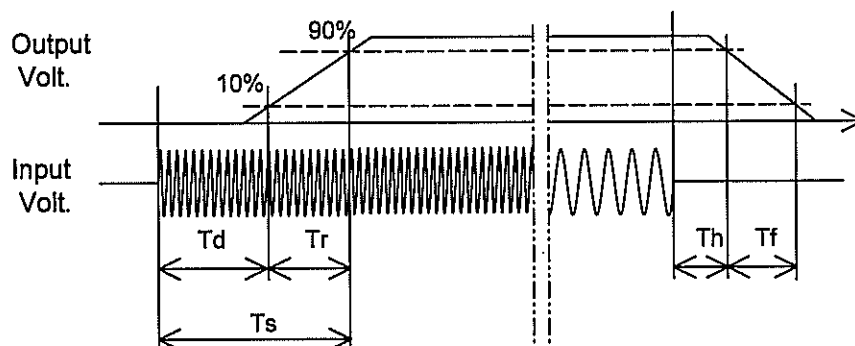
Model	PLA600F-36	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V16.7A		

## 1. Graph



## 2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		156.0	90.0	246.0	31.5	15.5
230 V		133.5	88.0	221.5	37.0	15.5



# COSEL

Model	PLA600F-36	Temperature 25°C Testing Circuitry Figure A																																	
Item	Hold-Up Time																																		
Object	+36V16.7A																																		
1.Graph		2.Values																																	
<div><div><div>Hold-Up Time [ms]</div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div><div>Input Voltage [V]</div></div> <div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></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>60</td><td>37 ※1</td></tr><tr><td>100</td><td>61</td><td>34 ※2</td></tr><tr><td>115</td><td>63</td><td>31</td></tr><tr><td>200</td><td>71</td><td>35</td></tr><tr><td>230</td><td>73</td><td>36</td></tr><tr><td>264</td><td>75</td><td>38</td></tr><tr><td>280</td><td>75</td><td>38</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	60	37 ※1	100	61	34 ※2	115	63	31	200	71	35	230	73	36	264	75	38	280	75	38	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
85	60	37 ※1																																	
100	61	34 ※2																																	
115	63	31																																	
200	71	35																																	
230	73	36																																	
264	75	38																																	
280	75	38																																	
--	-	-																																	
--	-	-																																	
<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>		<p>※1: Load 80%</p> <p>※2: Load 90%</p>																																	

# COSEL

Model	PLA600F-36	Temperature25°C Testing CircuitryFigure A																																																					
Item	Instantaneous Interruption Compensation																																																						
Object	+36V16.7A																																																						
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> <div><div>Instantaneous Compensation Time [ms]</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. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>114</td><td>131</td><td>179</td></tr><tr><td>6.00</td><td>39</td><td>40</td><td>97</td></tr><tr><td>9.00</td><td>30</td><td>31</td><td>28</td></tr><tr><td>12.00</td><td>23</td><td>23</td><td>26</td></tr><tr><td>15.00</td><td>22</td><td>23</td><td>21</td></tr><tr><td>16.70</td><td>20</td><td>22</td><td>20</td></tr><tr><td>18.37</td><td>-</td><td>20</td><td>20</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> <div>Note: Slanted line shows the range of the rated load current.</div>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	-	-	-	3.00	114	131	179	6.00	39	40	97	9.00	30	31	28	12.00	23	23	26	15.00	22	23	21	16.70	20	22	20	18.37	-	20	20	--	-	-	-	--	-	-	-	--	-	-	-			
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Model	PLA600F-36	Temperature 25°C Testing Circuitry Figure A																																										
Item	Overcurrent Protection																																											
Object	+36V16.7A																																											
1.Graph		2.Values																																										
<div><div><div></div>Input Volt. 115V</div><div><div></div>Input Volt. 230V</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>34.2</td><td>18.66</td><td>18.69</td></tr><tr><td>32.4</td><td>18.72</td><td>18.73</td></tr><tr><td>28.8</td><td>18.81</td><td>18.81</td></tr><tr><td>25.2</td><td>18.91</td><td>18.84</td></tr><tr><td>21.6</td><td>18.90</td><td>18.81</td></tr><tr><td>18.0</td><td>18.91</td><td>18.83</td></tr><tr><td>14.4</td><td>18.87</td><td>18.79</td></tr><tr><td>10.8</td><td>18.88</td><td>18.80</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]	34.2	18.66	18.69	32.4	18.72	18.73	28.8	18.81	18.81	25.2	18.91	18.84	21.6	18.90	18.81	18.0	18.91	18.83	14.4	18.87	18.79	10.8	18.88	18.80	--	-	-	--	-	-	--	-	-	--	-	-
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# COSEL

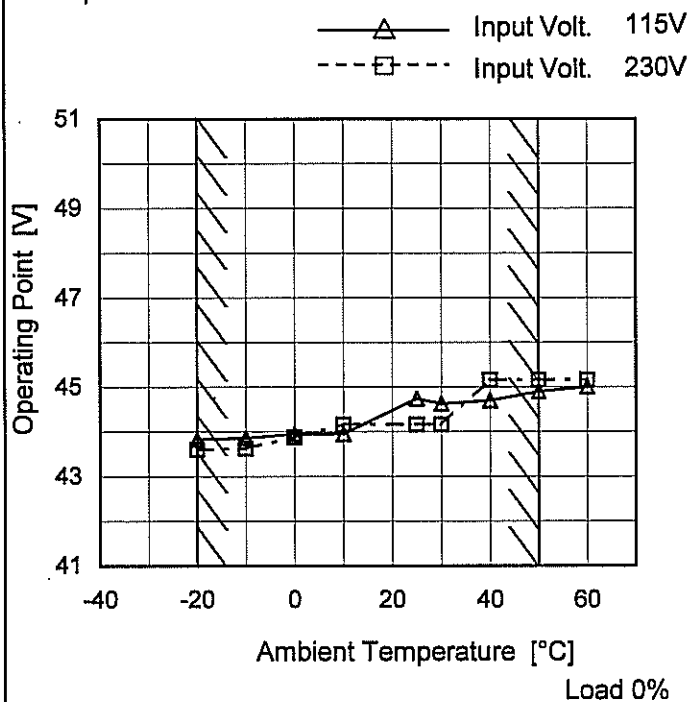
Model PLA600F-36

Item Overvoltage Protection

Object +36V16.7A

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	43.83	43.60
-10	43.86	43.63
0	43.95	43.87
10	43.95	44.16
25	44.74	44.16
30	44.63	44.16
40	44.70	45.16
50	44.90	45.16
60	45.00	45.16
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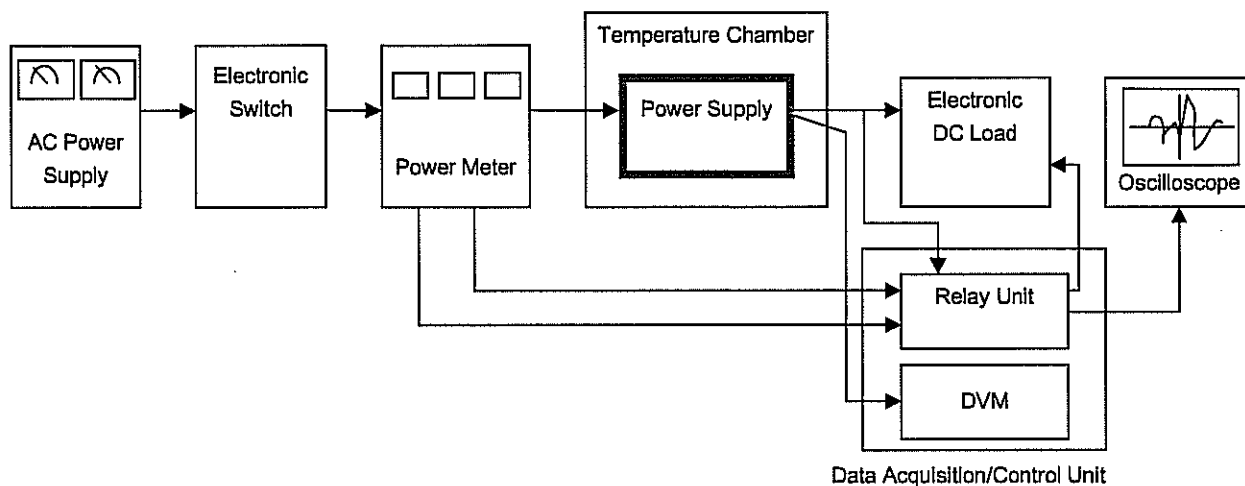


Figure A

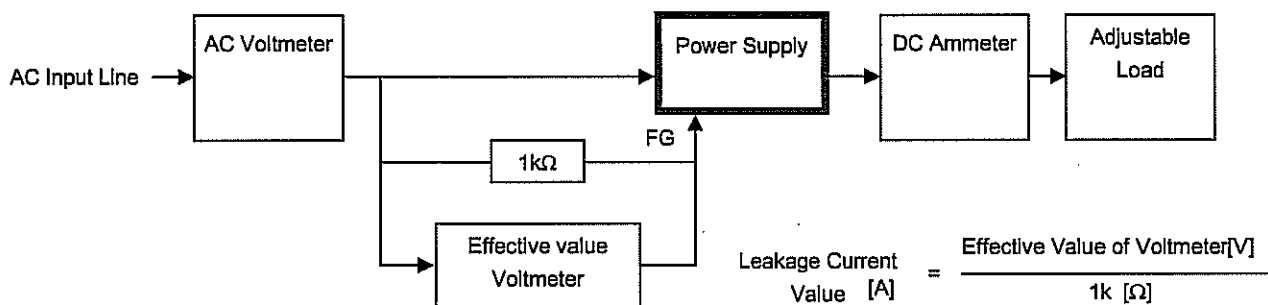


Figure B ( DEN-AN )

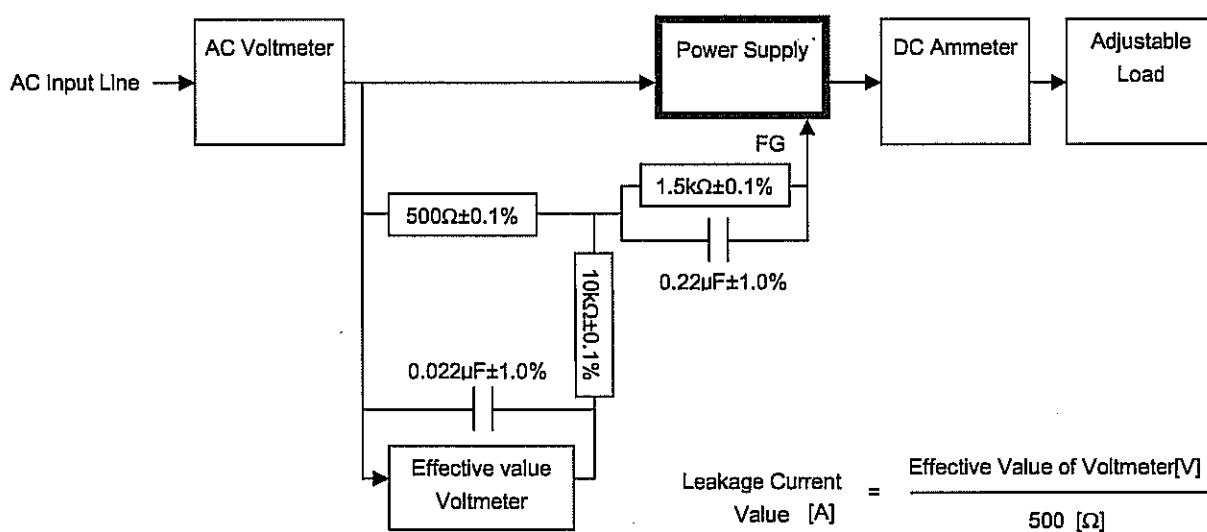


Figure B ( IEC60950-1 )

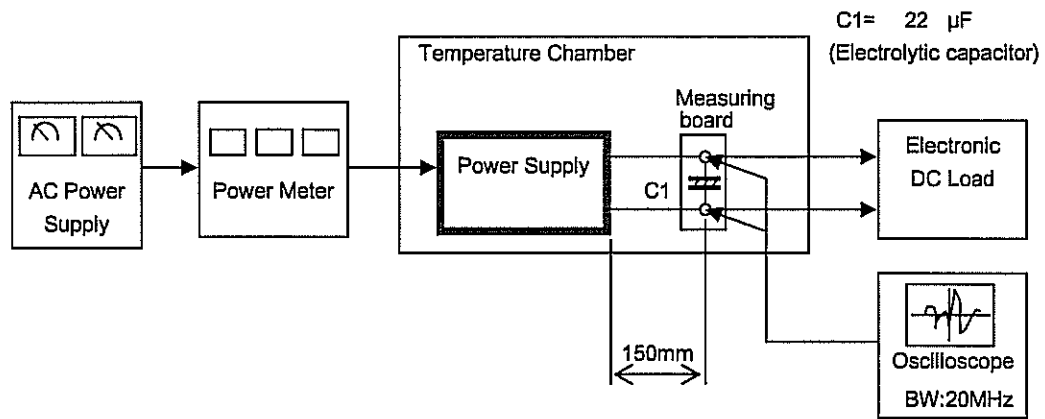


Figure C