

TEST DATA OF PLA600F-36

Regulated DC Power Supply
August 19, 2011

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COSEL CO.,LTD.

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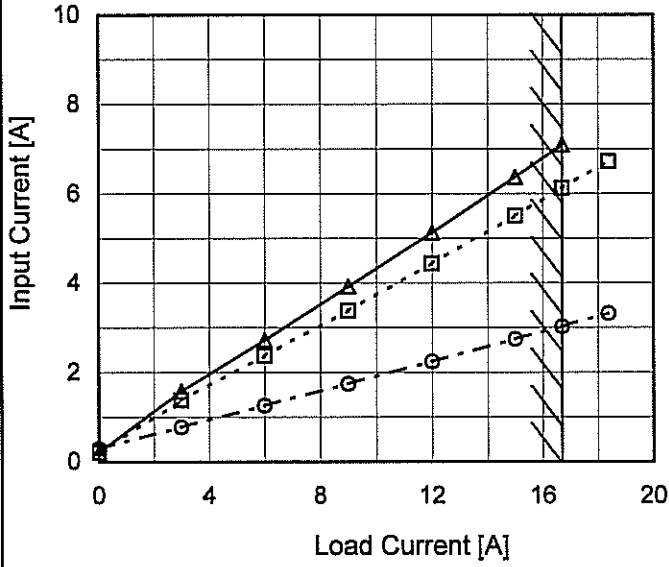


Model	PLA600F-36
Item	Input Current (by Load Current)
Object	_____

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	0.216	0.211	0.294
3.00	1.578	1.376	0.775
6.00	2.720	2.370	1.255
9.00	3.920	3.382	1.744
12.00	5.130	4.440	2.238
15.00	6.370	5.500	2.746
16.70	7.090	6.120	3.028
18.37	-	6.720	3.316
--	-	-	-
--	-	-	-
--	-	-	-

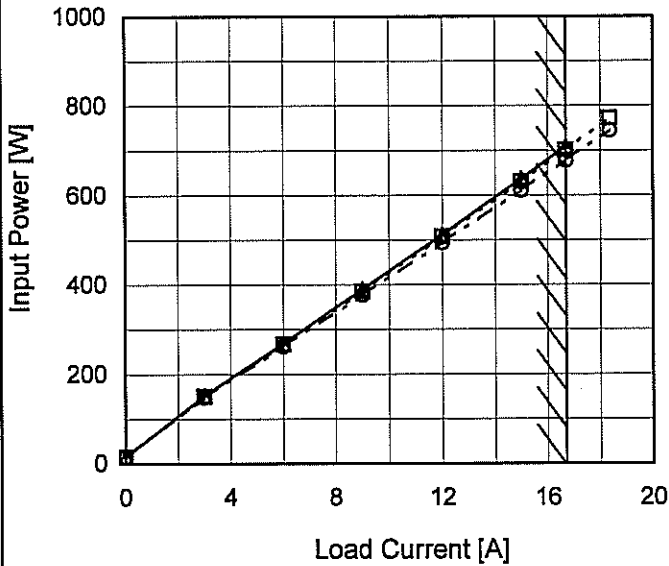


Model	PLA600F-36
Item	Input Power (by Load Current)
Object	_____

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 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
--	-	-	-
--	-	-	-
--	-	-	-



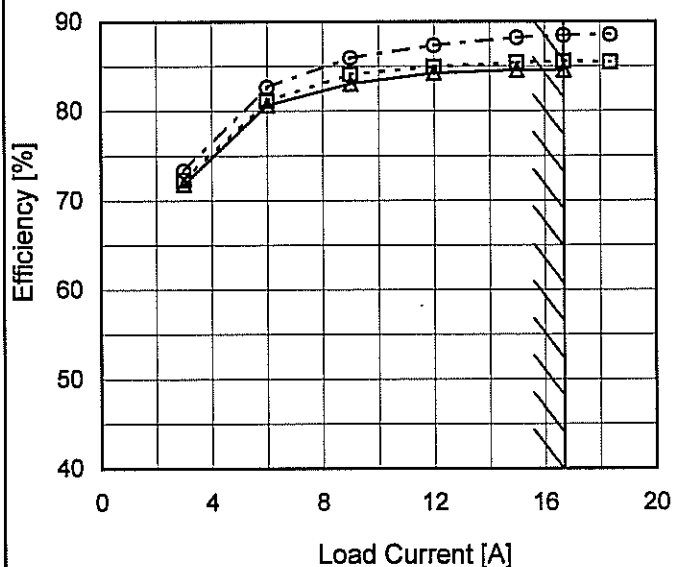
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<p>Note: Slanted line shows the range of the rated input voltage.</p>			<p>※1: Load 80% ※2: Load 90%</p>																																		



Model	PLA600F-36
Item	Efficiency (by Load Current)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

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



2.Values

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
--	-	-	-
--	-	-	-
--	-	-	-

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



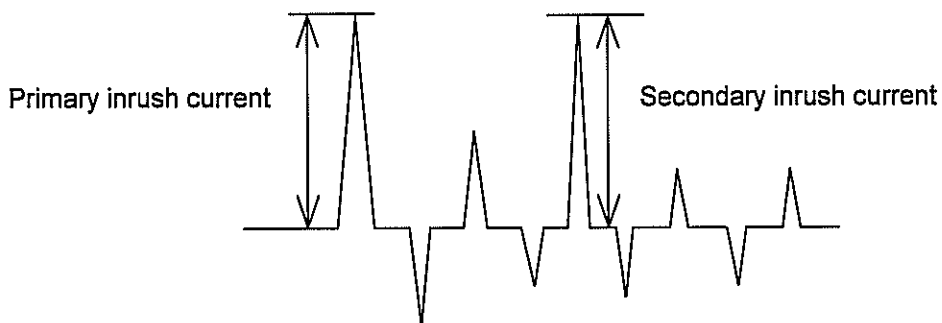
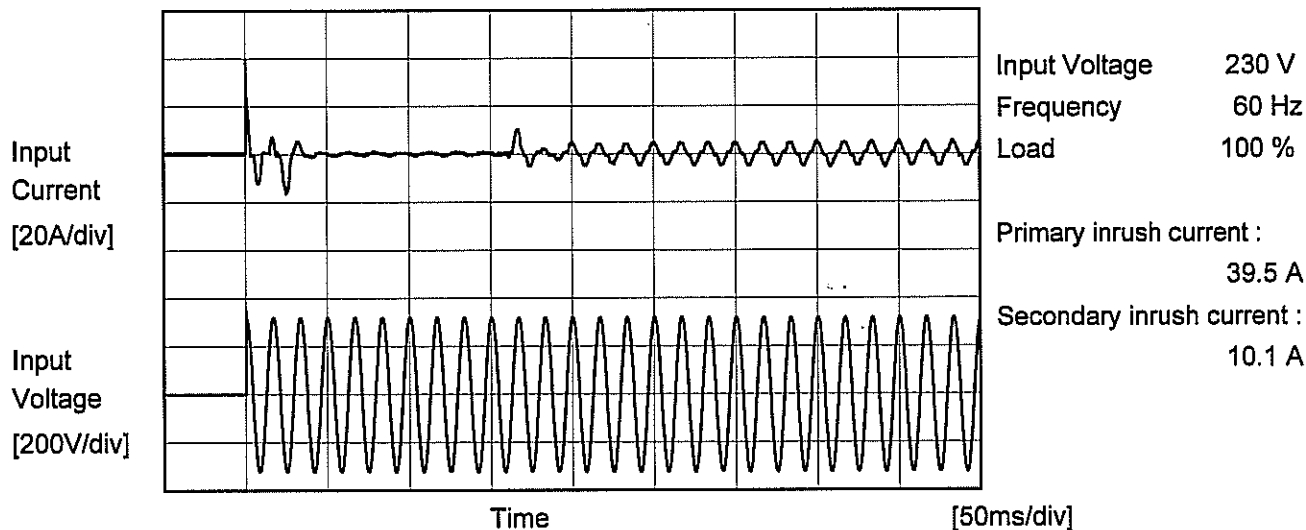
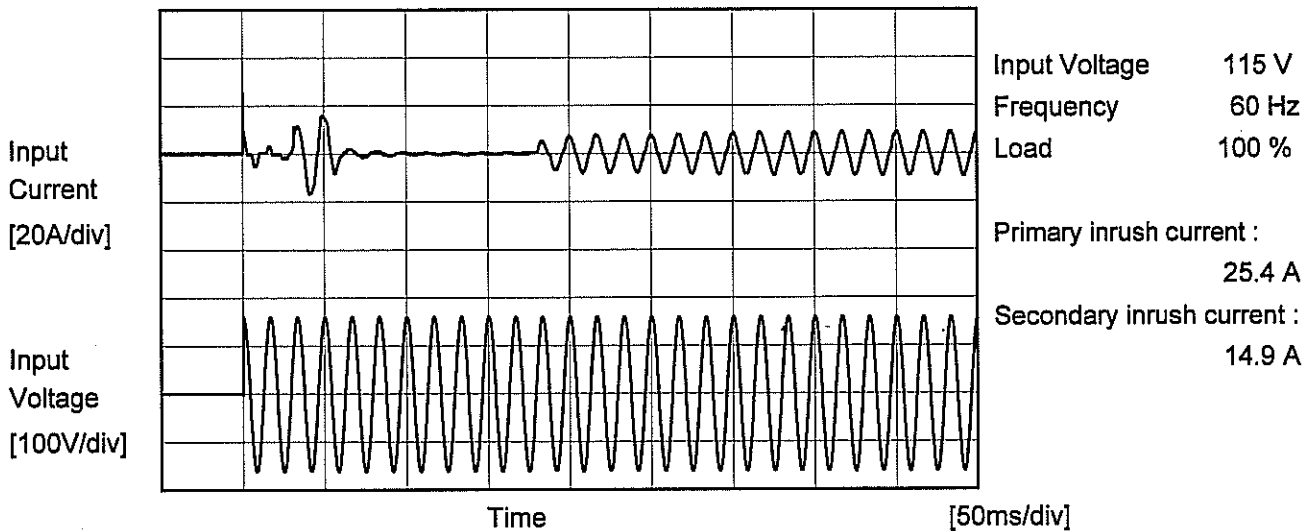
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Model		PLA600F-36	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





COSEL		
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																																		
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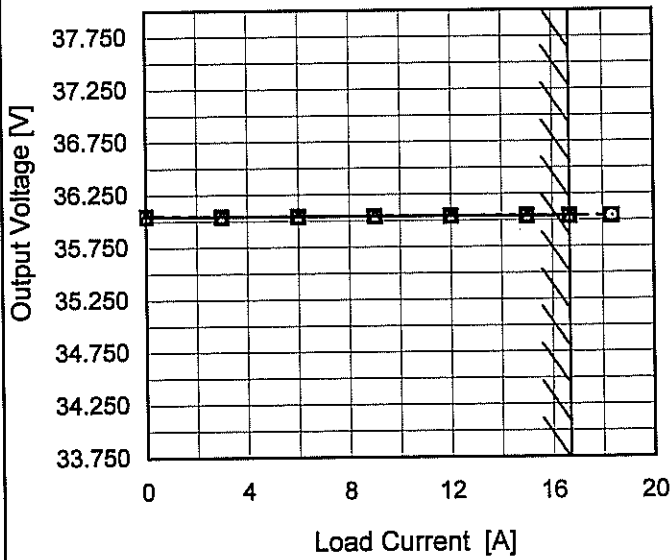


Model	PLA600F-36
Item	Load Regulation
Object	+36V16.7A

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

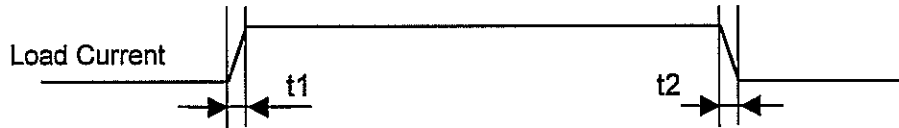
Load Current [A]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	36.047	36.048	36.048
3.00	36.043	36.044	36.043
6.00	36.042	36.043	36.042
9.00	36.042	36.042	36.042
12.00	36.041	36.042	36.041
15.00	36.040	36.041	36.041
16.70	36.040	36.040	36.041
18.37	-	36.040	36.040
--	-	-	-
--	-	-	-
--	-	-	-



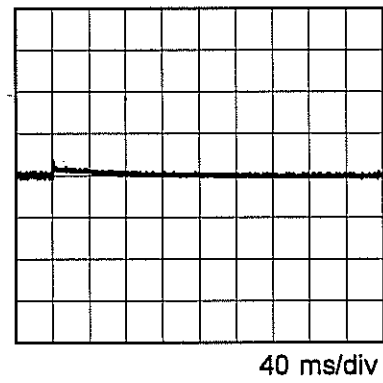
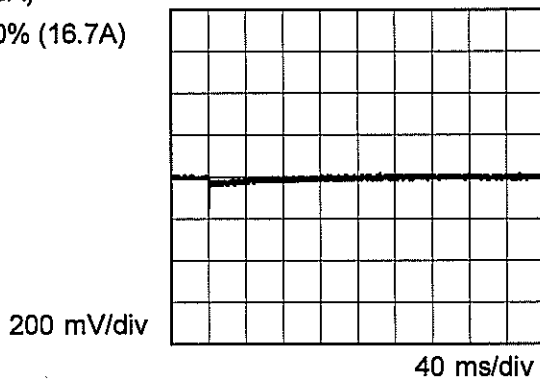
Model	PLA600F-36	Temperature	25° C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+36V16.7A		

Input Volt. 115 V
 Cycle 1000 ms

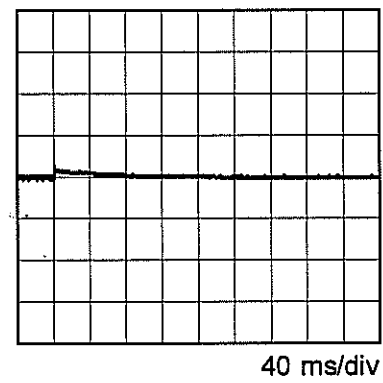
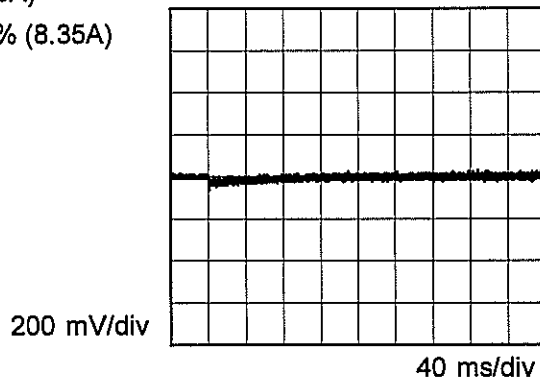
Response. $t_1=t_2=50\mu\text{s}$. Typ



Min. Load (0A) ←→
 Load 100% (16.7A)



Min. Load (0A) ←→
 Load 50% (8.35A)





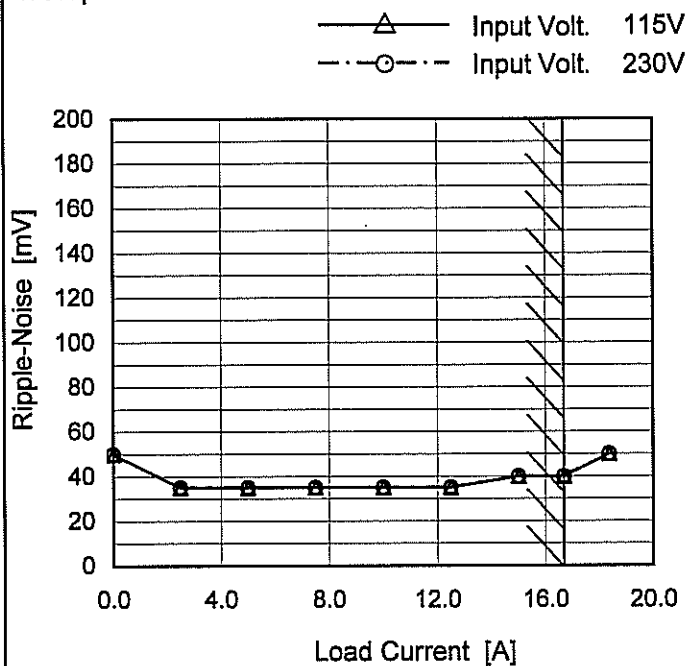
<p>Model PLA600F-36</p>		<p>Temperature 25°C Testing Circuitry Figure C</p>																																						
Item	Ripple Voltage (by Load Current)																																							
Object	+36V16.7A																																							
<p>1. Graph</p> <p> —△— Input Volt. 115V - - ○ - - Input Volt. 230V </p> <p> Y-axis: Ripple Voltage [mV] (0 to 200) X-axis: Load Current [A] (0 to 20) </p>		<p>2. Values</p> <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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	--	-	-	--	-	-
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<p>Measured by 20 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>																																								
<p> T1: Due to AC Input Line T2: Due to Switching </p> <p>Y-axis: Ripple [mVp-p]</p>																																								
<p>Fig. Complex Ripple Wave Form</p>																																								



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

Temperature 25°C
Testing Circuitry Figure C

1. Graph



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
--	-	-
--	-	-

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.

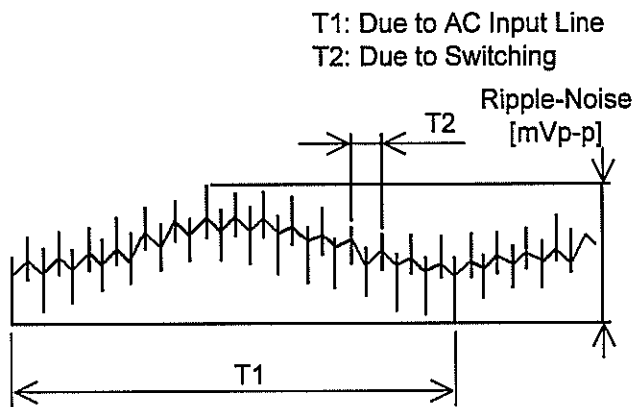


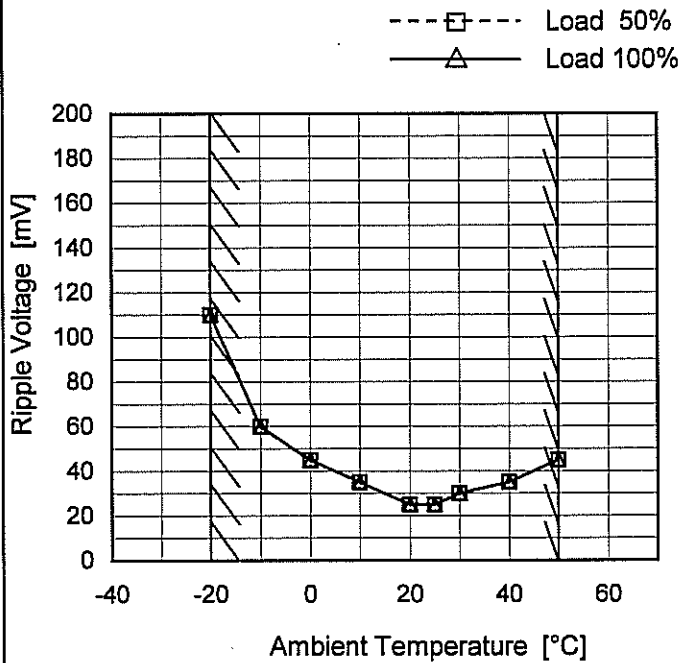
Fig. Complex Ripple Wave Form



Model	PLA600F-36
Item	Ripple Voltage (by Ambient Temp.)
Object	+36V16.7A

Testing Circuitry Figure C

1. Graph



Measured by 20 MHz Oscilloscope.

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

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 115 [V]	Input Volt. 230 [V]
-20	110	110
-10	60	60
0	45	45
10	35	35
20	25	25
25	25	25
30	30	30
40	35	35
50	45	45
--	-	-
--	-	-

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

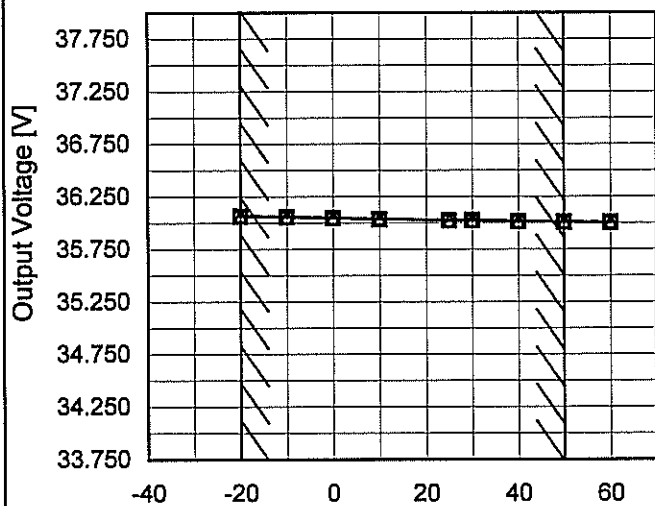


Model	PLA600F-36
Item	Ambient Temperature Drift
Object	+36V16.7A

Testing Circuitry Figure A

1. Graph

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



Ambient Temperature [°C]

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

2. Values

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
--	-	-	-
--	-	-	-

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



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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-20	115	0	36.076	±33	±0.1
Minimum Voltage	50	264	16.7	36.010		

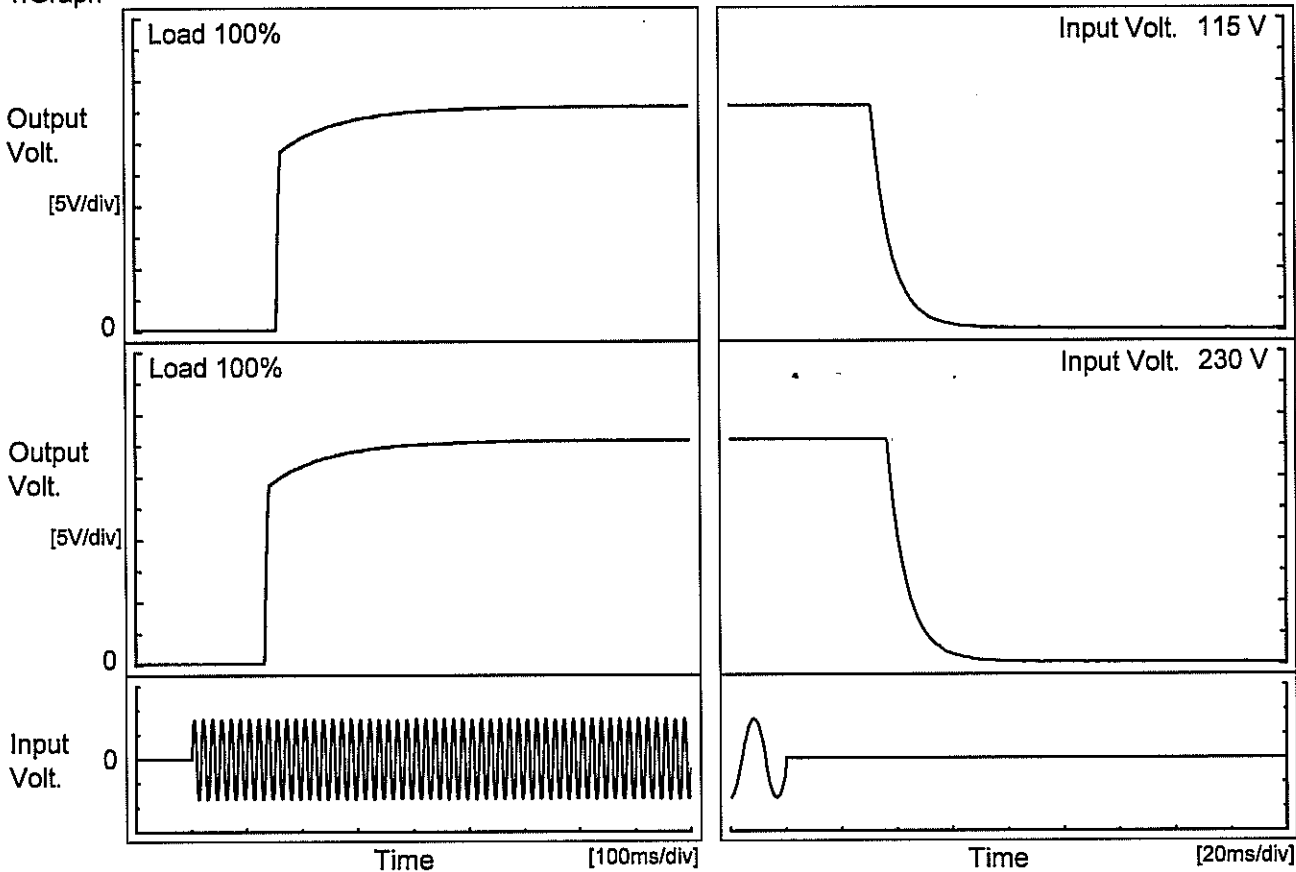


COSEL																								
Model	PLA600F-36	Temperature 25°C Testing Circuitry Figure A																						
Item	Time Lapse Drift																							
Object	+36V16.7A																							
1. Graph		2. Values																						
<p style="text-align: center;">Time [H]</p> <p>Input Volt. 230V Load 100%</p>		<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>36.721</td></tr> <tr><td>0.5</td><td>36.610</td></tr> <tr><td>1.0</td><td>36.610</td></tr> <tr><td>2.0</td><td>36.610</td></tr> <tr><td>3.0</td><td>36.611</td></tr> <tr><td>4.0</td><td>36.611</td></tr> <tr><td>5.0</td><td>36.613</td></tr> <tr><td>6.0</td><td>36.613</td></tr> <tr><td>7.0</td><td>36.613</td></tr> <tr><td>8.0</td><td>36.613</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	36.721	0.5	36.610	1.0	36.610	2.0	36.610	3.0	36.611	4.0	36.611	5.0	36.613	6.0	36.613	7.0	36.613	8.0	36.613
Time since start [H]	Output Voltage [V]																							
0.0	36.721																							
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2.0	36.610																							
3.0	36.611																							
4.0	36.611																							
5.0	36.613																							
6.0	36.613																							
7.0	36.613																							
8.0	36.613																							
* The characteristic of AC115V is equal.																								



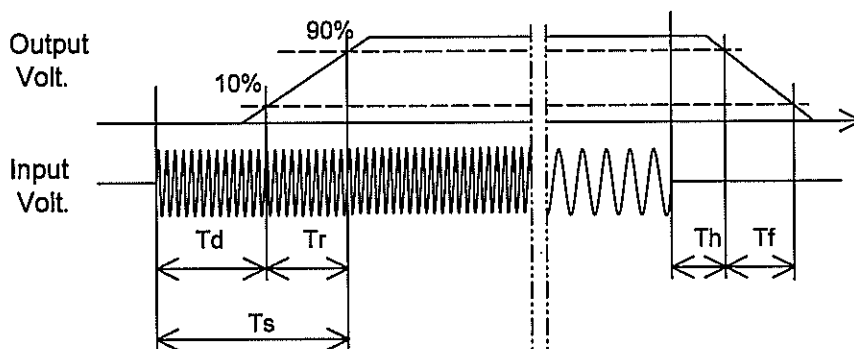
Model	PLA600F-36	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V16.7A		

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

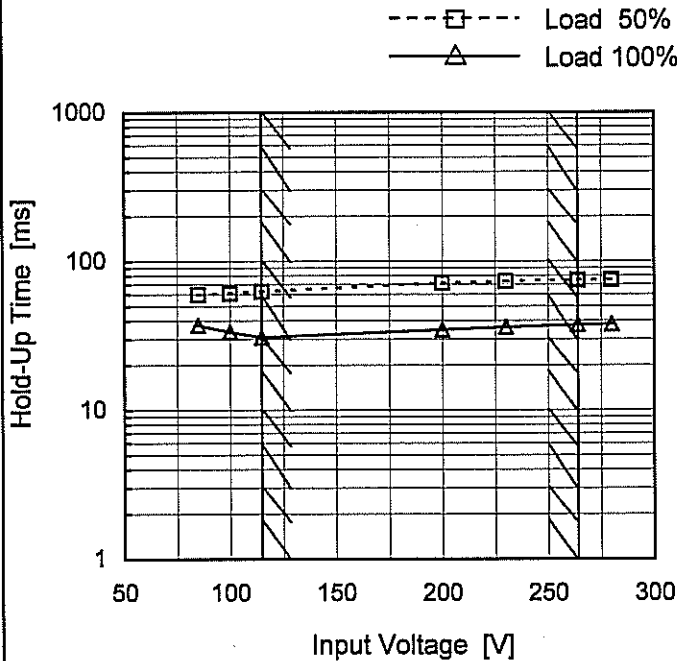




Model	PLA600F-36
Item	Hold-Up Time
Object	+36V16.7A

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	60	37 ※1
100	61	34 ※2
115	63	31
200	71	35
230	73	36
264	75	38
280	75	38
--	-	-
--	-	-

※1: Load 80%

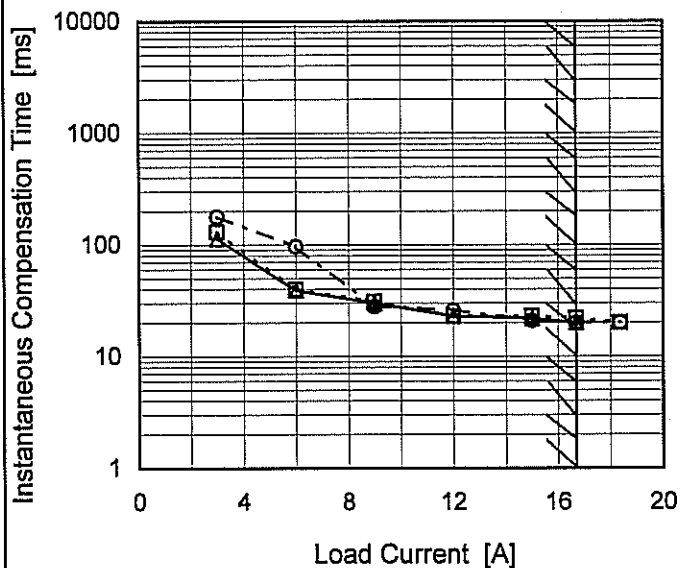
※2: Load 90%



Model	PLA600F-36
Item	Instantaneous Interruption Compensation
Object	+36V16.7A

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]	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
--	-	-	-
--	-	-	-
--	-	-	-



<p>Model PLA600F-36</p> <p>Item Minimum Input Voltage for Regulated Output Voltage</p> <p>Object +36V16.7A</p>		<p>Testing Circuitry Figure A</p>																																						
<p>1. Graph</p> <p style="text-align: right;"> ---□--- Load 50% —△— Load 100% </p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>46</td><td>57</td></tr> <tr><td>-10</td><td>45</td><td>57</td></tr> <tr><td>0</td><td>45</td><td>57</td></tr> <tr><td>10</td><td>46</td><td>57</td></tr> <tr><td>25</td><td>46</td><td>58</td></tr> <tr><td>30</td><td>46</td><td>58</td></tr> <tr><td>40</td><td>47</td><td>59</td></tr> <tr><td>50</td><td>47</td><td>60</td></tr> <tr><td>60</td><td>47</td><td>60</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	46	57	-10	45	57	0	45	57	10	46	57	25	46	58	30	46	58	40	47	59	50	47	60	60	47	60	--	-	-	--	-	-
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--	-	-																																						
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<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																								



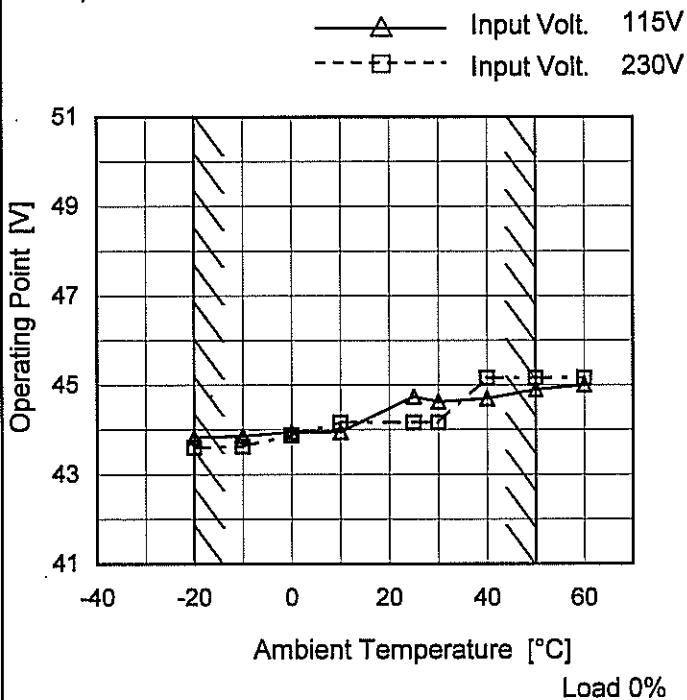
COSEL																																												
Model	PLA600F-36	Temperature	25°C																																									
Item	Overcurrent Protection	Testing Circuitry	Figure A																																									
Object	+36V16.7A																																											
<p>1.Graph</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>— Input Volt. 115V</p> <p>— Input Volt. 230V</p> </div> <div style="text-align: center;"> </div> </div> <p>Note: Slanted line shows the range of the rated load current.</p>		<p>2.Values</p> <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																											
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Model	PLA600F-36
Item	Oversvoltage Protection
Object	+36V16.7A

Testing Circuitry Figure A

1. Graph



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
--	-	-
--	-	-

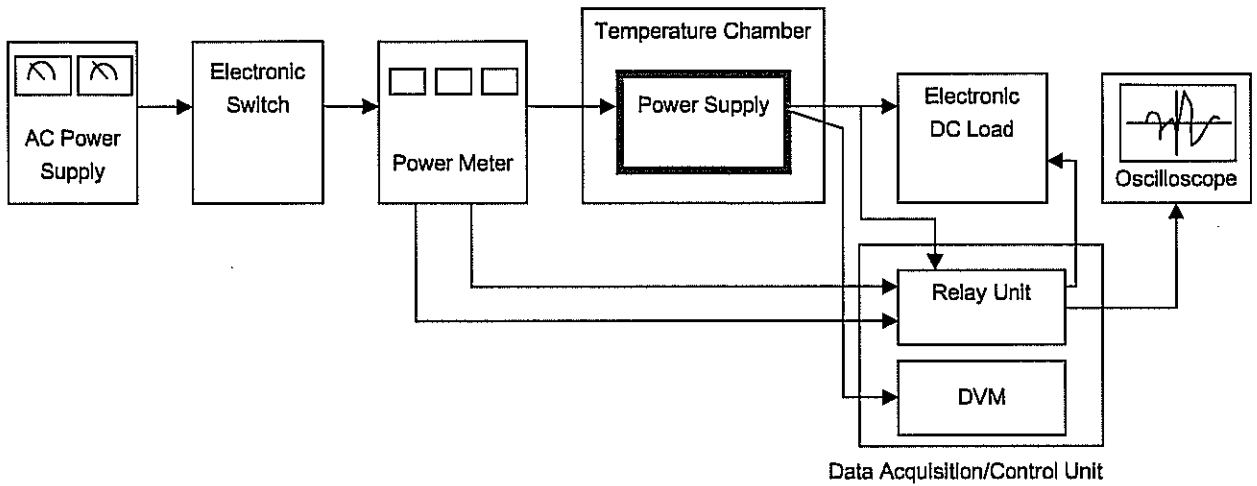


Figure A

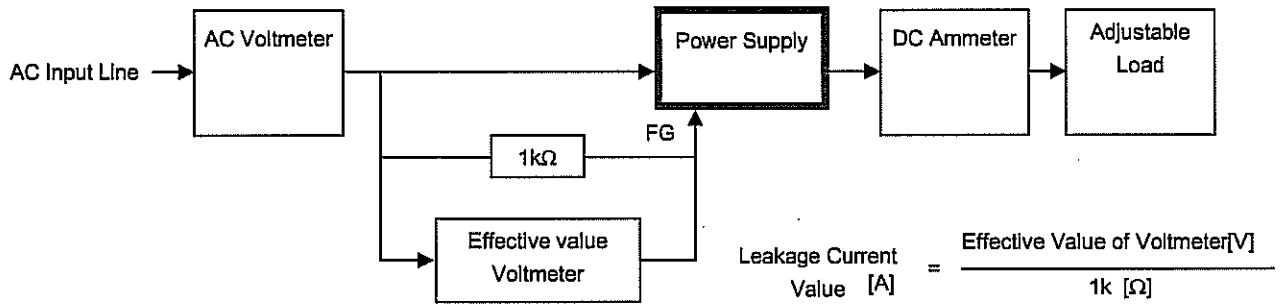


Figure B (DEN-AN)

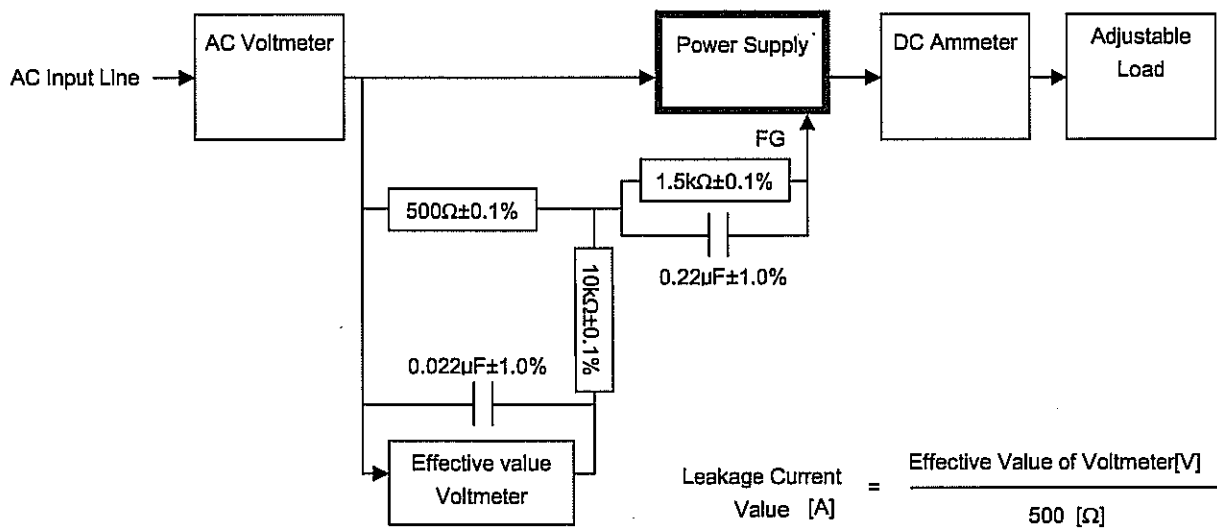


Figure B (IEC60950-1)

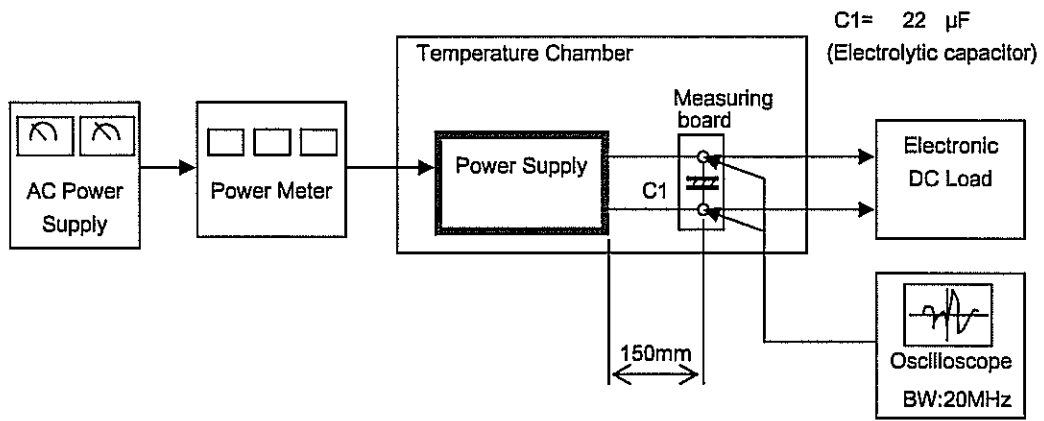


Figure C