

TEST DATA OF PLA600F-5

Regulated DC Power Supply
August 19, 2011

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Prepared by : Shintaro Oki
Shintaro Oki Design Engineer

COSEL CO.,LTD.

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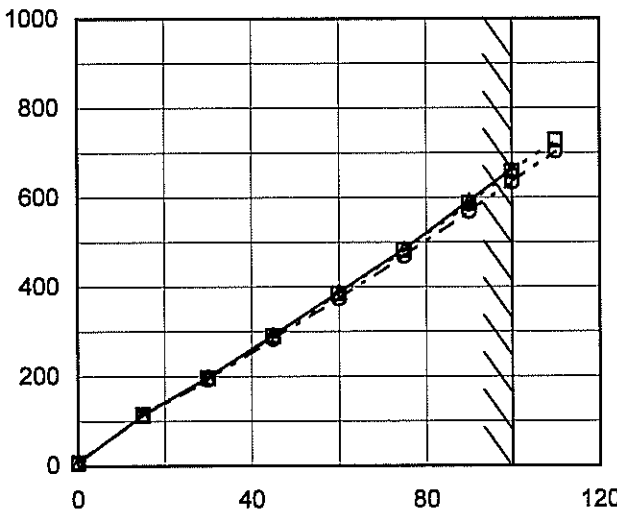
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Model		PLA600F-5																																																				
Item		Input Current (by Load Current)																																																				
Object																																																						
1.Graph		2.Values																																																				
<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>Input Current [A]</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">Input Current [A]</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</td><td>0.172</td><td>0.180</td><td>0.296</td></tr><tr><td>15</td><td>1.274</td><td>1.122</td><td>0.652</td></tr><tr><td>30</td><td>2.110</td><td>1.838</td><td>1.000</td></tr><tr><td>45</td><td>3.028</td><td>2.638</td><td>1.396</td></tr><tr><td>60</td><td>3.970</td><td>3.445</td><td>1.782</td></tr><tr><td>75</td><td>4.930</td><td>4.270</td><td>2.190</td></tr><tr><td>90</td><td>6.000</td><td>5.180</td><td>2.622</td></tr><tr><td>100</td><td>6.700</td><td>5.780</td><td>2.904</td></tr><tr><td>110</td><td>-</td><td>6.390</td><td>3.194</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 Current [A]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0	0.172	0.180	0.296	15	1.274	1.122	0.652	30	2.110	1.838	1.000	45	3.028	2.638	1.396	60	3.970	3.445	1.782	75	4.930	4.270	2.190	90	6.000	5.180	2.622	100	6.700	5.780	2.904	110	-	6.390	3.194	--	-	-	-	--	-	-	-
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Model		PLA600F-5		Temperature 25°C																																																				
Item		Input Power (by Load Current)		Testing Circuitry Figure A																																																				
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1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 115V</div> <div><div>-○-</div>Input Volt. 230V</div>		2.Values																																																				
<div><div>Input Power [W]</div><div></div><div>Load Current [A]</div></div>		<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</td><td>7.5</td><td>7.2</td><td>7.0</td></tr><tr><td>15</td><td>114.5</td><td>114.0</td><td>112.0</td></tr><tr><td>30</td><td>198.3</td><td>197.1</td><td>193.0</td></tr><tr><td>45</td><td>292.3</td><td>290.3</td><td>284.0</td></tr><tr><td>60</td><td>388.0</td><td>385.2</td><td>374.0</td></tr><tr><td>75</td><td>485.0</td><td>482.0</td><td>469.0</td></tr><tr><td>90</td><td>593.0</td><td>587.0</td><td>569.0</td></tr><tr><td>100</td><td>664.0</td><td>658.0</td><td>634.0</td></tr><tr><td>110</td><td>-</td><td>728.0</td><td>703.0</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	7.5	7.2	7.0	15	114.5	114.0	112.0	30	198.3	197.1	193.0	45	292.3	290.3	284.0	60	388.0	385.2	374.0	75	485.0	482.0	469.0	90	593.0	587.0	569.0	100	664.0	658.0	634.0	110	-	728.0	703.0	--	-	-	-	--	-	-	-		
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Model

PLA600F-5

Item

Efficiency (by Input Voltage)

Object

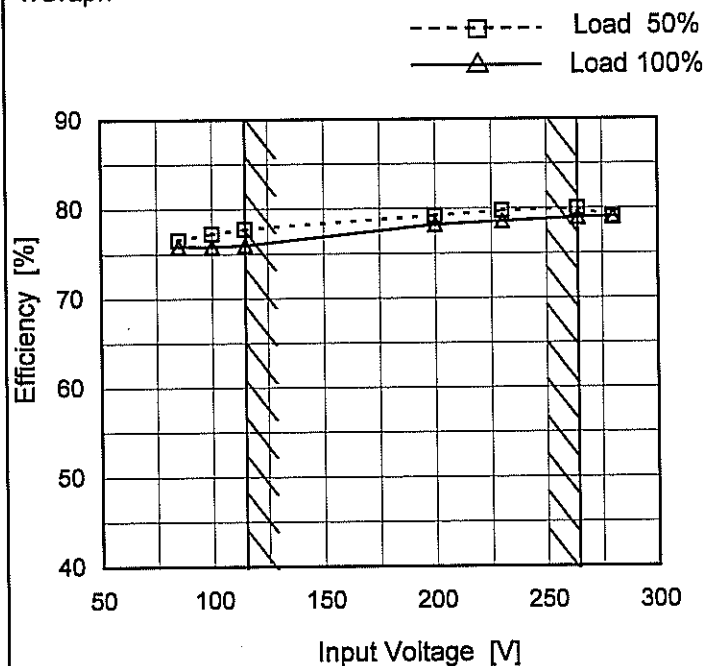
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



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

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
85	76.5	75.9 ※1
100	77.3	75.8 ※2
115	77.8	76.0
200	79.2	78.2
230	79.7	78.6
264	80.0	79.0
280	79.0	79.1
--	-	-
--	-	-

※1: Load 80%

※2: Load 90%

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Model

PLA600F-5

Item

Efficiency (by Load Current)

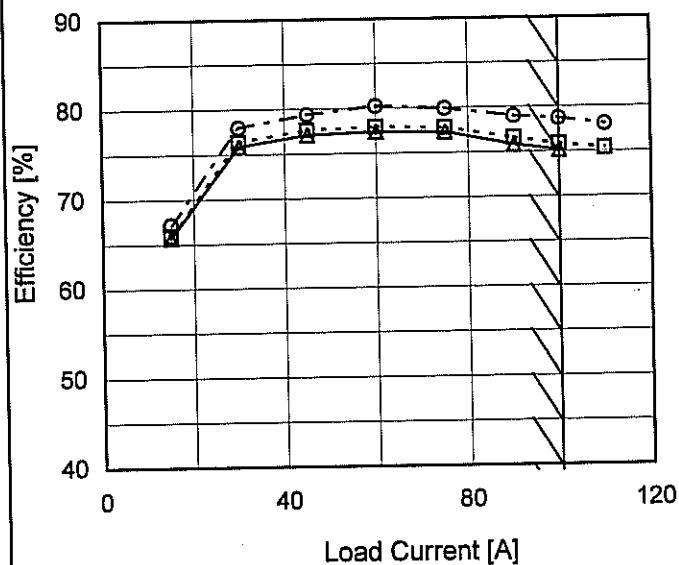
Object

Temperature
Testing Circuitry

25°C
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]	Efficiency [%]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0	-	-	-
15	65.7	66.0	67.2
30	75.9	76.3	78.0
45	77.1	77.6	79.4
60	77.4	77.9	80.3
75	77.3	77.8	79.9
90	75.8	76.6	79.0
100	75.2	75.9	78.7
110	-	75.4	78.0
--	-	-	-
--	-	-	-

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Model		PLA600F-5	
Item		Power Factor (by Input Voltage)	
Object			

1.Graph

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]

---□---

Load 50%

—△—

Load 100%

2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.979	0.991 ※1
100	0.973	0.990 ※2
115	0.964	0.989
200	0.919	0.964
230	0.895	0.952
264	0.867	0.932
280	0.834	0.895
--	-	-
--	-	-

※1:Load 80%

※2:Load 90%

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

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Model		PLA600F-5		Temperature 25°C	
Item		Power Factor (by Load Current)		Testing Circuitry Figure A	
Object					
1.Graph		2.Values			

—△—

Input Volt.

100V

---□---

Input Volt.

115V

---○---

Input Volt.

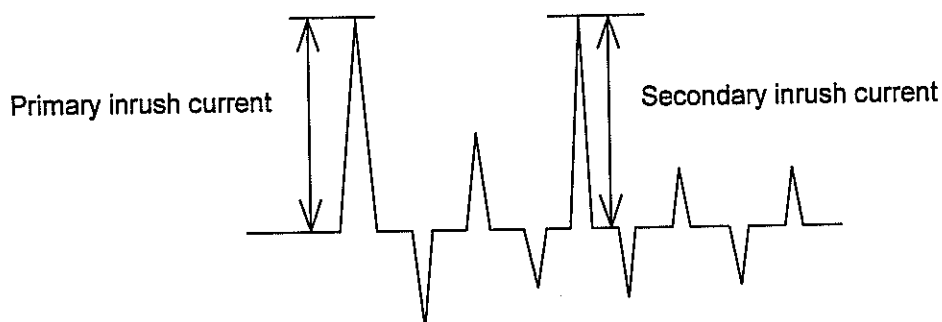
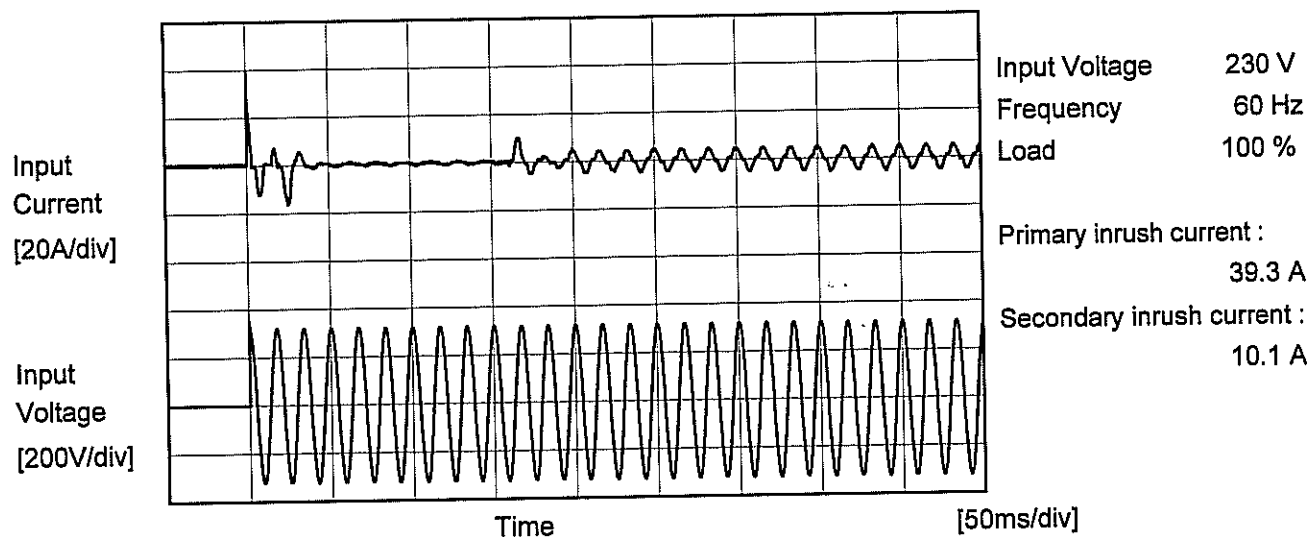
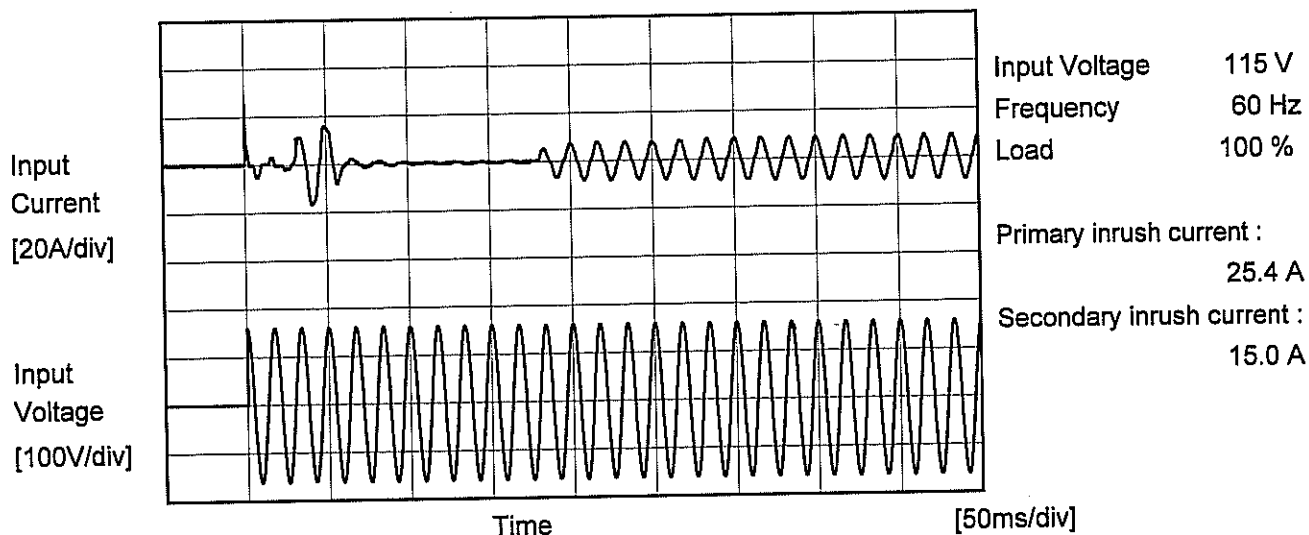
230V

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

Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0	0.436	0.348	0.103
15	0.899	0.884	0.747
30	0.944	0.933	0.839
45	0.966	0.958	0.885
60	0.980	0.973	0.912
75	0.986	0.982	0.931
90	0.990	0.987	0.944
100	0.993	0.991	0.951
110	-	0.992	0.958
--	-	-	-
--	-	-	-

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Model	PLA600F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PLA600F-5	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.

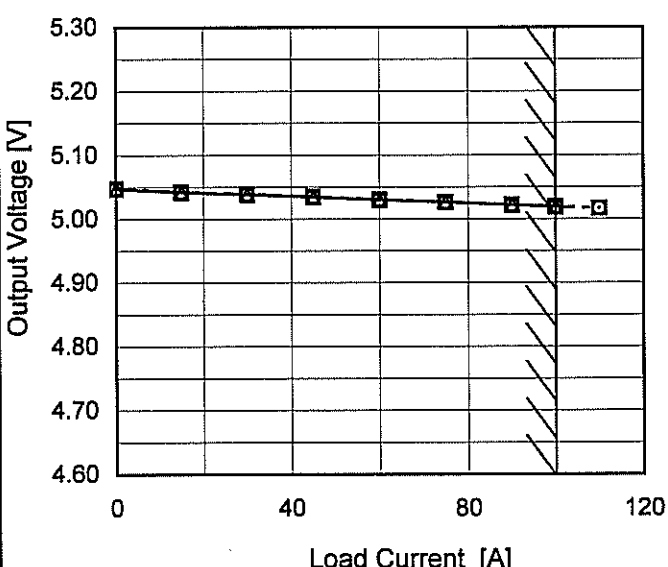
2.Condition

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

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Model	PLA600F-5																																
Item	Line Regulation	Temperature	25°C																														
Object	+5V100A	Testing Circuitry	Figure A																														
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>5.034</td><td>5.025 ※1</td></tr><tr><td>100</td><td>5.034</td><td>5.022 ※2</td></tr><tr><td>115</td><td>5.034</td><td>5.019</td></tr><tr><td>200</td><td>5.033</td><td>5.019</td></tr><tr><td>230</td><td>5.033</td><td>5.019</td></tr><tr><td>264</td><td>5.033</td><td>5.019</td></tr><tr><td>280</td><td>5.033</td><td>5.019</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	5.034	5.025 ※1	100	5.034	5.022 ※2	115	5.034	5.019	200	5.033	5.019	230	5.033	5.019	264	5.033	5.019	280	5.033	5.019	--	-	-	--	-	-	<div>※1:Load 80%</div> <div>※2:Load 90%</div>	
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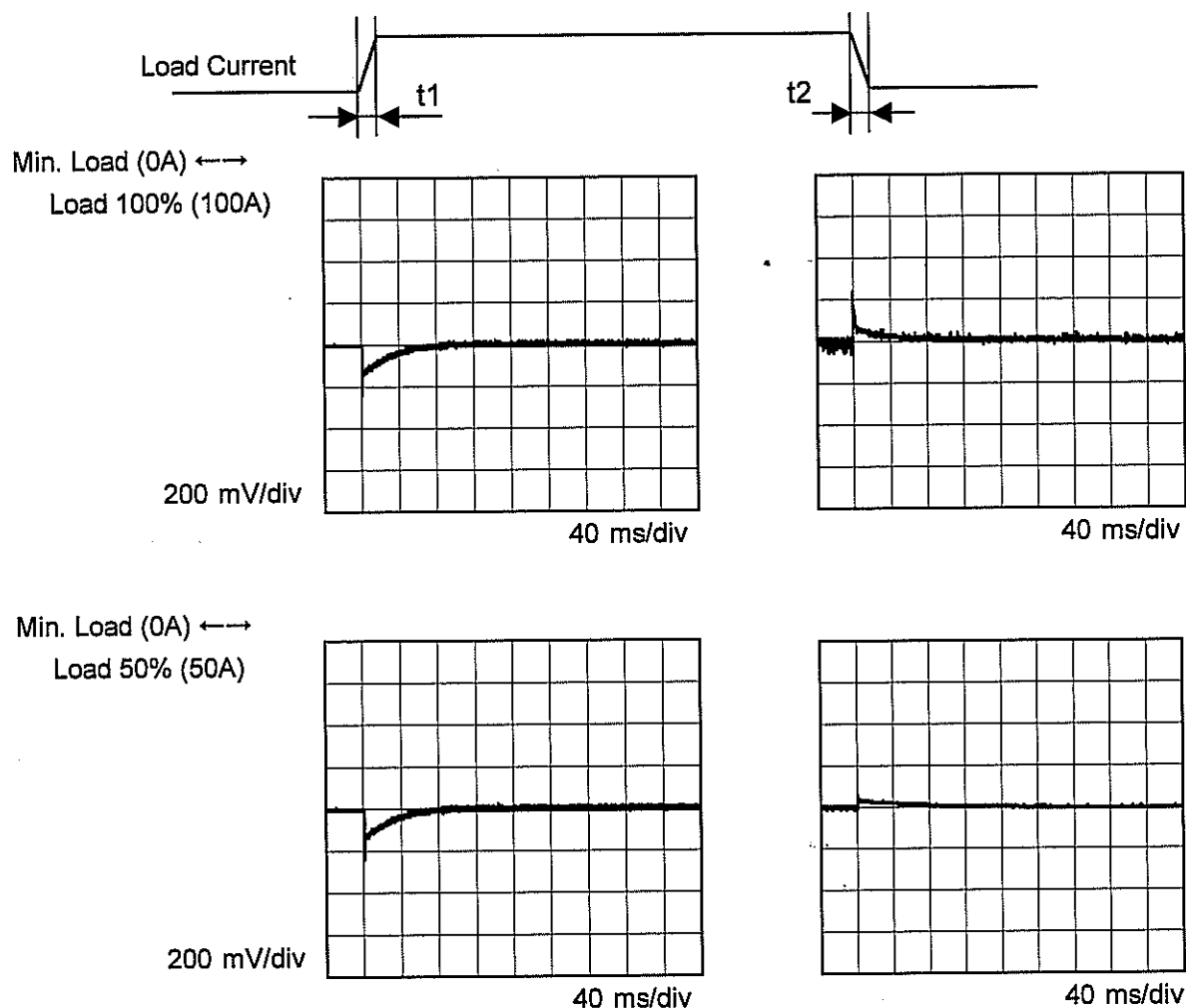
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<div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 115V</div><div>-·-○-·- Input Volt. 230V</div></div>  <p>Output Voltage [V]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>5.048</td><td>5.048</td><td>5.048</td></tr><tr><td>15</td><td>5.042</td><td>5.043</td><td>5.043</td></tr><tr><td>30</td><td>5.039</td><td>5.039</td><td>5.039</td></tr><tr><td>45</td><td>5.035</td><td>5.035</td><td>5.035</td></tr><tr><td>60</td><td>5.030</td><td>5.030</td><td>5.031</td></tr><tr><td>75</td><td>5.027</td><td>5.027</td><td>5.026</td></tr><tr><td>90</td><td>5.022</td><td>5.022</td><td>5.022</td></tr><tr><td>100</td><td>5.019</td><td>5.019</td><td>5.019</td></tr><tr><td>110</td><td>-</td><td>5.016</td><td>5.016</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. 115[V]	Input Volt. 230[V]	0	5.048	5.048	5.048	15	5.042	5.043	5.043	30	5.039	5.039	5.039	45	5.035	5.035	5.035	60	5.030	5.030	5.031	75	5.027	5.027	5.026	90	5.022	5.022	5.022	100	5.019	5.019	5.019	110	-	5.016	5.016	--	-	-	-	--	-	-	-
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Model	PLA600F-5	Temperature Testing Circuitry	25° C Figure A
Item	Dynamic Load Response		
Object	+5V100A		

Input Volt. 115 V
Cycle 1000 ms

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



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Model	PLA600F-5	Temperature 25°C Testing Circuitry Figure C																																					
Item	Ripple Voltage (by Load Current)																																						
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Load Current [A]	Input Volt. 115 [V]	Input Volt. 230 [V]																																					
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100	40	40																																					
110	45	45																																					
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<div><div><div>T1: Due to AC Input Line T2: Due to Switching</div><p>Fig. Complex Ripple Wave Form</p></div></div>																																							

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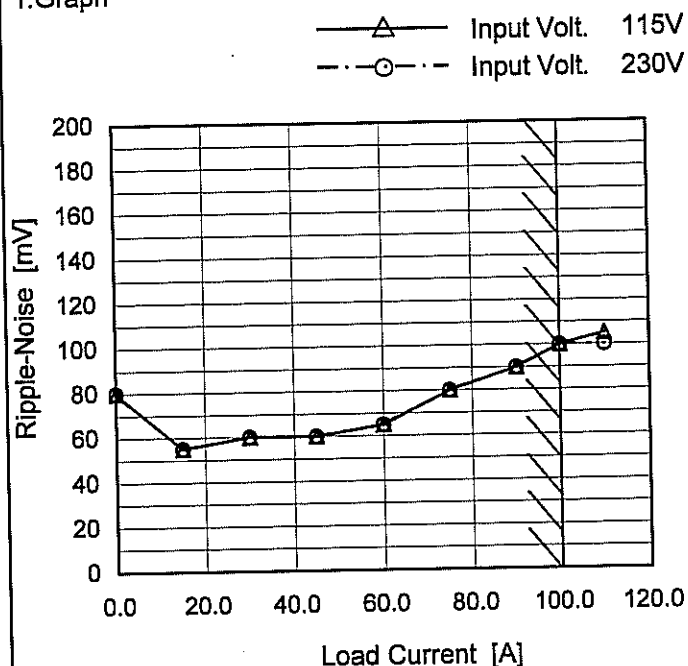
Model PLA600F-5

Item Ripple-Noise

Object +5V100A

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	80	80
15	55	55
30	60	60
45	60	60
60	65	65
75	80	80
90	90	90
100	100	100
110	105	100
--	-	-
--	-	-

T1: Due to AC Input Line
T2: Due to Switching

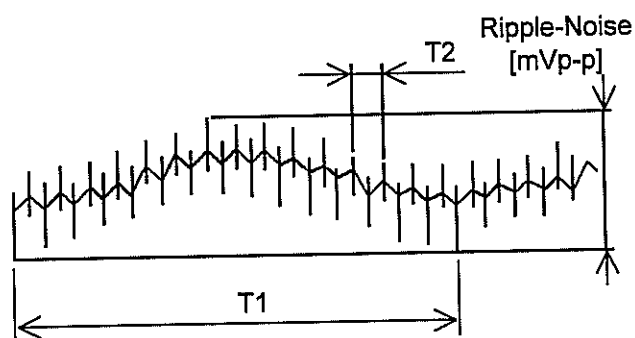
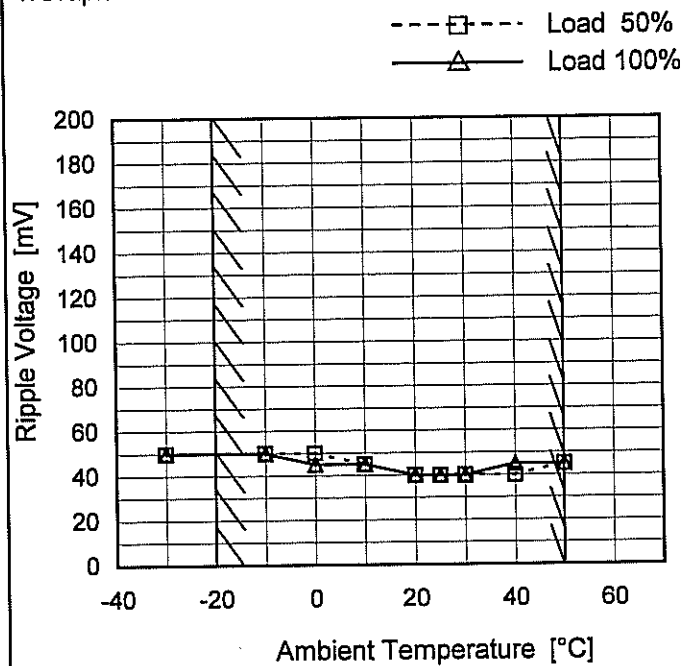


Fig. Complex Ripple Wave Form

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Model	PLA600F-5
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V100A

1. Graph



Measured by 20 MHz Oscilloscope.

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

Testing Circuitry Figure C

2. Values

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

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

COSEL

Model PLA600F-5

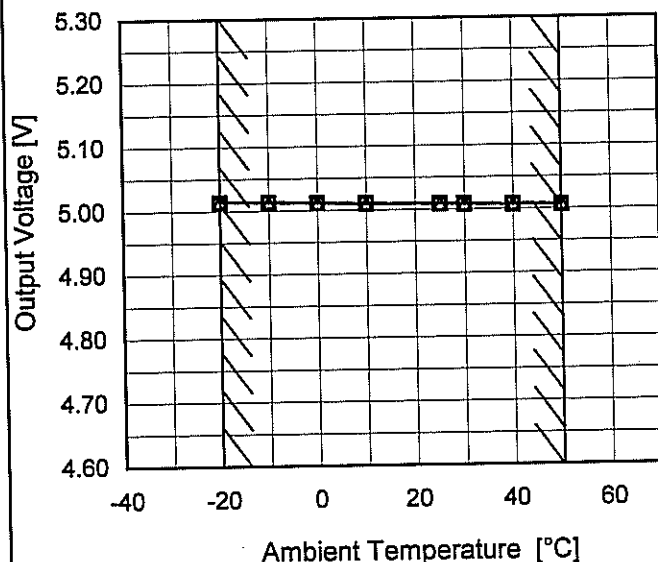
Item Ambient Temperature Drift

Object +5V100A

Testing Circuitry Figure A

1. Graph

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



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	5.015	5.014	5.014
-10	5.013	5.013	5.014
0	5.012	5.012	5.012
10	5.010	5.011	5.011
25	5.009	5.009	5.009
30	5.008	5.009	5.008
40	5.007	5.007	5.008
50	5.007	5.006	5.007
--	-	-	-
--	-	-	-
--	-	-	-

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

COSEL

Model	PLA600F-5	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V100A	

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 - 100A

* 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	50	115	0	5.046	±20	±0.4
Minimum Voltage	50	115	100	5.006		

COSEL

Model		PLA600F-5	
Item		Time Lapse Drift	
Object		+5V100A	

1.Graph

Output Voltage [V]

5.200

5.160

5.120

5.080

5.040

0

2

4

6

8

10

Time [H]

Input Volt. 230V

Load 100%

2.Values

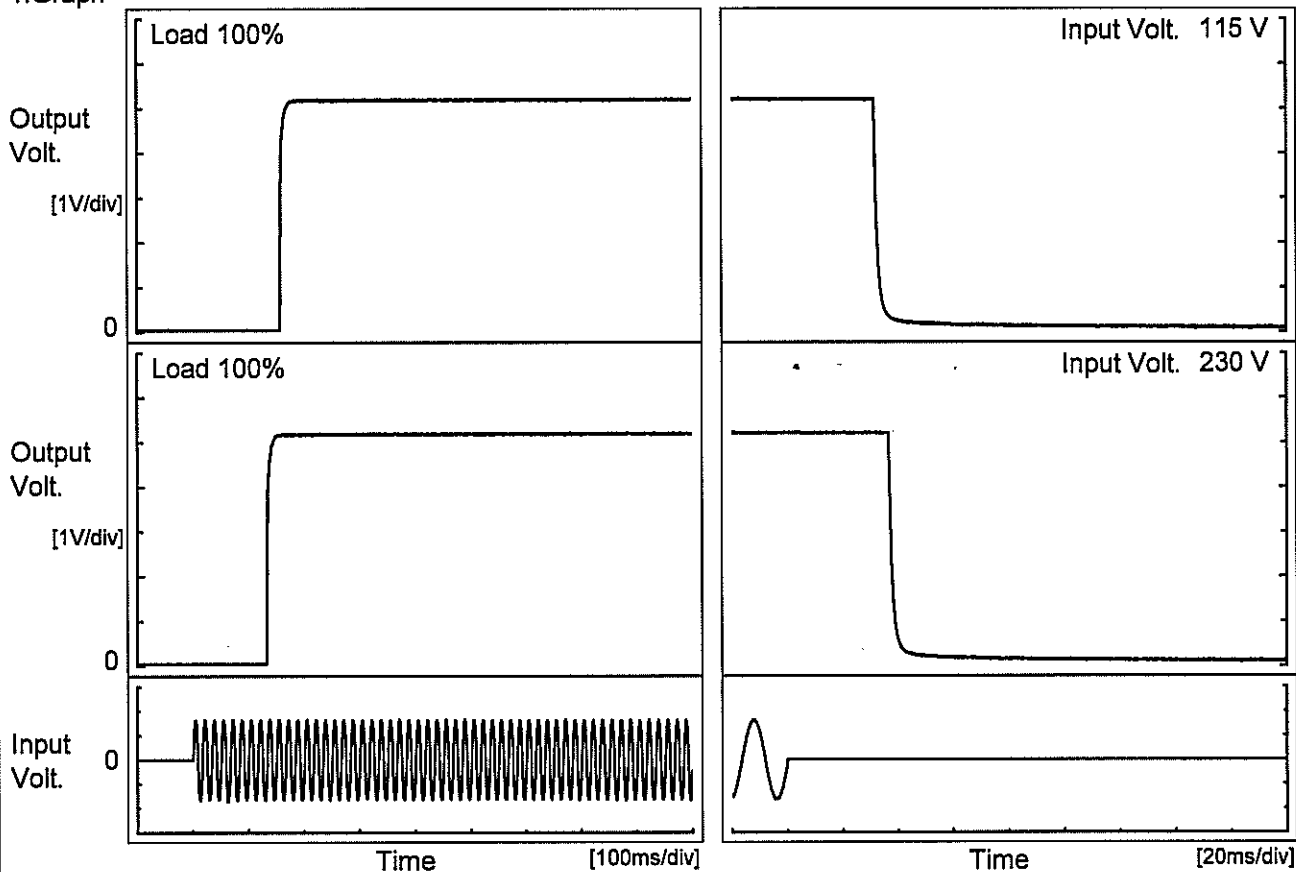
Time since start [H]	Output Voltage [V]
0.0	5.140
0.5	5.139
1.0	5.138
2.0	5.138
3.0	5.138
4.0	5.139
5.0	5.139
6.0	5.139
7.0	5.139
8.0	5.139

* The characteristic of AC115V is equal.

COSEL

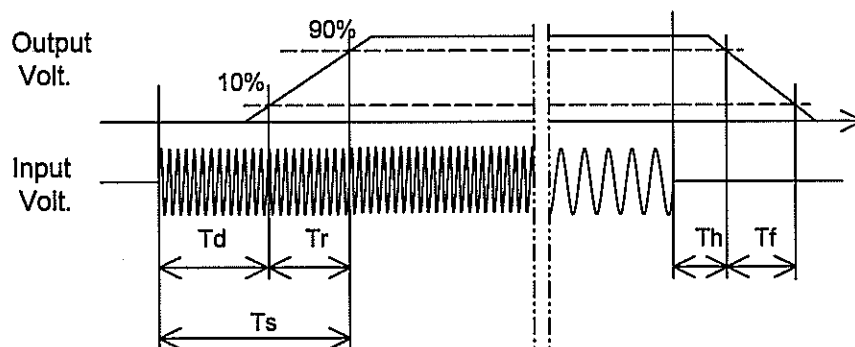
Model	PLA600F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V100A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		158.0	5.0	163.0	31.5	3.5
230 V		134.5	4.5	139.0	36.7	3.5



COSEL

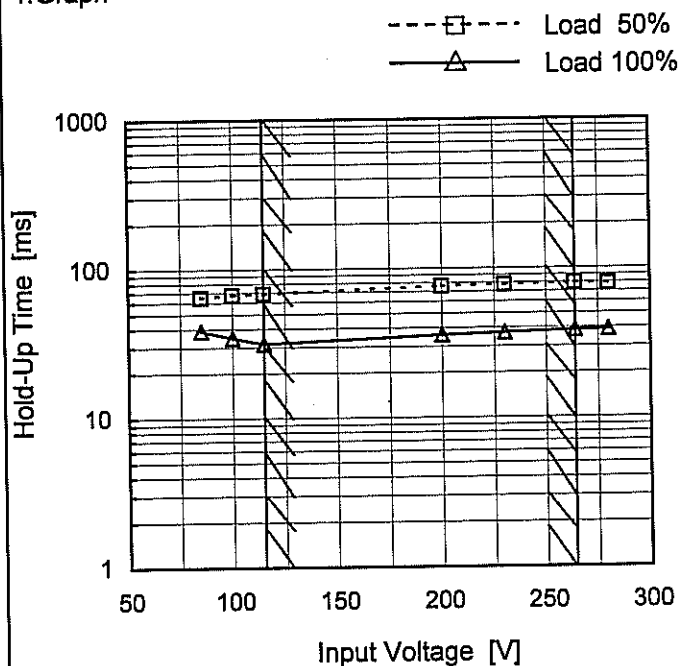
Model PLA600F-5

Item Hold-Up Time

Object +5V100A

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	65	39 ※1
100	68	35 ※2
115	69	32
200	76	36
230	78	37
264	79	38
280	78	39
--	-	-
--	-	-

※1: Load 80%

※2: Load 90%

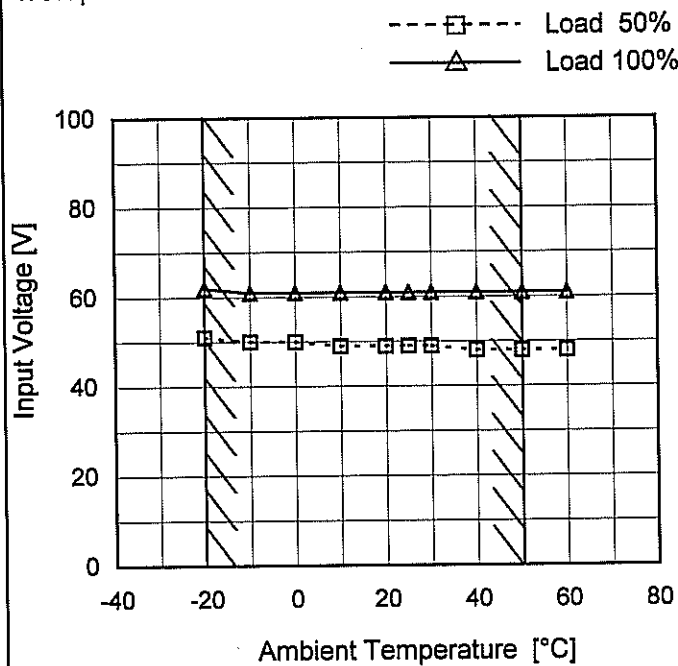


Model	PLA600F-5	Temperature 25°C Testing Circuitry Figure A																																																				
Item	Instantaneous Interruption Compensation																																																					
Object	+5V100A																																																					
1.Graph		2.Values																																																				
<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> <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</td><td>-</td><td>-</td><td>-</td></tr><tr><td>15</td><td>163</td><td>165</td><td>225</td></tr><tr><td>30</td><td>89</td><td>97</td><td>128</td></tr><tr><td>45</td><td>64</td><td>64</td><td>87</td></tr><tr><td>60</td><td>56</td><td>56</td><td>63</td></tr><tr><td>75</td><td>43</td><td>45</td><td>51</td></tr><tr><td>90</td><td>34</td><td>35</td><td>40</td></tr><tr><td>100</td><td>30</td><td>31</td><td>37</td></tr><tr><td>110</td><td>-</td><td>28</td><td>32</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	-	-	-	15	163	165	225	30	89	97	128	45	64	64	87	60	56	56	63	75	43	45	51	90	34	35	40	100	30	31	37	110	-	28	32	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]																																																			
0	-	-	-																																																			
15	163	165	225																																																			
30	89	97	128																																																			
45	64	64	87																																																			
60	56	56	63																																																			
75	43	45	51																																																			
90	34	35	40																																																			
100	30	31	37																																																			
110	-	28	32																																																			
--	-	-	-																																																			
--	-	-	-																																																			



Model	PLA600F-5
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V100A

1. Graph



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	51	62
-10	50	61
0	50	61
10	49	61
20	49	61
25	49	61
30	49	61
40	48	61
50	48	61
60	48	61
—	-	-

COSEL

Model		PLA600F-5	
Item		Overcurrent Protection	
Object		+5V100A	

1.Graph

Input Volt. 115V

Input Volt. 230V

Output Voltage [V]

COSEL

Model	PLA600F-5																																								
Item	Overvoltage Protection	Testing Circuitry Figure A																																							
Object	+5V100A																																								
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 115V</div><div>---□--- Input Volt. 230V</div></div><div>Operating Point [V]</div><div>Ambient Temperature [°C]</div><div>Load 0%</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="2">Operating Point [V]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>-20</td><td>6.61</td><td>6.61</td></tr><tr><td>-10</td><td>6.60</td><td>6.60</td></tr><tr><td>0</td><td>6.60</td><td>6.60</td></tr><tr><td>10</td><td>6.60</td><td>6.60</td></tr><tr><td>25</td><td>6.59</td><td>6.59</td></tr><tr><td>30</td><td>6.59</td><td>6.59</td></tr><tr><td>40</td><td>6.59</td><td>6.59</td></tr><tr><td>50</td><td>6.59</td><td>6.59</td></tr><tr><td>60</td><td>6.59</td><td>6.59</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]		Input Volt. 115[V]	Input Volt. 230[V]	-20	6.61	6.61	-10	6.60	6.60	0	6.60	6.60	10	6.60	6.60	25	6.59	6.59	30	6.59	6.59	40	6.59	6.59	50	6.59	6.59	60	6.59	6.59	--	-	-	--	-	-
Ambient Temperature [°C]	Operating Point [V]																																								
	Input Volt. 115[V]	Input Volt. 230[V]																																							
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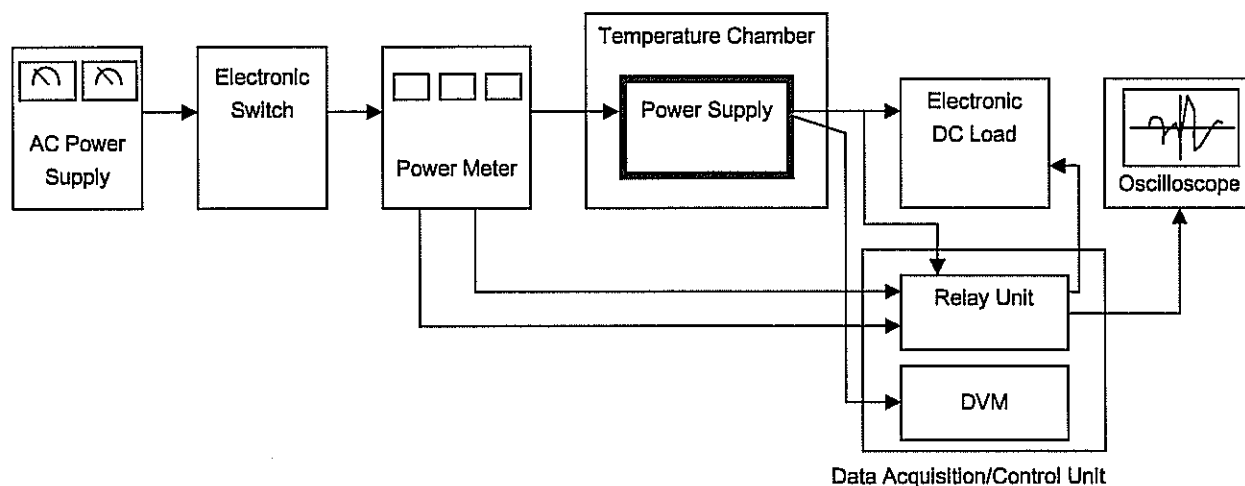


Figure A

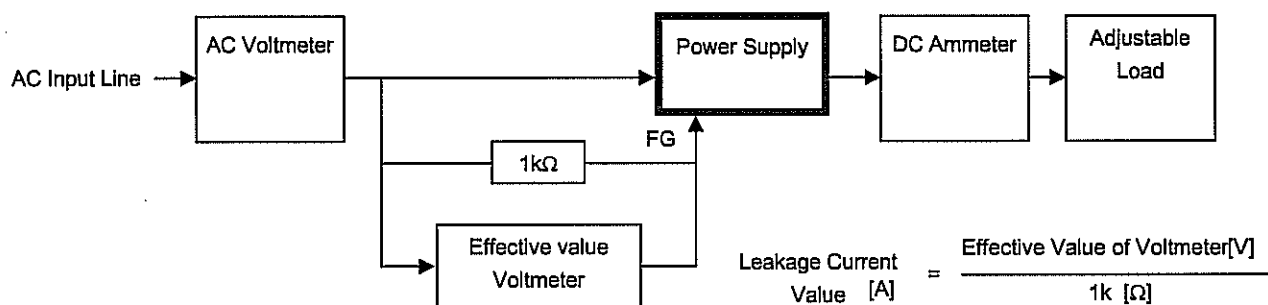


Figure B (DEN-AN)

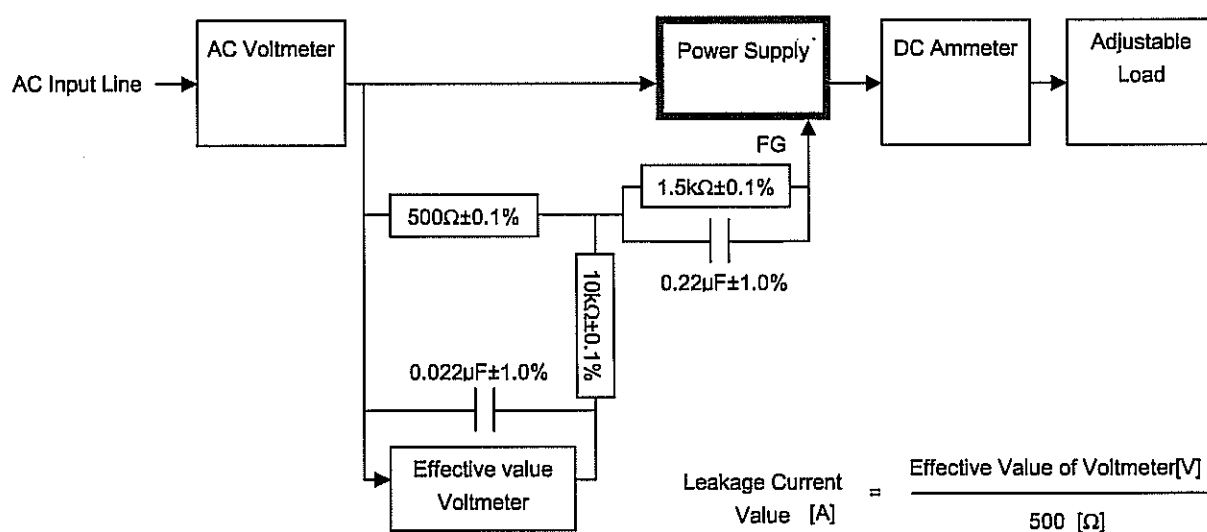


Figure B (IEC60950-1)

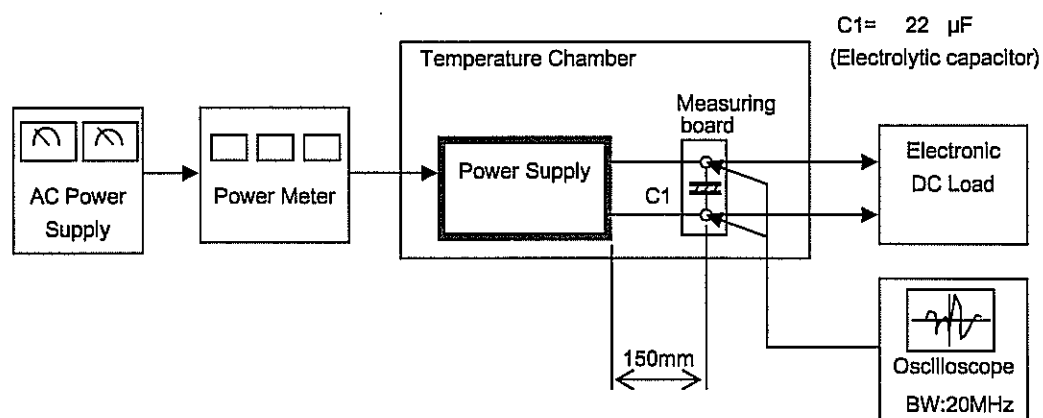


Figure C