



TEST DATA OF PBA10F-5

Regulated DC Power Supply
Sep 29, 2005

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Yoshiaki Shimizu
Yoshiaki Shimizu Design Engineer

COSEL CO.,LTD.



CONTENTS

1. Input Current (by Load Current)	1
2. Input Power (by Load Current)	2
3. Efficiency (by Input Voltage)	3
4. Efficiency (by Load Current)	4
5. Power Factor (by Input Voltage)	5
6. Power Factor (by Load Current)	6
7. Inrush Current	7
8. Leakage Current	8
9. Line Regulation	9
10. Load Regulation	10
11. Dynamic Load Response	11
12. Ripple Voltage (by Load Current)	12
13. Ripple-Noise	13
14. Ripple Voltage (by Ambient Temperature)	14
15. Ambient Temperature Drift	15
16. Output Voltage Accuracy	16
17. Time Lapse Drift	17
18. Rise and Fall Time	18
19. Hold-Up Time	19
20. Instantaneous Interruption Compensation	20
21. Minimum Input Voltage for Regulated Output Voltage	21
22. Overcurrent Protection	22
23. Overvoltage Protection	23
24. Figure of Testing Circuitry	24

(Final Page 24)

COSEL

Model	PBA10F-5																																																					
Item	Input Current (by Load Current)																																																					
Object	_____																																																					
1.Graph	<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 100V Input Volt. 200V Input Volt. 230V <p>Y-axis: Input Current [A]</p> <p>X-axis: Load Current [A]</p>																																																					
Temperature	25°C																																																					
Testing Circuitry	Figure A																																																					
2.Values	<table border="1"> <thead> <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. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.023</td><td>0.019</td><td>0.019</td></tr> <tr><td>0.4</td><td>0.072</td><td>0.048</td><td>0.044</td></tr> <tr><td>0.8</td><td>0.117</td><td>0.075</td><td>0.069</td></tr> <tr><td>1.2</td><td>0.160</td><td>0.101</td><td>0.092</td></tr> <tr><td>1.6</td><td>0.201</td><td>0.126</td><td>0.116</td></tr> <tr><td>2.0</td><td>0.242</td><td>0.151</td><td>0.138</td></tr> <tr><td>2.2</td><td>0.262</td><td>0.162</td><td>0.149</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.023	0.019	0.019	0.4	0.072	0.048	0.044	0.8	0.117	0.075	0.069	1.2	0.160	0.101	0.092	1.6	0.201	0.126	0.116	2.0	0.242	0.151	0.138	2.2	0.262	0.162	0.149	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Current [A]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	0.023	0.019	0.019																																																			
0.4	0.072	0.048	0.044																																																			
0.8	0.117	0.075	0.069																																																			
1.2	0.160	0.101	0.092																																																			
1.6	0.201	0.126	0.116																																																			
2.0	0.242	0.151	0.138																																																			
2.2	0.262	0.162	0.149																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note:	Slanted line shows the range of the rated load current.																																																					

COSEL

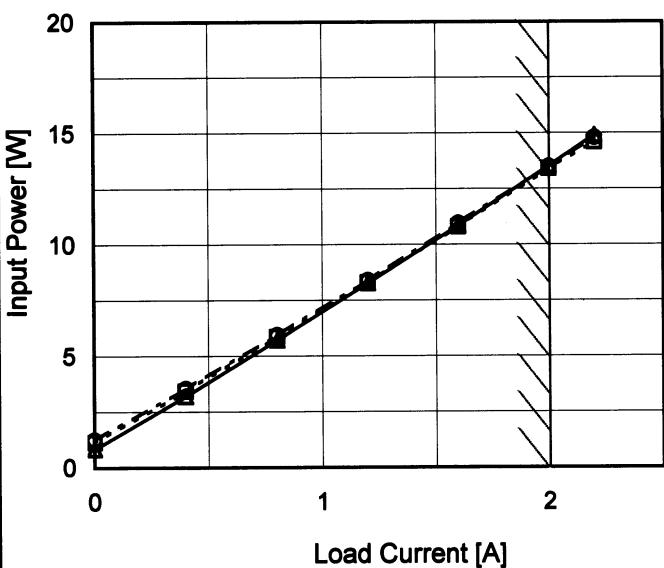
Model PBA10F-5

Item Input Power (by Load Current)

Object _____

1. Graph

—△— Input Volt. 100V
 - -□--- Input Volt. 200V
 - -○--- Input Volt. 230V



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

Temperature 25°C
 Testing Circuitry Figure A

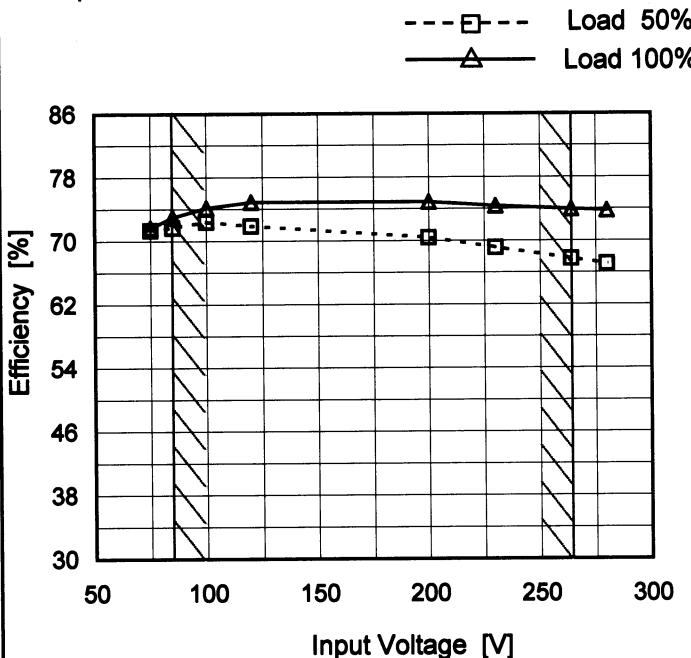
2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	0.83	1.13	1.25
0.4	3.21	3.43	3.55
0.8	5.72	5.86	5.95
1.2	8.27	8.30	8.40
1.6	10.86	10.80	10.96
2.0	13.54	13.40	13.50
2.2	14.91	14.60	14.80
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model	PBA10F-5
Item	Efficiency (by Input Voltage)
Object	

1. Graph



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	71.4	71.7
85	71.7	73.0
100	72.4	74.2
120	71.9	74.9
200	70.4	74.9
230	69.1	74.4
264	67.7	74.0
280	67.1	73.8
--	-	-

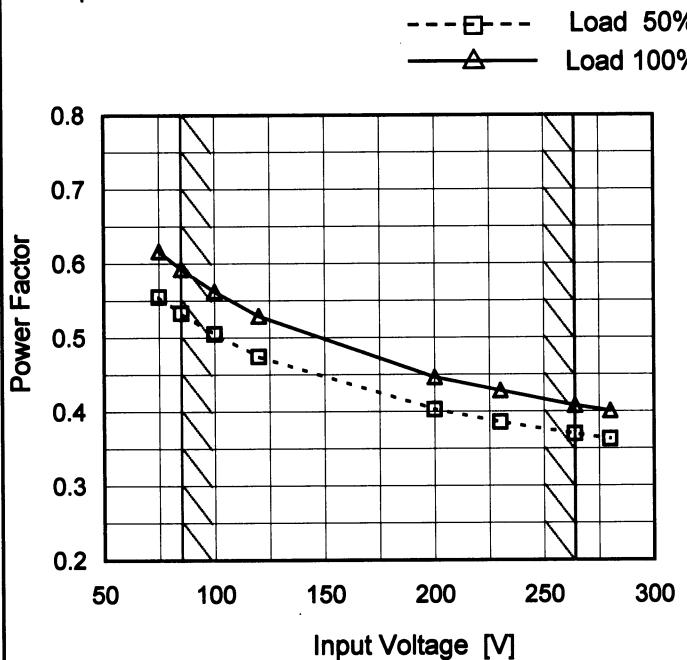
COSEL

Model	PBA10F-5																																																					
Item	Efficiency (by Load Current)																																																					
Object																																																						
1.Graph	<p>Legend: Input Volt. 100V (solid line with triangle), Input Volt. 200V (dashed line with square), Input Volt. 230V (dash-dot line with circle).</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>62.7</td><td>58.6</td><td>56.7</td></tr> <tr><td>0.8</td><td>70.3</td><td>68.6</td><td>67.6</td></tr> <tr><td>1.2</td><td>72.9</td><td>72.7</td><td>71.8</td></tr> <tr><td>1.6</td><td>74.0</td><td>74.4</td><td>73.4</td></tr> <tr><td>2.0</td><td>74.1</td><td>74.9</td><td>74.4</td></tr> <tr><td>2.2</td><td>74.0</td><td>75.7</td><td>74.6</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Load Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	0.4	62.7	58.6	56.7	0.8	70.3	68.6	67.6	1.2	72.9	72.7	71.8	1.6	74.0	74.4	73.4	2.0	74.1	74.9	74.4	2.2	74.0	75.7	74.6	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-			
Load Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	-	-	-																																																			
0.4	62.7	58.6	56.7																																																			
0.8	70.3	68.6	67.6																																																			
1.2	72.9	72.7	71.8																																																			
1.6	74.0	74.4	73.4																																																			
2.0	74.1	74.9	74.4																																																			
2.2	74.0	75.7	74.6																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>62.7</td><td>58.6</td><td>56.7</td></tr> <tr><td>0.8</td><td>70.3</td><td>68.6</td><td>67.6</td></tr> <tr><td>1.2</td><td>72.9</td><td>72.7</td><td>71.8</td></tr> <tr><td>1.6</td><td>74.0</td><td>74.4</td><td>73.4</td></tr> <tr><td>2.0</td><td>74.1</td><td>74.9</td><td>74.4</td></tr> <tr><td>2.2</td><td>74.0</td><td>75.7</td><td>74.6</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	0.4	62.7	58.6	56.7	0.8	70.3	68.6	67.6	1.2	72.9	72.7	71.8	1.6	74.0	74.4	73.4	2.0	74.1	74.9	74.4	2.2	74.0	75.7	74.6	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	-	-	-																																																			
0.4	62.7	58.6	56.7																																																			
0.8	70.3	68.6	67.6																																																			
1.2	72.9	72.7	71.8																																																			
1.6	74.0	74.4	73.4																																																			
2.0	74.1	74.9	74.4																																																			
2.2	74.0	75.7	74.6																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note:	Slanted line shows the range of the rated load current.																																																					

COSEL

Model	PBA10F-5
Item	Power Factor (by Input Voltage)
Object	

1. Graph



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.555	0.617
85	0.533	0.592
100	0.505	0.563
120	0.475	0.529
200	0.403	0.447
230	0.386	0.429
264	0.370	0.408
280	0.363	0.401
--	-	-

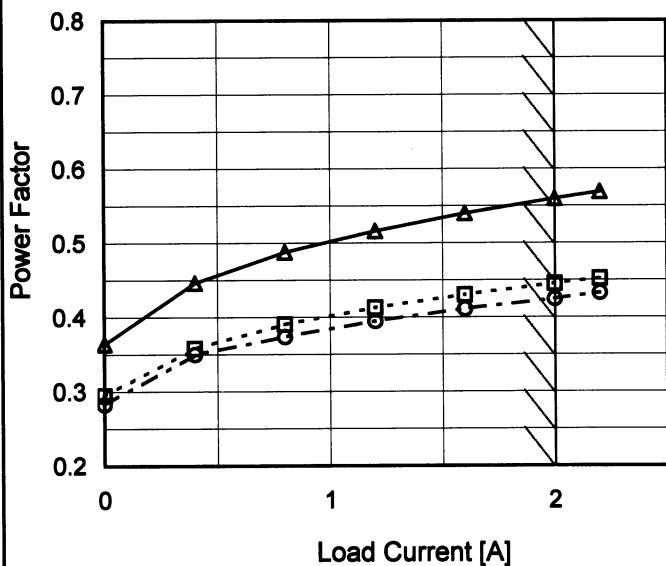
COSEL

Model PBA10F-5

Item Power Factor (by Load Current)

Object _____

1. Graph
- △— Input Volt. 100V
 - -□--- Input Volt. 200V
 - -○--- Input Volt. 230V



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

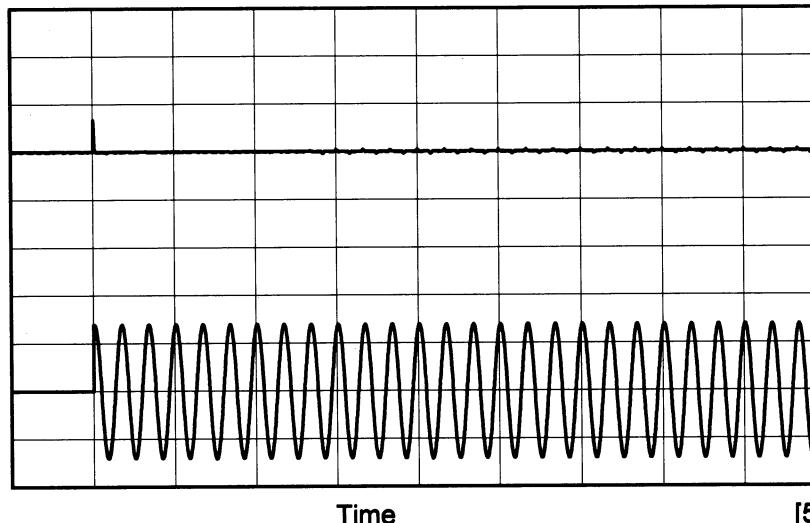
Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	0.364	0.295	0.283
0.4	0.446	0.358	0.350
0.8	0.488	0.390	0.374
1.2	0.517	0.413	0.395
1.6	0.540	0.430	0.411
2.0	0.560	0.445	0.425
2.2	0.569	0.452	0.433
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model PBA10F-5

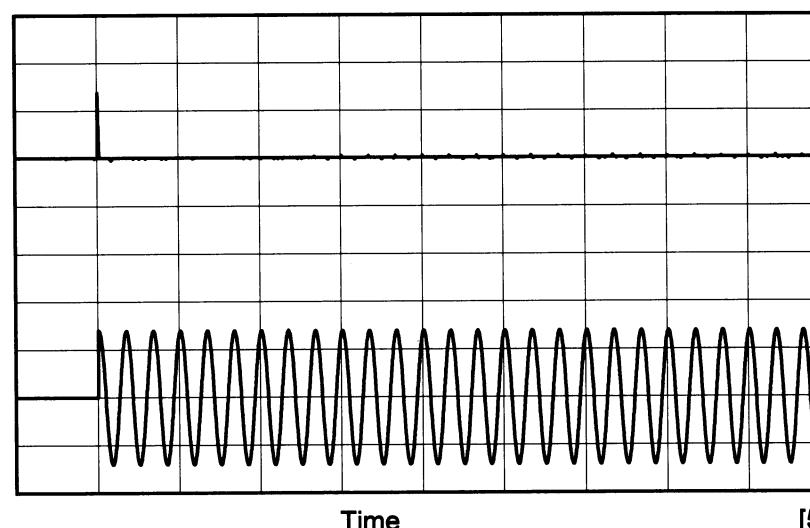
Item Inrush Current

Object

Temperature 25°C
Testing Circuitry Figure AInput
Current
[20A/div]Input
Voltage
[100V/div]

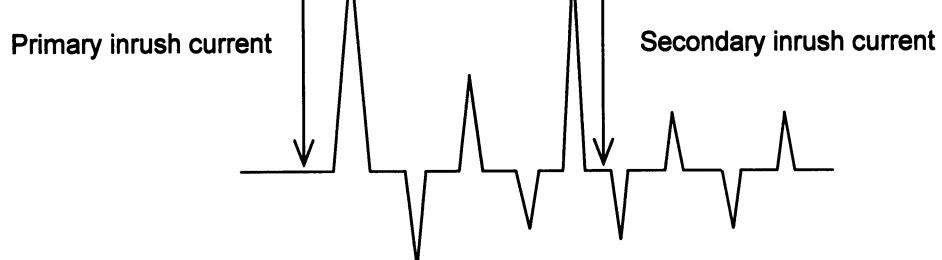
Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current : 13.3 A
Secondary inrush current : 0.9 A

Input
Current
[20A/div]Input
Voltage
[200V/div]

Input Voltage 200 V
Frequency 60 Hz
Load 100 %

Primary inrush current : 27.3 A
Secondary inrush current : 0.9 A





Model	PBA10F-5	Temperature Testing Circuitry Figure B
Item	Leakage Current	
Object	_____	

1. Results

Standards		Input Volt.			Note
		100 [V]	200 [V]	240 [V]	
DEN-AN	Both phases	0.05	0.11	0.13	Operation
	One of phase	0.09	0.21	0.25	stand by
IEC60950	Both phases	0.06	0.14	0.17	Operation
	One of phase	0.09	0.20	0.24	stand by

The value for "One of phase" 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.

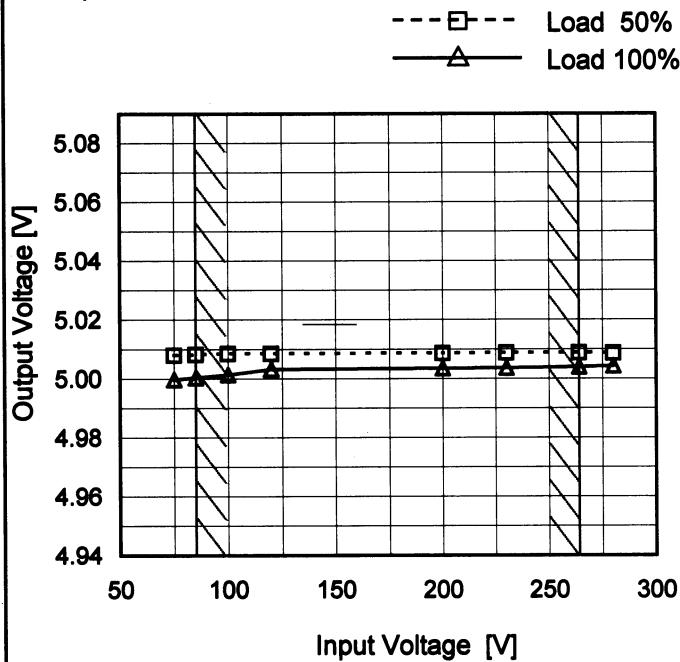
COSEL

Model PBA10F-5

Item Line Regulation

Object +5V2A

1. Graph



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

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	5.008	5.000
85	5.008	5.000
100	5.009	5.001
120	5.009	5.003
200	5.009	5.004
230	5.009	5.004
264	5.009	5.004
280	5.009	5.004
--	-	-

COSEL

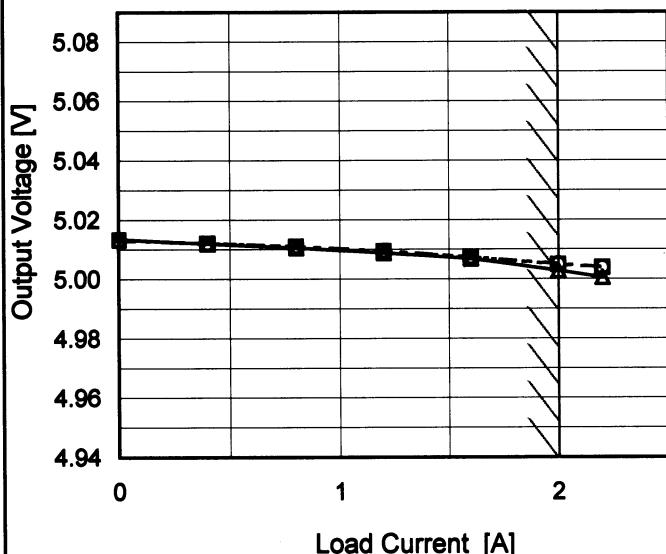
Model PBA10F-5

Item Load Regulation

Object +5V2A

1.Graph

—△— Input Volt. 100V
 - - □ - - Input Volt. 200V
 - - ○ - - Input Volt. 230V

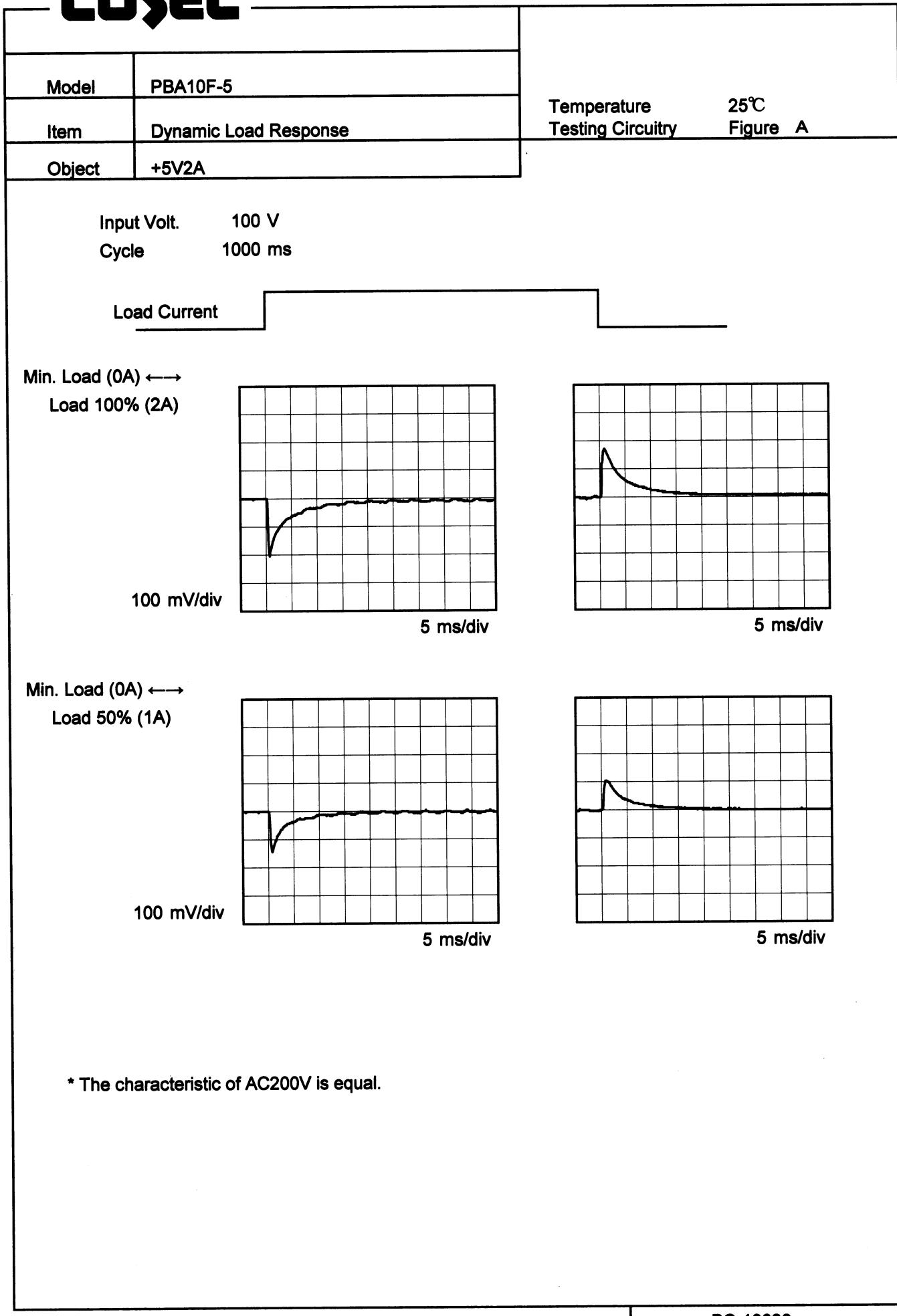


Note: Slanted line shows the range of the rated load current.

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	5.014	5.013	5.013
0.4	5.012	5.012	5.012
0.8	5.011	5.011	5.011
1.2	5.009	5.009	5.010
1.6	5.007	5.007	5.007
2.0	5.003	5.005	5.005
2.2	5.001	5.004	5.004
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

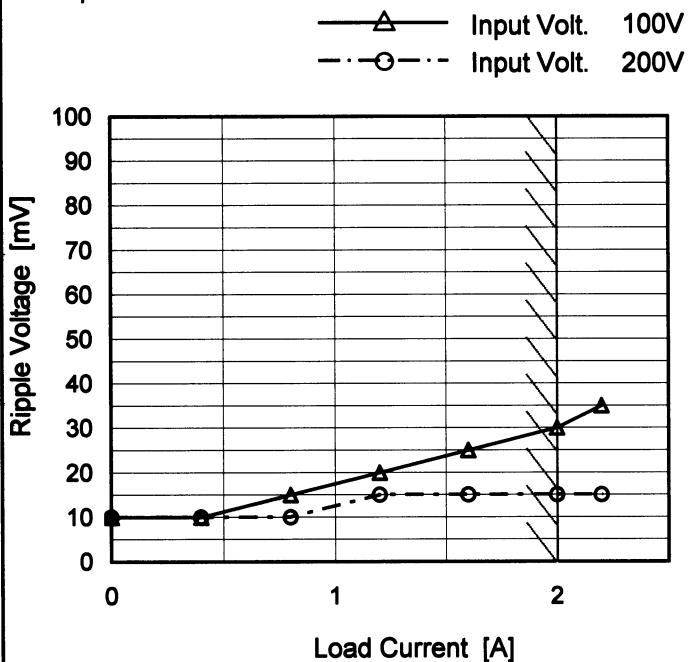
COSEL

COSEL

Model	PBA10F-5
Item	Ripple Voltage (by Load Current)
Object	+5V2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0.0	10	10
0.4	10	10
0.8	15	10
1.2	20	15
1.6	25	15
2.0	30	15
2.2	35	15
--	-	-
--	-	-
--	-	-
--	-	-

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.

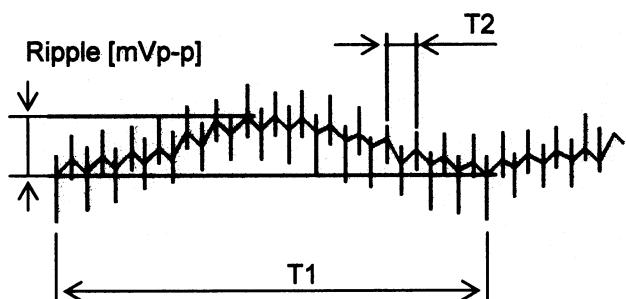
T1: Due to AC Input Line
T2: Due to Switching

Fig. Complex Ripple Wave Form

COSEL

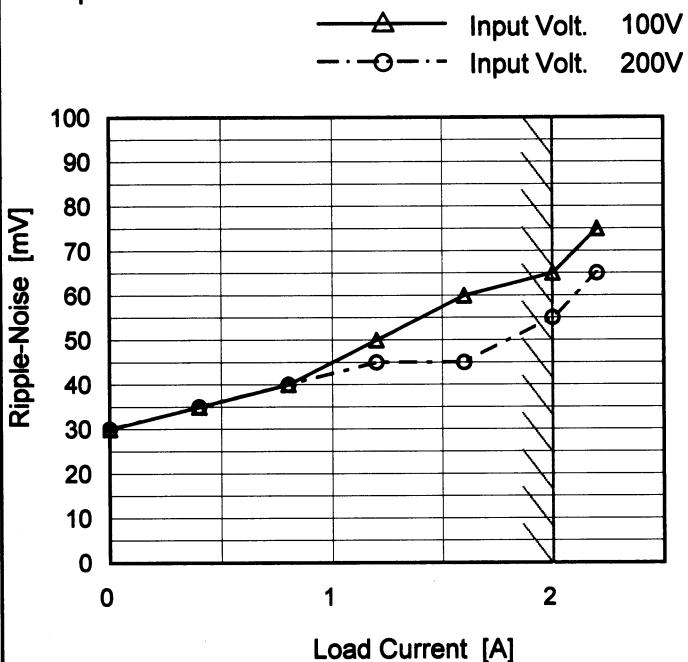
Model PBA10F-5

Item Ripple-Noise

Object +5V2A

Temperature 25°C
Testing Circuitry Figure A

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. 100 [V]	Input Volt. 200 [V]
0.0	30	30
0.4	35	35
0.8	40	40
1.2	50	45
1.6	60	45
2.0	65	55
2.2	75	65
--	-	-
--	-	-
--	-	-
--	-	-

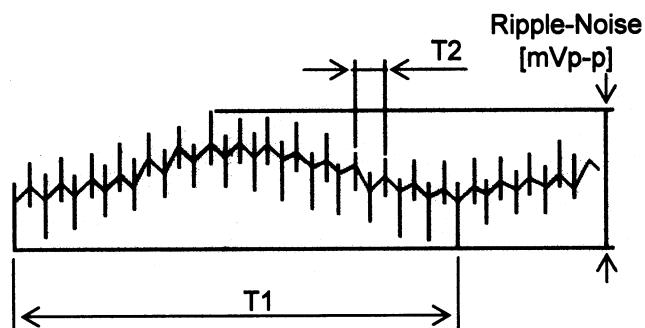
T1: Due to AC Input Line
T2: Due to Switching

Fig. Complex Ripple Wave Form

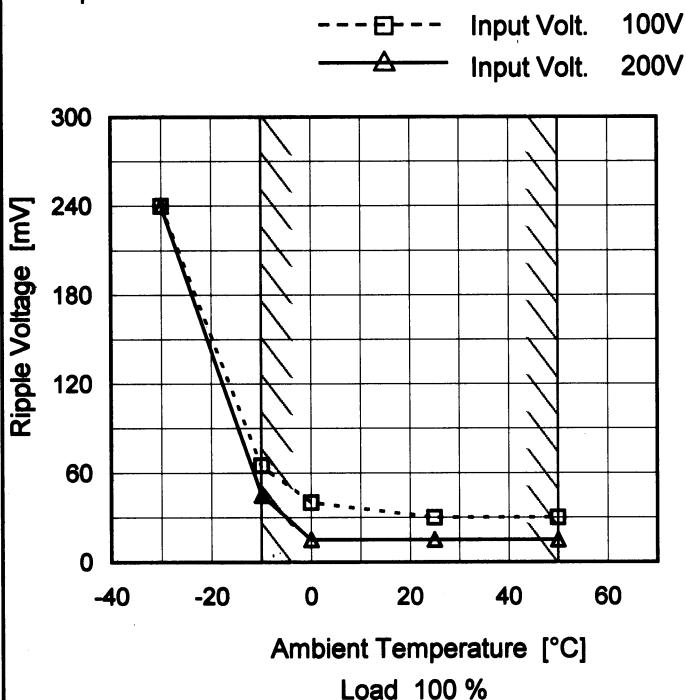
COSEL

Model PBA10F-5

Item Ripple Voltage (by Ambient Temp.)

Object +5V2A

1. Graph



Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-30	240	240
-10	65	45
0	40	15
25	30	15
50	30	15
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

Measured by 20 MHz Oscilloscope.

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

COSEL

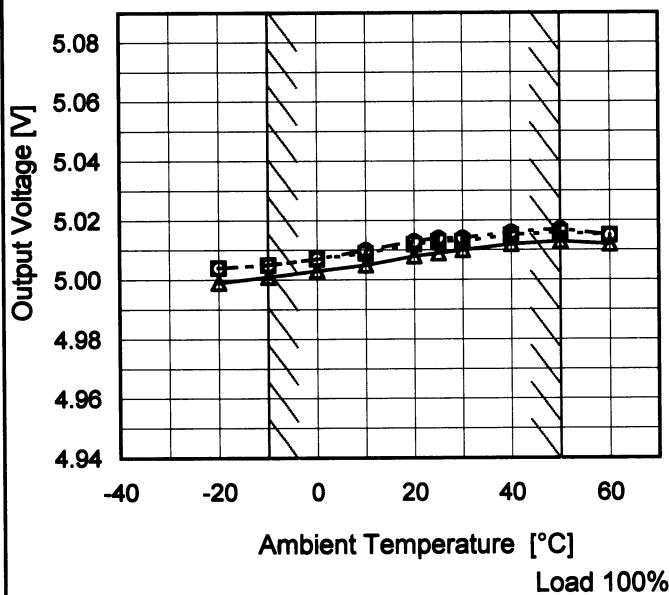
Model PBA10F-5

Item Ambient Temperature Drift

Object +5V2A

1. Graph

—△— Input Volt. 100V
 - - -□- - Input Volt. 200V
 - - ○ - - Input Volt. 230V



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
-20	4.999	5.004	5.004
-10	5.001	5.005	5.005
0	5.003	5.007	5.007
10	5.005	5.009	5.010
20	5.008	5.012	5.013
25	5.009	5.013	5.014
30	5.010	5.013	5.014
40	5.012	5.015	5.016
50	5.013	5.016	5.017
60	5.012	5.015	5.015
--	-	-	-



Model	PBA10F-5	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V2A	

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 : 85 - 264V

Load Current : 0 - 2A

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

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

2. Values

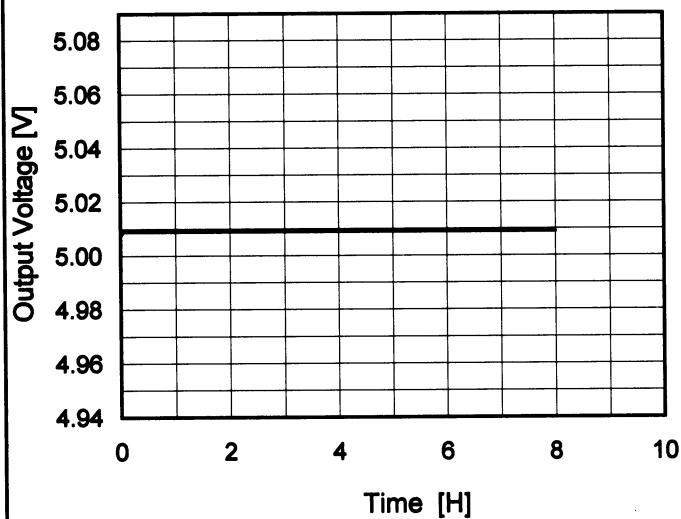
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	50	200	0	5.027	±12	±0.2
Minimum Voltage	-10	85	2	5.004		

COSEL

Model	PBA10F-5
Item	Time Lapse Drift
Object	+5V2A

Temperature 25°C
 Testing Circuitry Figure A

1. Graph



Input Volt. 100V
 Load 100%

2. Values

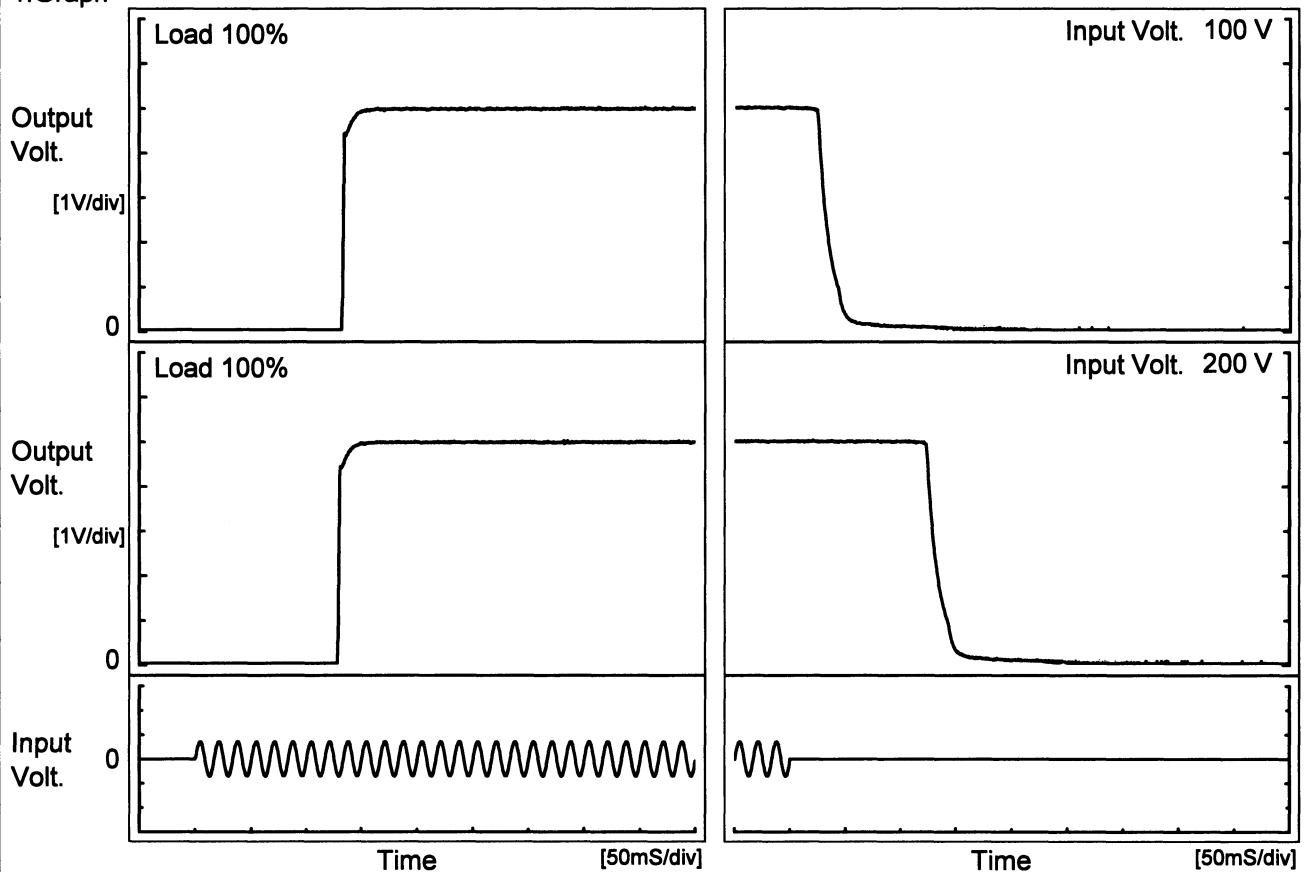
Time since start [H]	Output Voltage [V]
0.0	5.008
0.5	5.009
1.0	5.009
2.0	5.009
3.0	5.009
4.0	5.009
5.0	5.009
6.0	5.009
7.0	5.009
8.0	5.009

* The characteristic of AC200V is equal.

COSEL

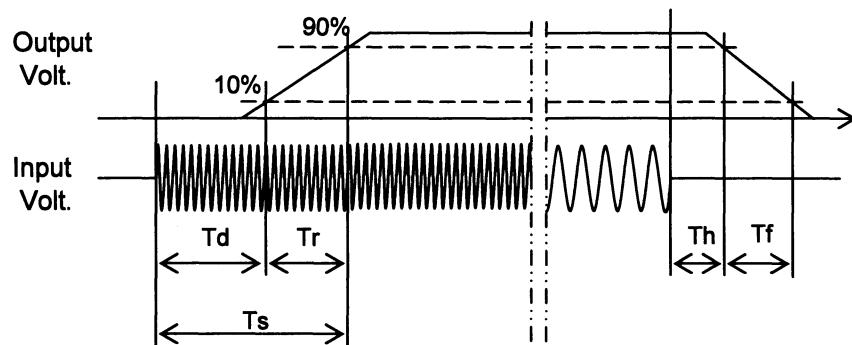
Model	PBA10F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V2A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf	[mS]
100 V		132.0	6.0	138.0	25.3	21.3	
200 V		128.3	6.0	134.3	124.3	22.0	



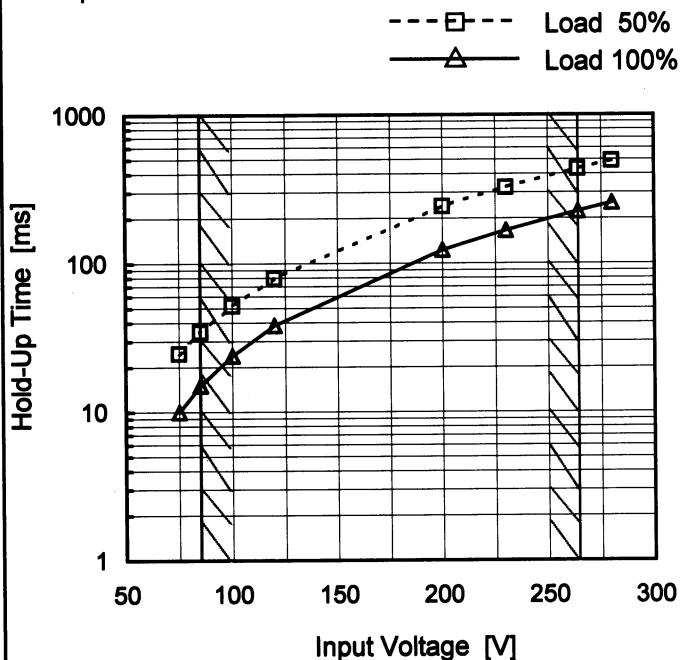
COSEL

Model PBA10F-5

Item Hold-Up Time

Object +5V2A

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.

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
75	25	10
85	35	15
100	52	24
120	80	38
200	242	123
230	324	167
264	432	225
280	489	256
--	-	-

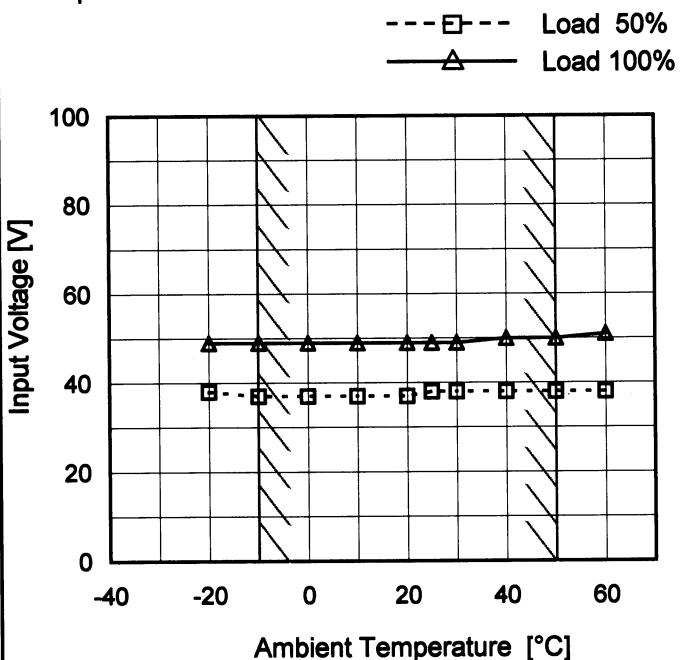
COSEL

Model	PBA10F-5	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation	Testing Circuitry	Figure A																																																			
Object	+5V2A																																																					
1.Graph	<p>—△— Input Volt. 100V - -□--- Input Volt. 200V - -○--- Input Volt. 230V</p> <table border="1"> <caption>Data points estimated from Graph 1</caption> <thead> <tr> <th>Load Current [A]</th> <th>100V [ms]</th> <th>200V [ms]</th> <th>230V [ms]</th> </tr> </thead> <tbody> <tr><td>0.4</td><td>114</td><td>489</td><td>714</td></tr> <tr><td>0.8</td><td>64</td><td>300</td><td>414</td></tr> <tr><td>1.2</td><td>46</td><td>214</td><td>289</td></tr> <tr><td>1.6</td><td>31</td><td>164</td><td>214</td></tr> <tr><td>2.0</td><td>23</td><td>130</td><td>180</td></tr> <tr><td>2.2</td><td>22</td><td>112</td><td>163</td></tr> </tbody> </table>			Load Current [A]	100V [ms]	200V [ms]	230V [ms]	0.4	114	489	714	0.8	64	300	414	1.2	46	214	289	1.6	31	164	214	2.0	23	130	180	2.2	22	112	163																							
Load Current [A]	100V [ms]	200V [ms]	230V [ms]																																																			
0.4	114	489	714																																																			
0.8	64	300	414																																																			
1.2	46	214	289																																																			
1.6	31	164	214																																																			
2.0	23	130	180																																																			
2.2	22	112	163																																																			
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>114</td><td>489</td><td>714</td></tr> <tr><td>0.8</td><td>64</td><td>300</td><td>414</td></tr> <tr><td>1.2</td><td>46</td><td>214</td><td>289</td></tr> <tr><td>1.6</td><td>31</td><td>164</td><td>214</td></tr> <tr><td>2.0</td><td>23</td><td>130</td><td>180</td></tr> <tr><td>2.2</td><td>22</td><td>112</td><td>163</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>			Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	0.4	114	489	714	0.8	64	300	414	1.2	46	214	289	1.6	31	164	214	2.0	23	130	180	2.2	22	112	163	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	-	-	-																																																			
0.4	114	489	714																																																			
0.8	64	300	414																																																			
1.2	46	214	289																																																			
1.6	31	164	214																																																			
2.0	23	130	180																																																			
2.2	22	112	163																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			
Note:	Slanted line shows the range of the rated load current.																																																					

COSEL

Model	PBA10F-5
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V2A

1. Graph



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

Testing Circuitry Figure A

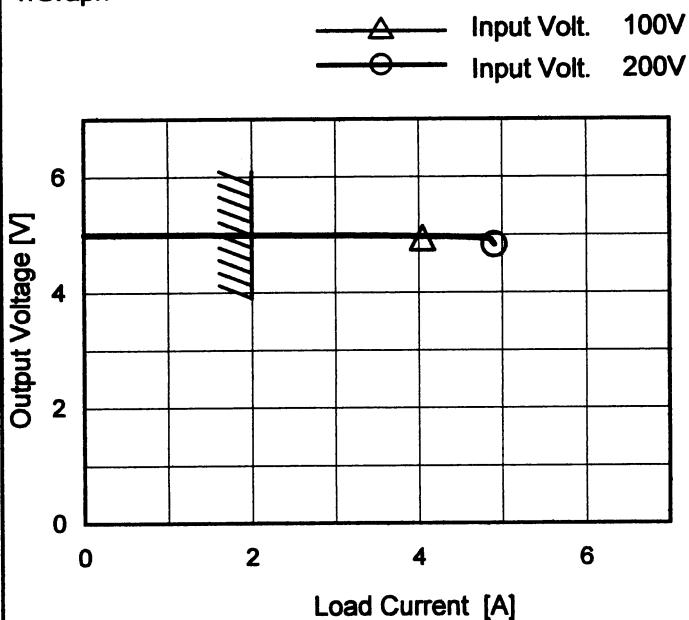
2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	38	49
-10	37	49
0	37	49
10	37	49
20	37	49
25	38	49
30	38	49
40	38	50
50	38	50
60	38	51
--	-	-

COSEL

Model	PBA10F-5
Item	Overcurrent Protection
Object	+5V2A

1. Graph



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

Intermittent operation occurs when the output voltage is less than rated output voltage.

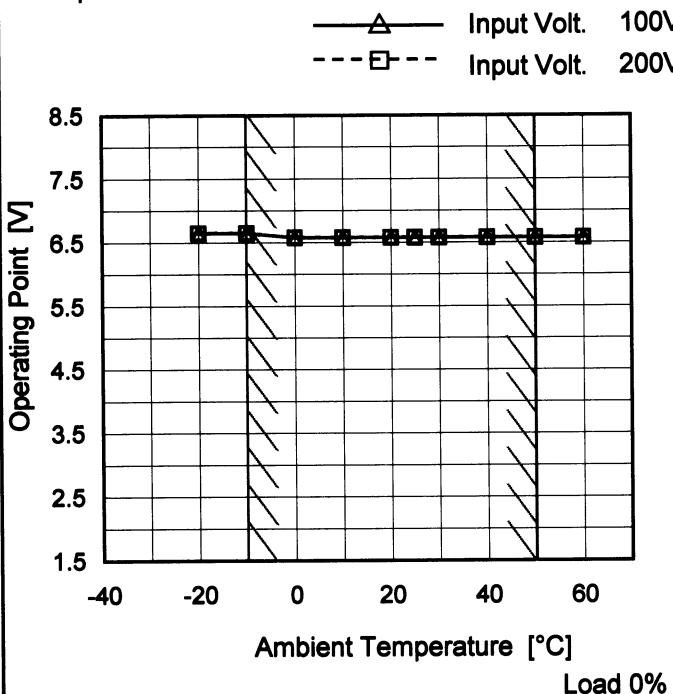
Temperature 25°C
Testing Circuitry Figure A

2. Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 200[V]
5.00	4.05	4.91
4.75	-	-
4.50	-	-
4.00	-	-
3.50	-	-
3.00	-	-
2.50	-	-
2.00	-	-
1.50	-	-
1.00	-	-
0.50	-	-
0.00	-	-

Model	PBA10F-5
Item	Overvoltage Protection
Object	+5V2A

1. Graph



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-20	6.65	6.65
-10	6.65	6.65
0	6.58	6.58
10	6.58	6.58
20	6.58	6.58
25	6.58	6.58
30	6.58	6.58
40	6.58	6.58
50	6.58	6.58
60	6.58	6.58
--	-	-

COSEL

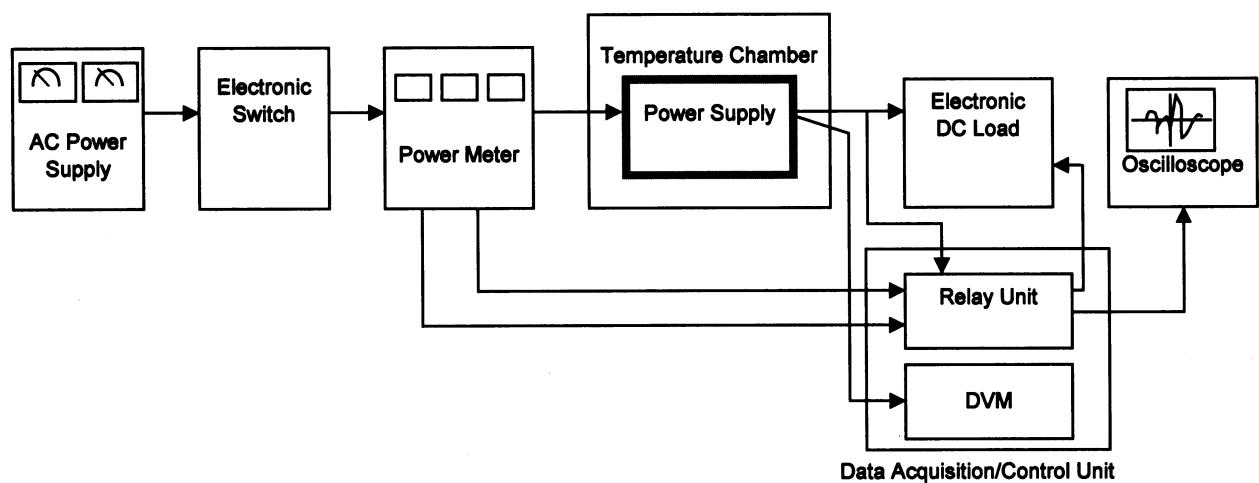


Figure A

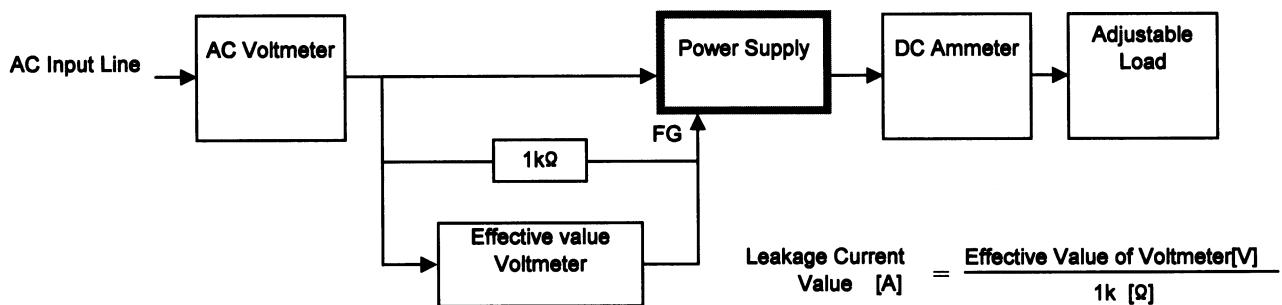


Figure B (DEN-AN)

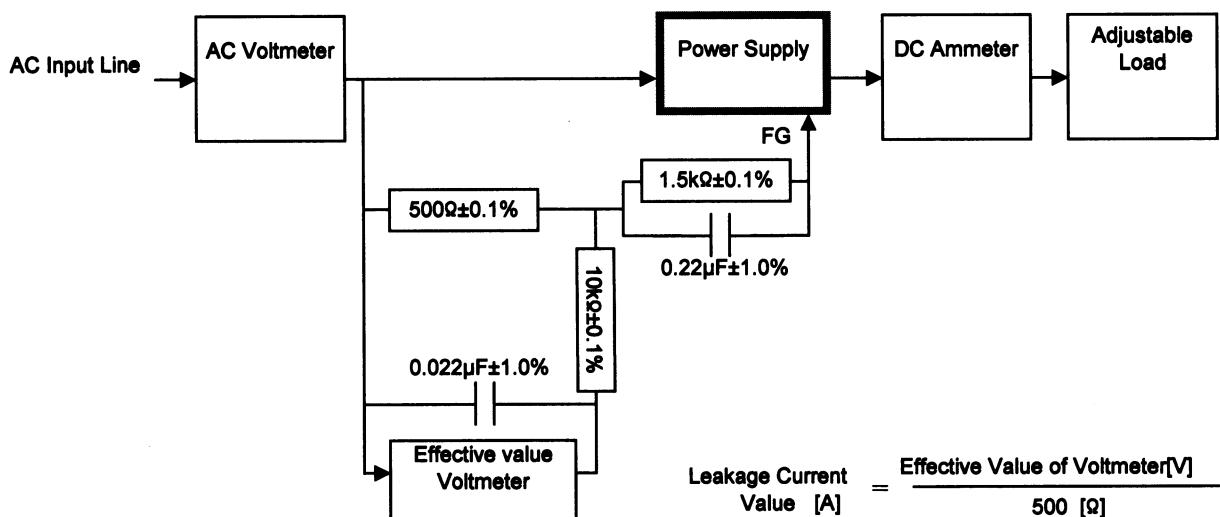


Figure B (IEC60950)