



TEST DATA OF PBA600F-7R5

Regulated DC Power Supply
Sep.27. 2003

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Haruki Morita
Haruki Morita Design Engineer

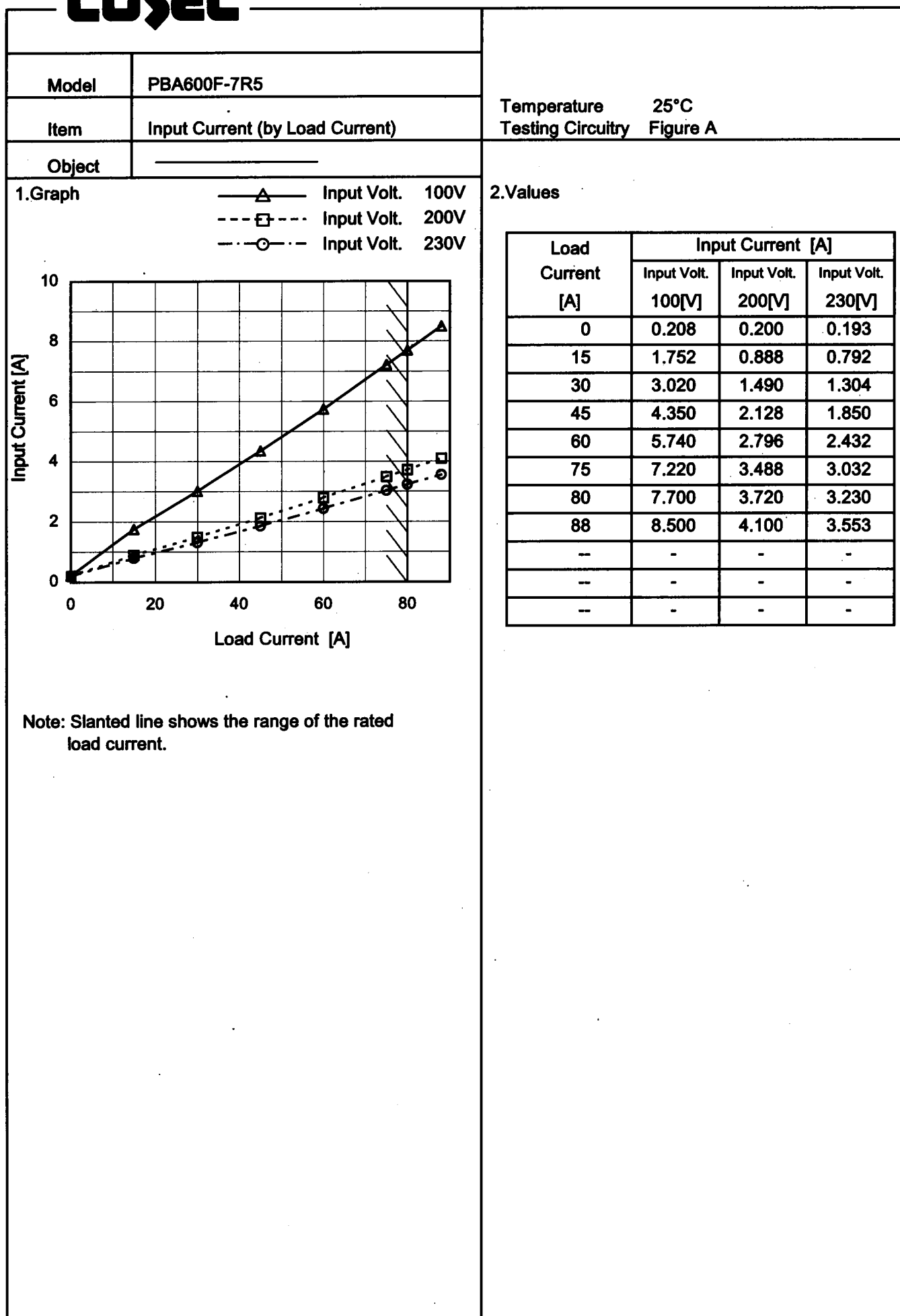
COSEL CO.,LTD.

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



COSEL

Model		PBA600F-7R5		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Input Power (by Load Current)																																																						
Object																																																								
1.Graph				2.Values																																																				
<div><div><div><div><div></div></div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div></div> <div><p>Input Power [W]</p><p>Load Current [A]</p></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. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>15.9</td><td>16.0</td><td>14.0</td></tr><tr><td>15</td><td>173.1</td><td>169.0</td><td>167.0</td></tr><tr><td>30</td><td>299.3</td><td>292.0</td><td>289.0</td></tr><tr><td>45</td><td>431.0</td><td>420.0</td><td>416.0</td></tr><tr><td>60</td><td>571.0</td><td>554.0</td><td>550.0</td></tr><tr><td>75</td><td>719.0</td><td>692.0</td><td>688.0</td></tr><tr><td>80</td><td>766.0</td><td>739.0</td><td>734.0</td></tr><tr><td>88</td><td>846.0</td><td>814.0</td><td>808.0</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. 200[V]	Input Volt. 230[V]	0	15.9	16.0	14.0	15	173.1	169.0	167.0	30	299.3	292.0	289.0	45	431.0	420.0	416.0	60	571.0	554.0	550.0	75	719.0	692.0	688.0	80	766.0	739.0	734.0	88	846.0	814.0	808.0	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Power [W]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0	15.9	16.0	14.0																																																					
15	173.1	169.0	167.0																																																					
30	299.3	292.0	289.0																																																					
45	431.0	420.0	416.0																																																					
60	571.0	554.0	550.0																																																					
75	719.0	692.0	688.0																																																					
80	766.0	739.0	734.0																																																					
88	846.0	814.0	808.0																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								

COSEL

Model		PBA600F-7R5		Temperature Testing Circuitry	25°C Figure A
Item		Efficiency (by Input Voltage)			
Object					

1.Graph

Load 50%

Load 100%

Efficiency [%]

100

92

84

76

68

60

52

44

50

100

150

200

250

300

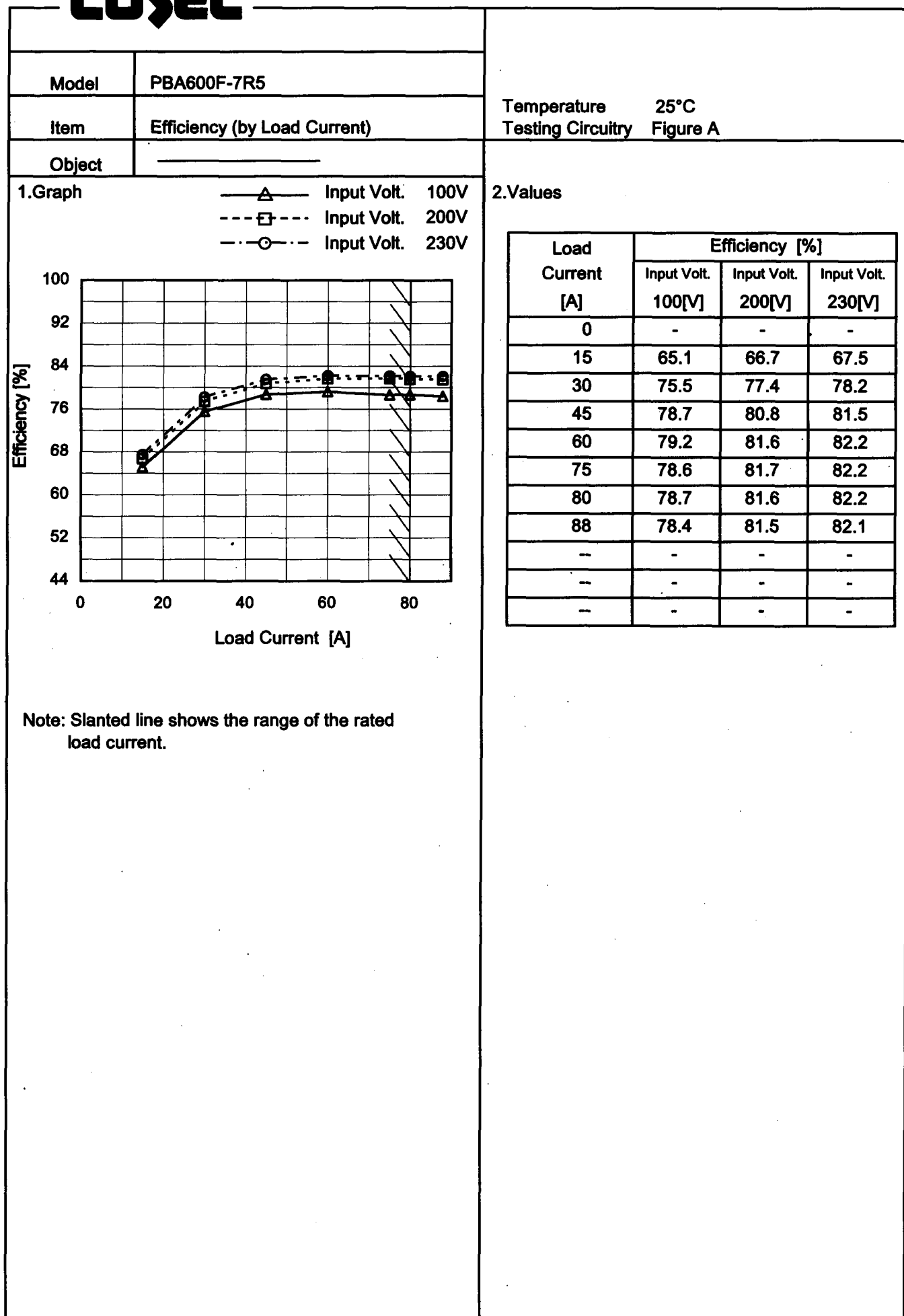
Input Voltage [V]

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

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
77	74.4	76.8
85	77.2	78.3
100	77.9	78.8
120	78.6	79.7
200	80.0	81.7
230	80.6	82.3
264	81.5	82.9
280	81.9	83.4
--	-	-

COSEL



COSEL

LOVEL

Model	PBA600F-7R5
Item	Power Factor (by Input Voltage)
Object	_____

1.Graph

Legend:

- Load 50%
- △--- Load 100%

Input Voltage [V]	Power Factor (Load 50%)	Power Factor (Load 100%)
77	0.990	0.989
85	0.993	0.991
100	0.993	0.997
120	0.995	0.997
200	0.984	0.993
230	0.977	0.988
264	0.954	0.977
280	0.880	0.934

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

Temperature 25°C
Testing Circuitry Figure A

2.Values

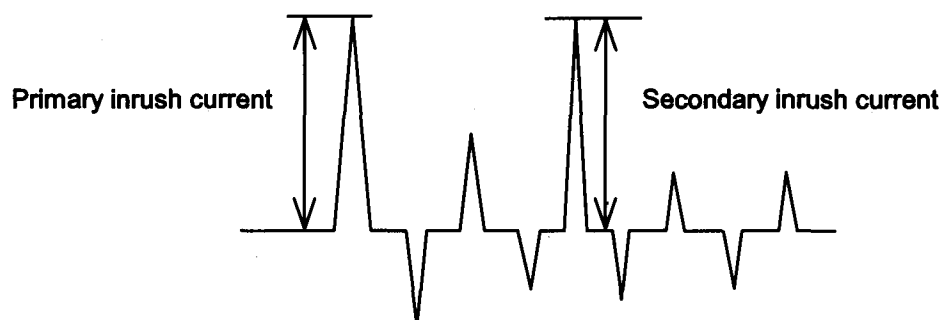
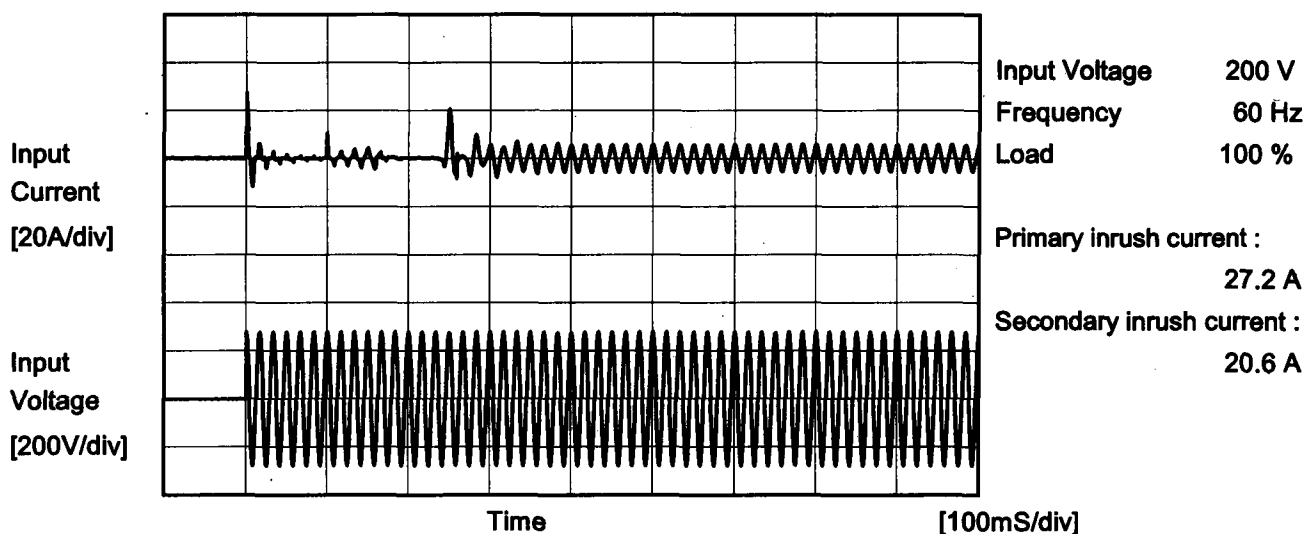
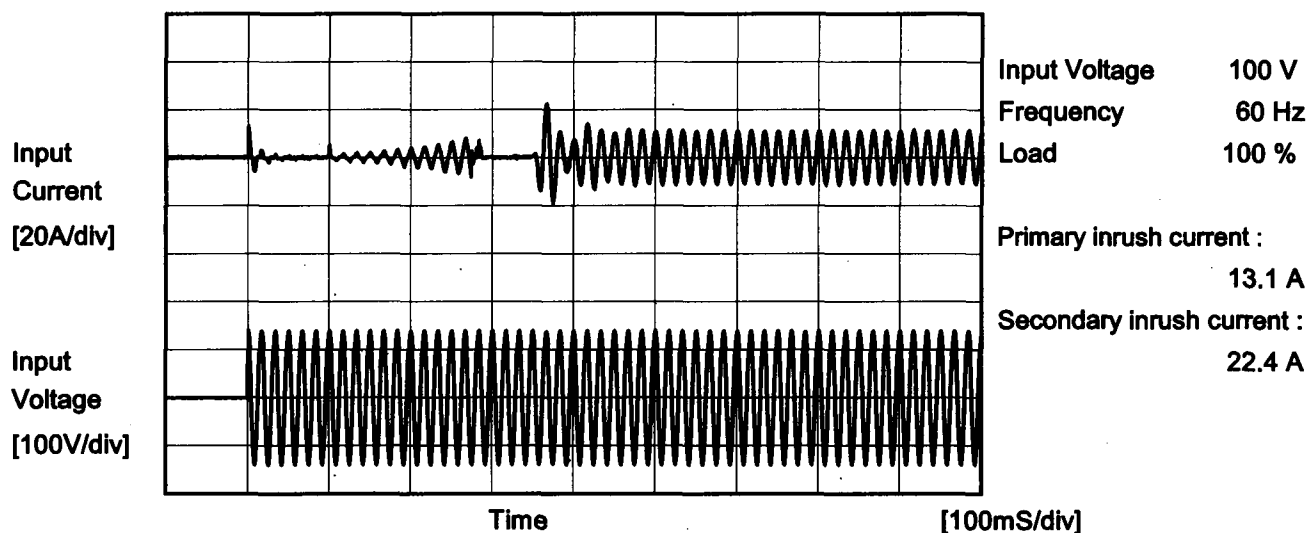
Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
77	0.990	0.989
85	0.993	0.991
100	0.993	0.997
120	0.995	0.997
200	0.984	0.993
230	0.977	0.988
264	0.954	0.977
280	0.880	0.934
--	-	-

COSEL

Model	PBA600F-7R5	Temperature25°C Testing CircuitryFigure A																																																					
Item	Power Factor (by Load Current)																																																						
Object	_____																																																						
1.Graph		2.Values																																																					
<div><div><div>—△— Input Volt. 100V</div><div>- - -□- - - Input Volt. 200V</div><div>- · -○- · - Input Volt. 230V</div></div><div>Power Factor</div><div>Load Current [A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>0.764</td><td>0.400</td><td>0.318</td></tr><tr><td>15</td><td>0.989</td><td>0.955</td><td>0.918</td></tr><tr><td>30</td><td>0.993</td><td>0.980</td><td>0.963</td></tr><tr><td>45</td><td>0.993</td><td>0.988</td><td>0.979</td></tr><tr><td>60</td><td>0.997</td><td>0.991</td><td>0.984</td></tr><tr><td>75</td><td>0.999</td><td>0.993</td><td>0.989</td></tr><tr><td>80</td><td>0.999</td><td>0.993</td><td>0.989</td></tr><tr><td>88</td><td>0.998</td><td>0.994</td><td>0.990</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]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	0.764	0.400	0.318	15	0.989	0.955	0.918	30	0.993	0.980	0.963	45	0.993	0.988	0.979	60	0.997	0.991	0.984	75	0.999	0.993	0.989	80	0.999	0.993	0.989	88	0.998	0.994	0.990	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Power Factor																																																						
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																				
0	0.764	0.400	0.318																																																				
15	0.989	0.955	0.918																																																				
30	0.993	0.980	0.963																																																				
45	0.993	0.988	0.979																																																				
60	0.997	0.991	0.984																																																				
75	0.999	0.993	0.989																																																				
80	0.999	0.993	0.989																																																				
88	0.998	0.994	0.990																																																				
--	-	-	-																																																				
--	-	-	-																																																				
--	-	-	-																																																				
Note: Slanted line shows the range of the rated load current.																																																							

COSEL

Model		PBA600F-7R5	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	





Model		PBA600F-7R5	Temperature 25°C Testing Circuitry Figure B
Item		Leakage Current	
Object			

1.Results

[mA]

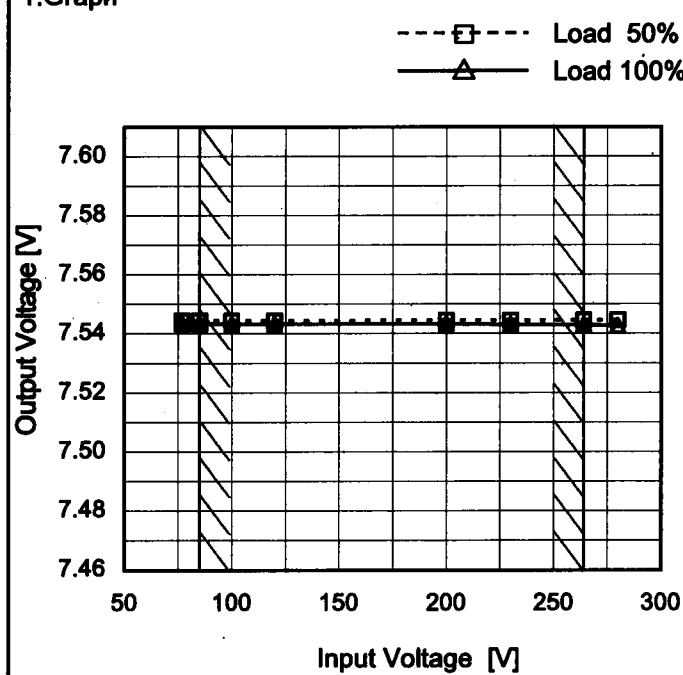
Standards		Input Volt.			Note
		100[V]	200[V]	240[V]	
DEN-AN	Both phases	0.30	0.47	0.58	Operation
	One of phase	0.38	0.77	0.98	stand by
IEC60950	Both phases	0.24	0.42	0.56	Operation
	One of phase	0.34	0.77	0.91	stand by

The value for "One 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	PBA600F-7R5	Temperature 25°C Testing Circuitry Figure A																																	
Item	Line Regulation																																		
Object	+7.5V80A																																		
1.Graph		2.Values																																	
<div><div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>77</td><td>7.544</td><td>7.543</td></tr><tr><td>85</td><td>7.544</td><td>7.543</td></tr><tr><td>100</td><td>7.544</td><td>7.543</td></tr><tr><td>120</td><td>7.544</td><td>7.543</td></tr><tr><td>200</td><td>7.545</td><td>7.543</td></tr><tr><td>230</td><td>7.545</td><td>7.543</td></tr><tr><td>264</td><td>7.545</td><td>7.543</td></tr><tr><td>280</td><td>7.545</td><td>7.543</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	77	7.544	7.543	85	7.544	7.543	100	7.544	7.543	120	7.544	7.543	200	7.545	7.543	230	7.545	7.543	264	7.545	7.543	280	7.545	7.543	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
77	7.544	7.543																																	
85	7.544	7.543																																	
100	7.544	7.543																																	
120	7.544	7.543																																	
200	7.545	7.543																																	
230	7.545	7.543																																	
264	7.545	7.543																																	
280	7.545	7.543																																	
--	-	-																																	

COSEL

Model

PBA600F-7R5

Item

Load Regulation

Object

+7.5V80A

Temperature

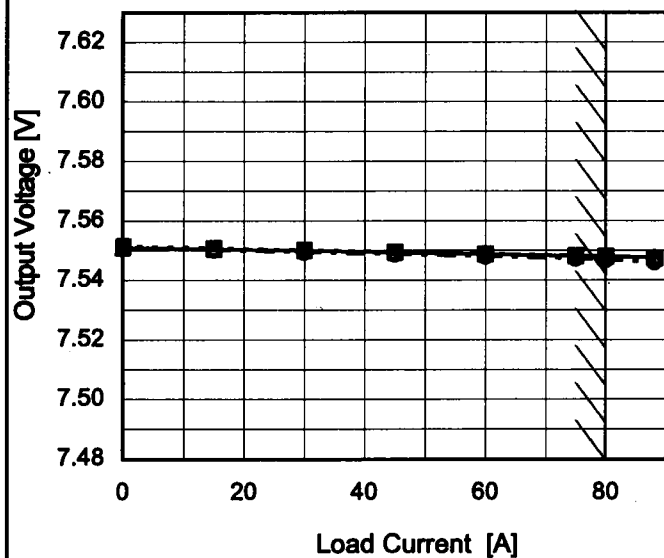
25°C

Testing Circuitry

Figure A

1. Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 -·-○-·- 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. 200[V]	Input Volt. 230[V]
0	7.551	7.551	7.551
15	7.551	7.551	7.550
30	7.550	7.550	7.549
45	7.549	7.550	7.549
60	7.549	7.549	7.548
75	7.548	7.548	7.547
80	7.548	7.548	7.547
88	7.548	7.548	7.546
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

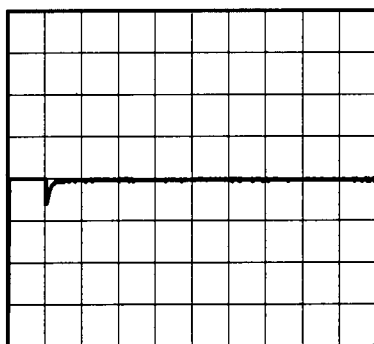
Model	PBA600F-7R5		
Item	Dynamic Load Response	Temperature	25°C
Object	+7.5V80A	Testing Circuitry	Figure A

Input Volt. 100 V
Cycle 1000 mS

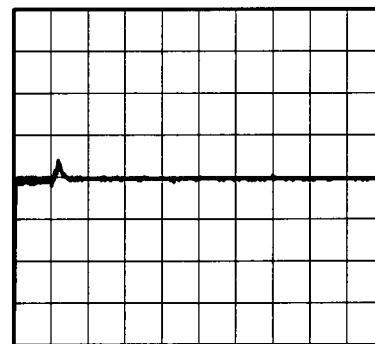
Load Current

Min.Load (0A) ←→
Load 100% (80A)

100mV/div



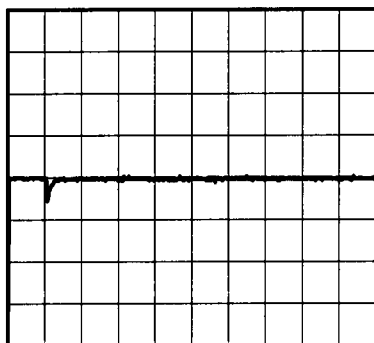
10ms/div



10ms/div

Min.Load (0A) ←→
Load 50% (40A)

100mV/div

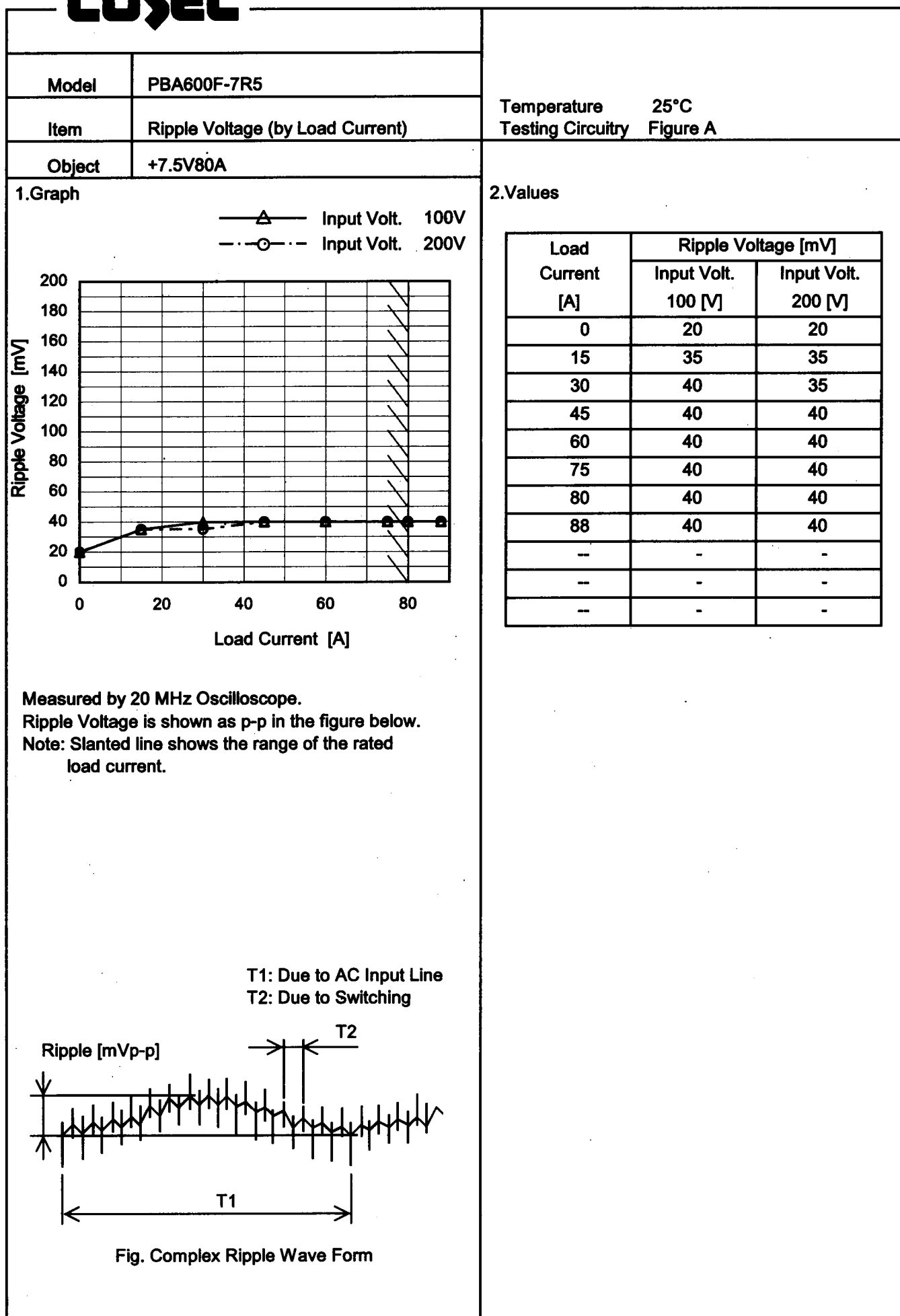


10ms/div

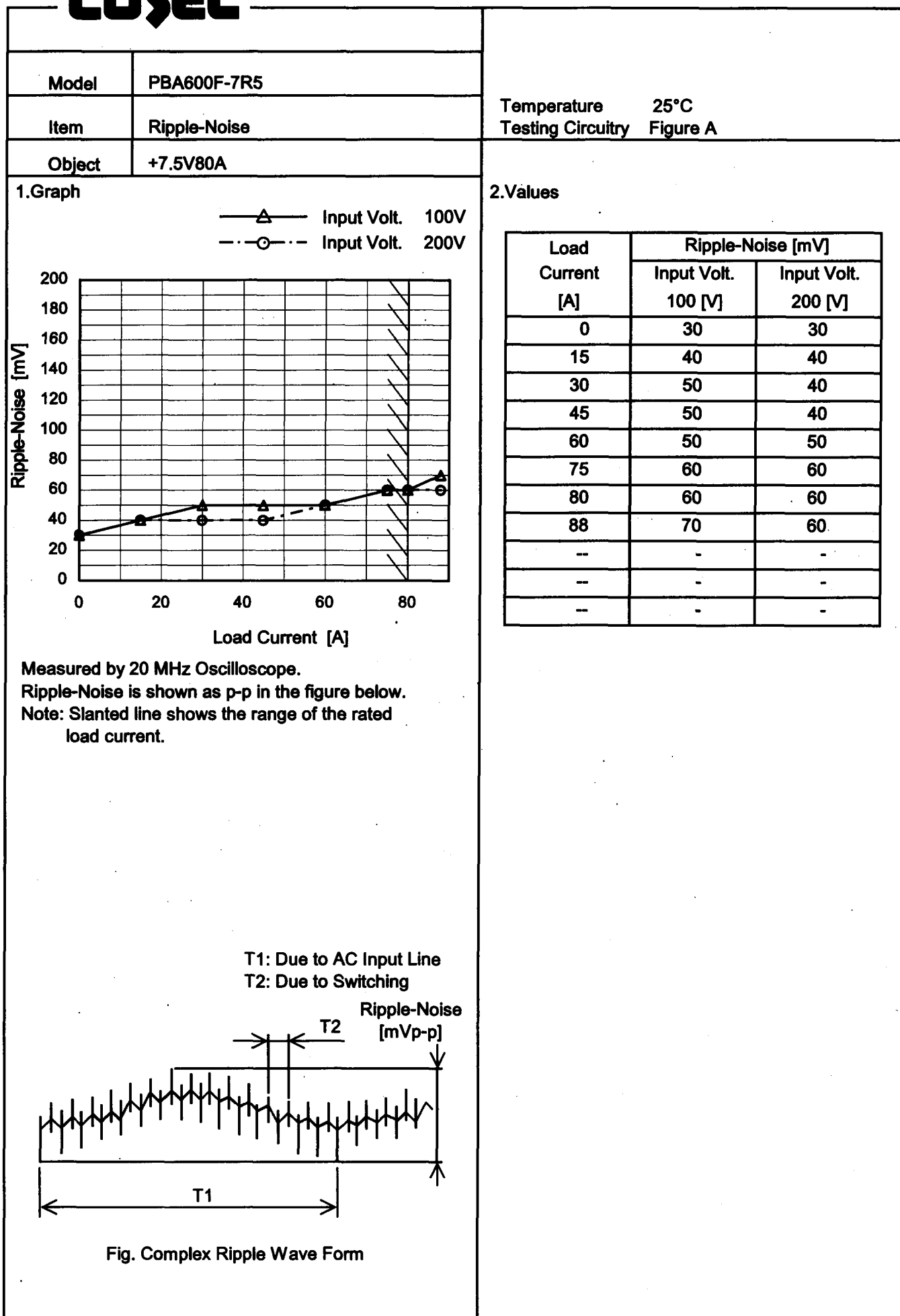


10ms/div

* The characteristic of AC200V is equal.

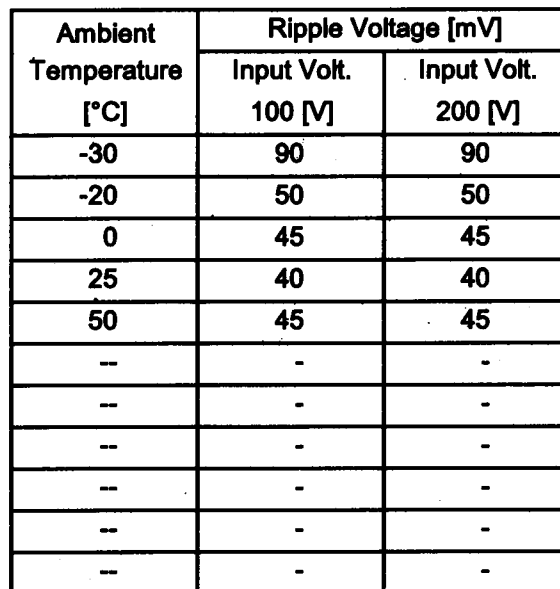
COSEL

COSEL



[illegible]

2.Values



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

COSEL

Model

PBA600F-7R5

Item

Ambient Temperature Drift

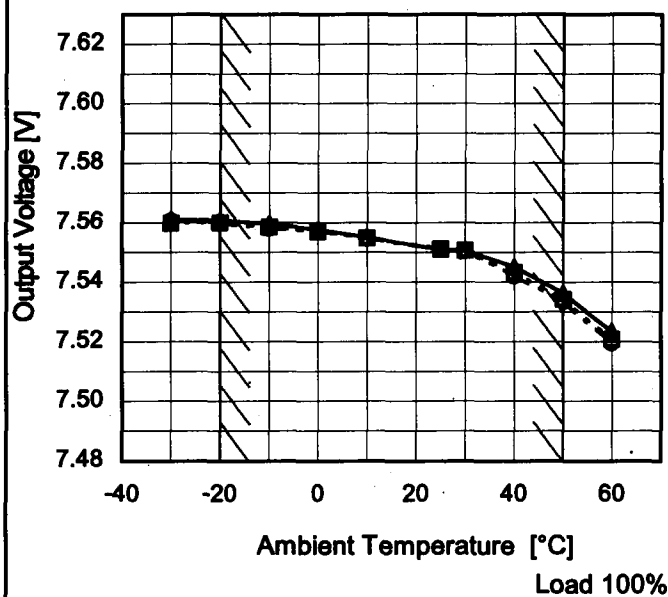
Object

+7.5V80A

Testing Circuitry Figure A

1.Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 ---○--- 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. 200[V]	Input Volt. 230[V]
-30	7.561	7.560	7.561
-20	7.561	7.560	7.560
-10	7.560	7.559	7.558
0	7.558	7.557	7.557
10	7.555	7.555	7.555
25	7.551	7.551	7.551
30	7.551	7.551	7.551
40	7.545	7.543	7.542
50	7.536	7.534	7.534
60	7.523	7.521	7.520
--	-	-	-

COSEL

		Testing Circuitry Figure A
Model	PBA600F-7R5	
Item	Output Voltage Accuracy	
Object	+7.5V80A	

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 : 85 - 264V

Load Current : 0 - 80A

* 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	85	0	7.563	±17	±0.2
Minimum Voltage	50	264	80	7.529		

COSEL

Model		PBA600F-7R5		Temperature25°C Testing CircuitryFigure A
Item		Time Lapse Drift		
Object		+7.5V80A		
1.Graph				
<div><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></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div></div>				

COSEL

Model

PBA600F-7R5

Item

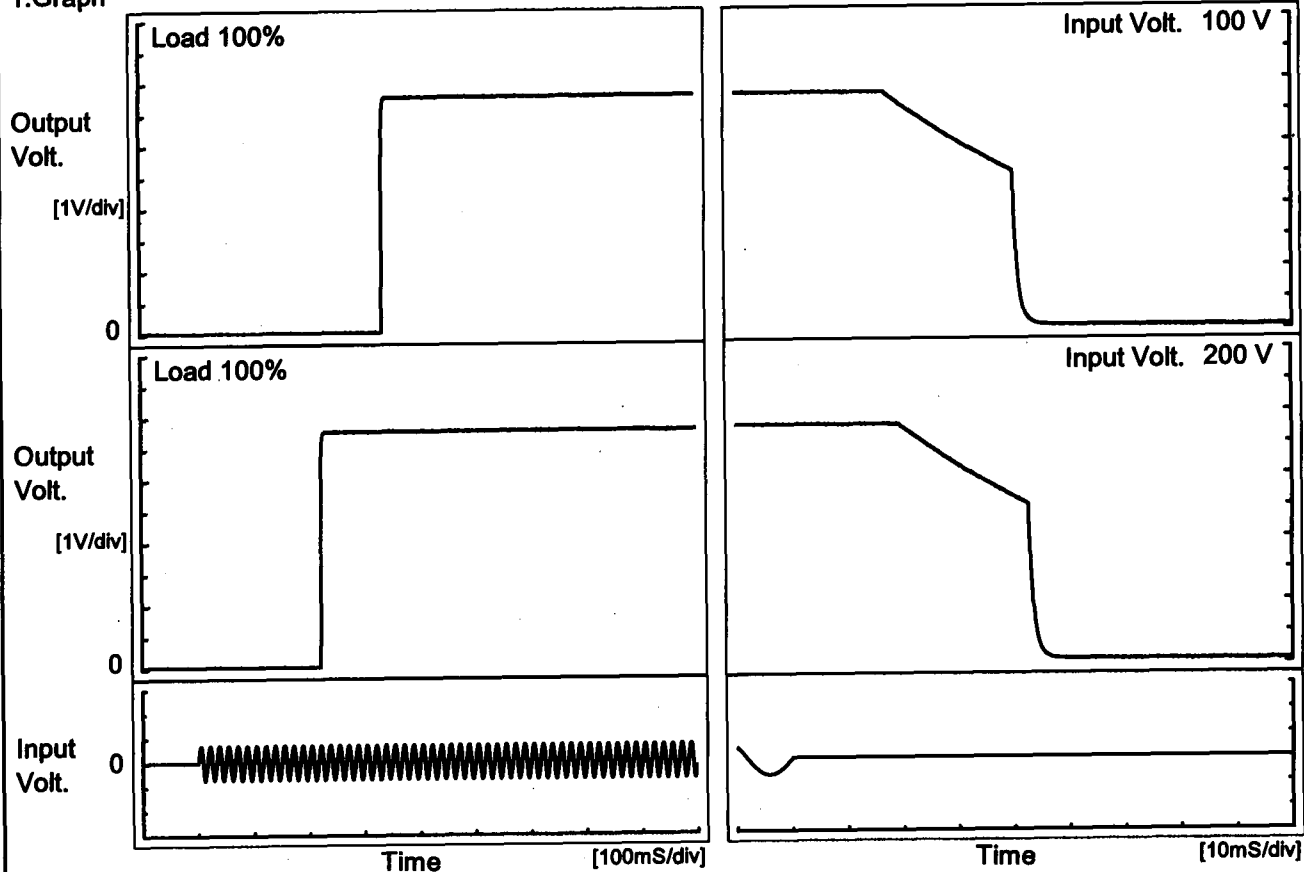
Rise and Fall Time

Object

+7.5V80A

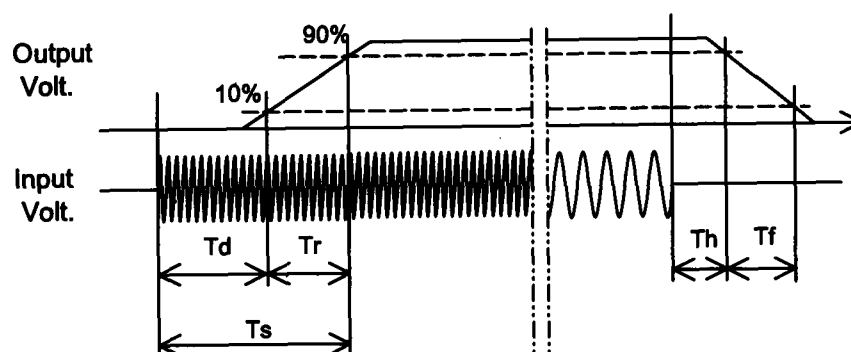
Temperature
Testing Circuitry25°C
Figure A

1. Graph



2. Values

		[mS]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		335.5	2.5	338.0	23.1	18.6
200 V		222.5	2.5	225.0	25.8	18.6



COSEL

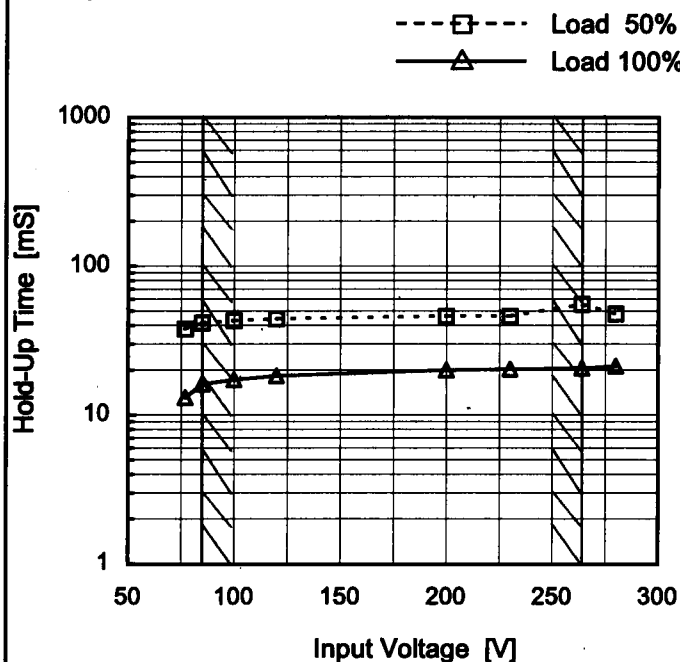
Model PBA600F-7R5

Item Hold-Up Time

Object +7.5V80A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

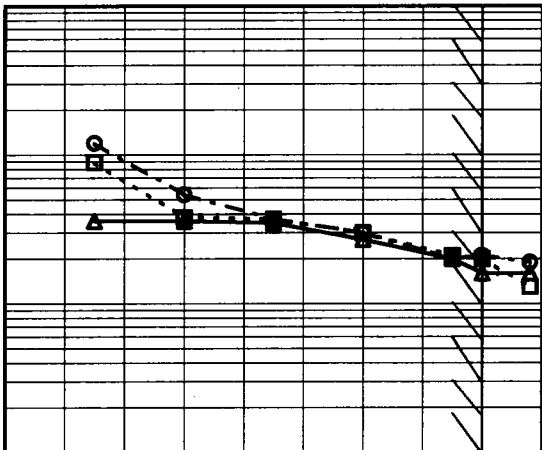


This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
77	38	13
85	42	16
100	43	17
120	44	18
200	46	20
230	46	20
264	56	21
280	48	21
---	-	-

COSEL

Model		PBA600F-7R5		Temperature		25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry		Figure A																																																				
Object		+7.5V80A																																																								
1.Graph				2.Values																																																						
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>200V</div><div>230V</div></div></div></div>																																																										
<div><div><div><div>Instantaneous Compensation Time [mS]</div><div></div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>20</div><div>40</div><div>60</div><div>80</div></div><div><div>Load Current [A]</div></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. 200[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>36</td><td>89</td><td>120</td></tr><tr><td>30</td><td>36</td><td>38</td><td>54</td></tr><tr><td>45</td><td>35</td><td>37</td><td>37</td></tr><tr><td>60</td><td>27</td><td>30</td><td>30</td></tr><tr><td>75</td><td>20</td><td>21</td><td>20</td></tr><tr><td>80</td><td>16</td><td>20</td><td>21</td></tr><tr><td>88</td><td>16</td><td>13</td><td>19</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]	Time [mS]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	-	-	-	15	36	89	120	30	36	38	54	45	35	37	37	60	27	30	30	75	20	21	20	80	16	20	21	88	16	13	19	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [mS]																																																									
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																							
0	-	-	-																																																							
15	36	89	120																																																							
30	36	38	54																																																							
45	35	37	37																																																							
60	27	30	30																																																							
75	20	21	20																																																							
80	16	20	21																																																							
88	16	13	19																																																							
--	-	-	-																																																							
--	-	-	-																																																							
--	-	-	-																																																							
Note: Slanted line shows the range of the rated load current.																																																										

COSEL

Model

PBA600F-7R5

Item

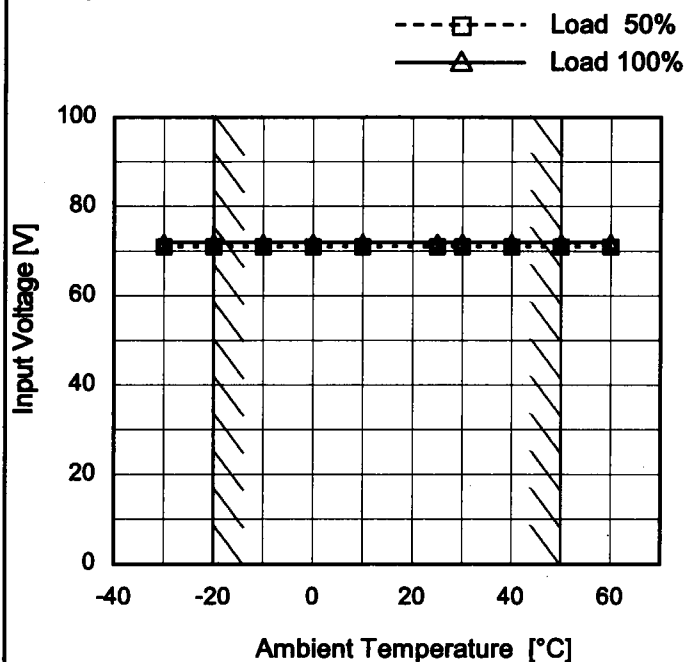
Minimum Input Voltage
for Regulated Output Voltage

Object

+7.5V80A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	71	72
-20	71	72
-10	71	72
0	71	72
10	71	72
25	71	72
30	71	72
40	71	72
50	71	72
60	71	72
--	-	-

COSEL

Model	PBA600F-7R5	Temperature 25°C Testing Circuitry Figure A																																													
Item	Overcurrent Protection																																														
Object	+7.5V80A																																														
1.Graph		2.Values																																													
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 200V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 3.5V to 0V.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th></tr><tr><td>7.50</td><td>95.46</td><td>96.15</td></tr><tr><td>7.13</td><td>96.36</td><td>96.67</td></tr><tr><td>6.75</td><td>96.70</td><td>96.96</td></tr><tr><td>6.00</td><td>98.41</td><td>99.02</td></tr><tr><td>5.25</td><td>100.29</td><td>100.00</td></tr><tr><td>4.50</td><td>100.82</td><td>101.16</td></tr><tr><td>3.75</td><td>101.89</td><td>102.10</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 200[V]	7.50	95.46	96.15	7.13	96.36	96.67	6.75	96.70	96.96	6.00	98.41	99.02	5.25	100.29	100.00	4.50	100.82	101.16	3.75	101.89	102.10	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																														
	Input Volt. 100[V]	Input Volt. 200[V]																																													
7.50	95.46	96.15																																													
7.13	96.36	96.67																																													
6.75	96.70	96.96																																													
6.00	98.41	99.02																																													
5.25	100.29	100.00																																													
4.50	100.82	101.16																																													
3.75	101.89	102.10																																													
--	-	-																																													
--	-	-																																													
--	-	-																																													
--	-	-																																													
--	-	-																																													
--	-	-																																													

COSEL

Model		PBA600F-7R5	
Item		Overvoltage Protection	
Object		+7.5V80A	

1.Graph

—△—

Input Volt. 100V

---□---

Input Volt. 200V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

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

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-30	9.65	9.65
-20	9.65	9.65
-10	9.65	9.65
0	9.65	9.65
10	9.65	9.65
25	9.65	9.65
30	9.65	9.65
40	9.65	9.65
50	9.65	9.65
60	9.65	9.65
—	-	-

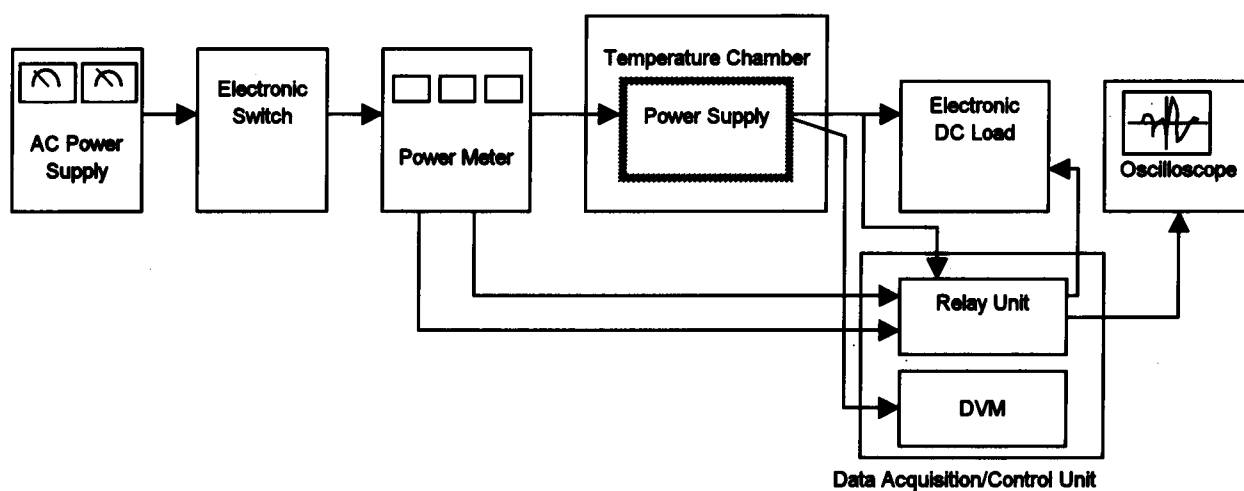


Figure A

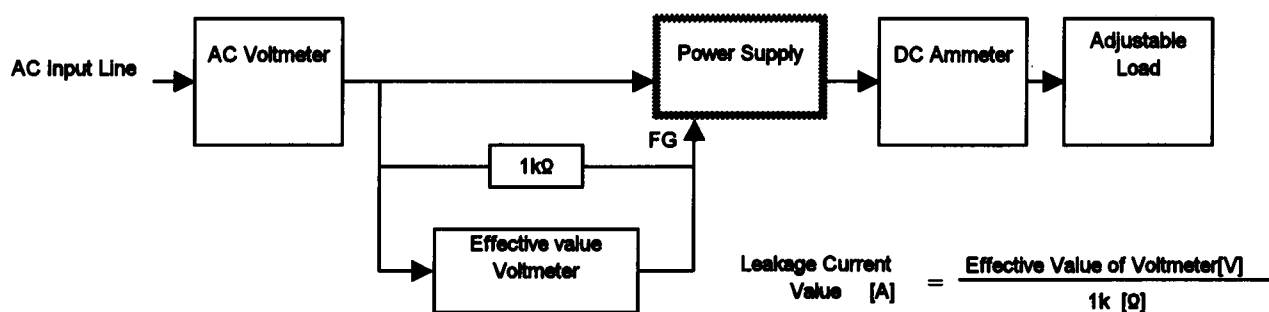


Figure B (DEN-AN)

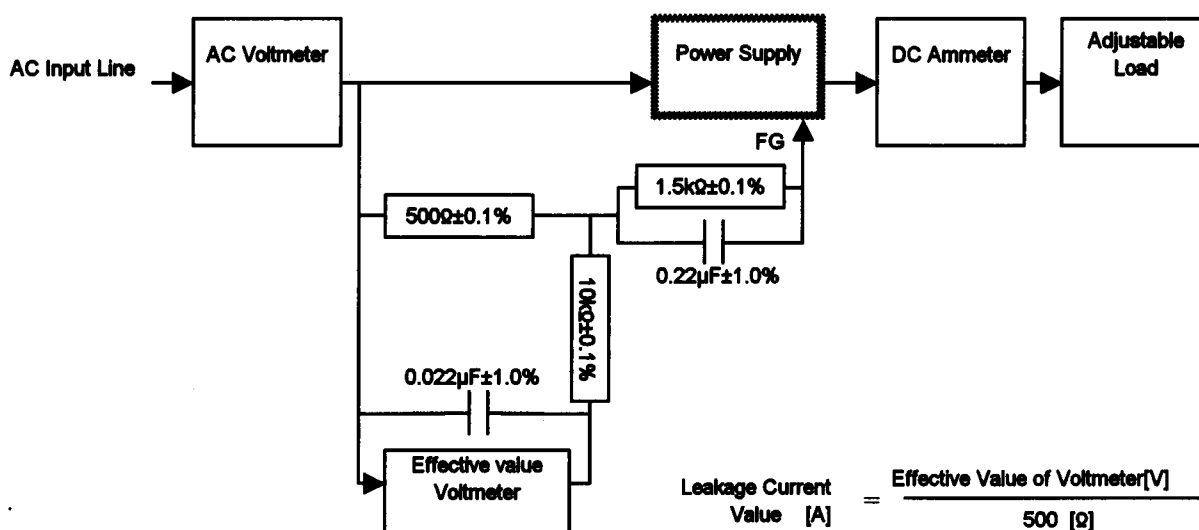


Figure B (IEC60950)