



# TEST DATA OF PBA75F-9

Regulated DC Power Supply  
Apr.8. 2004

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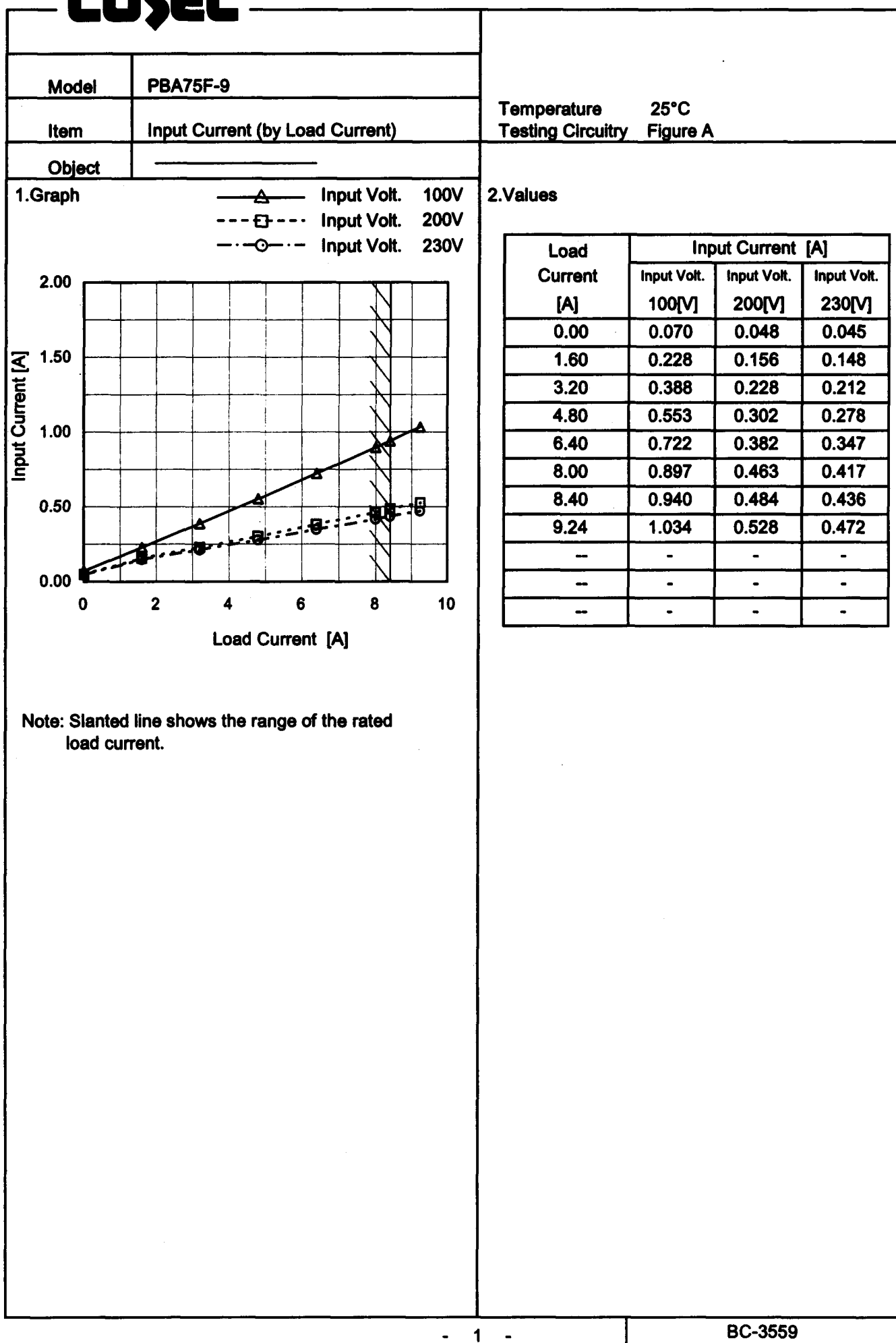
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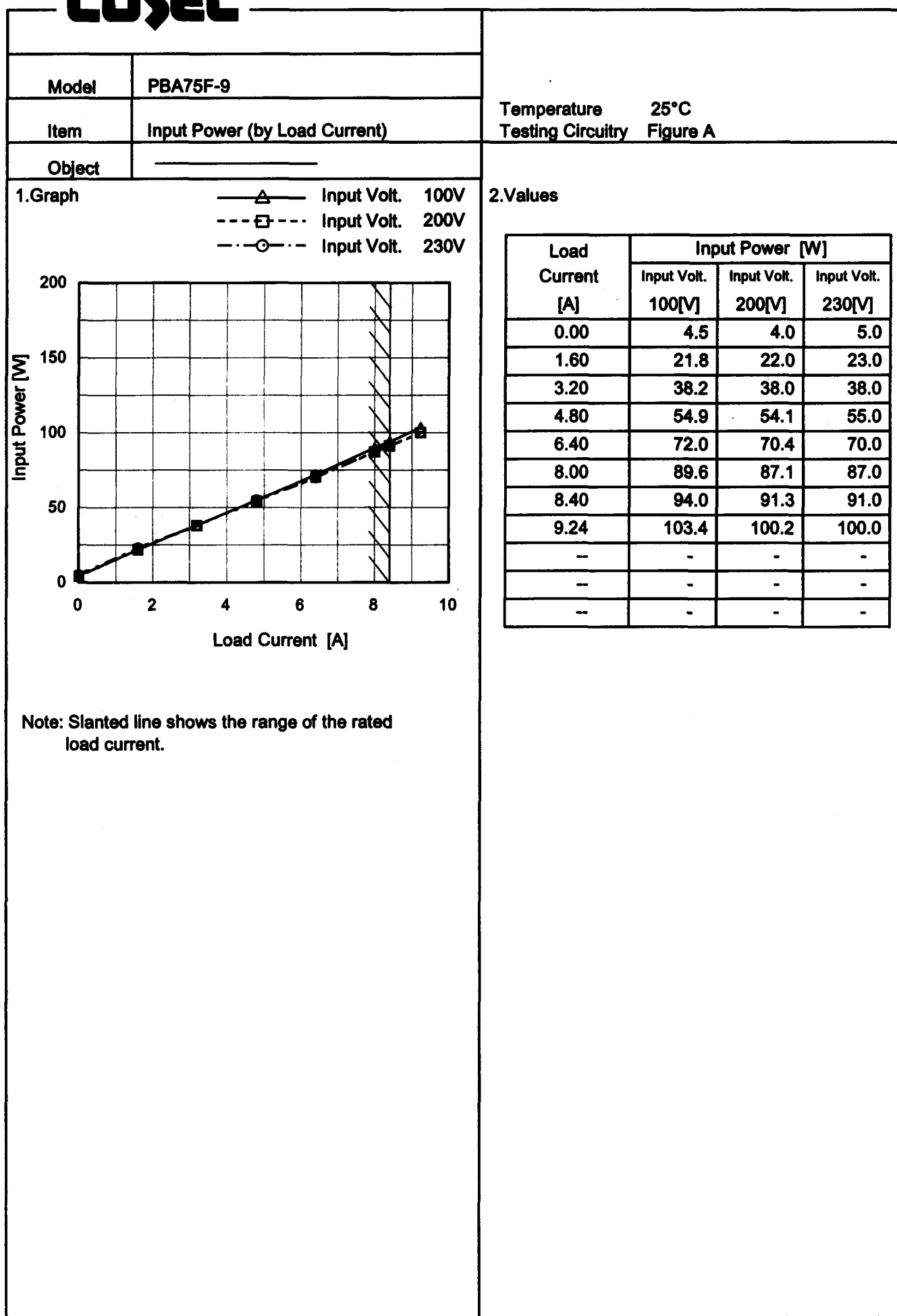
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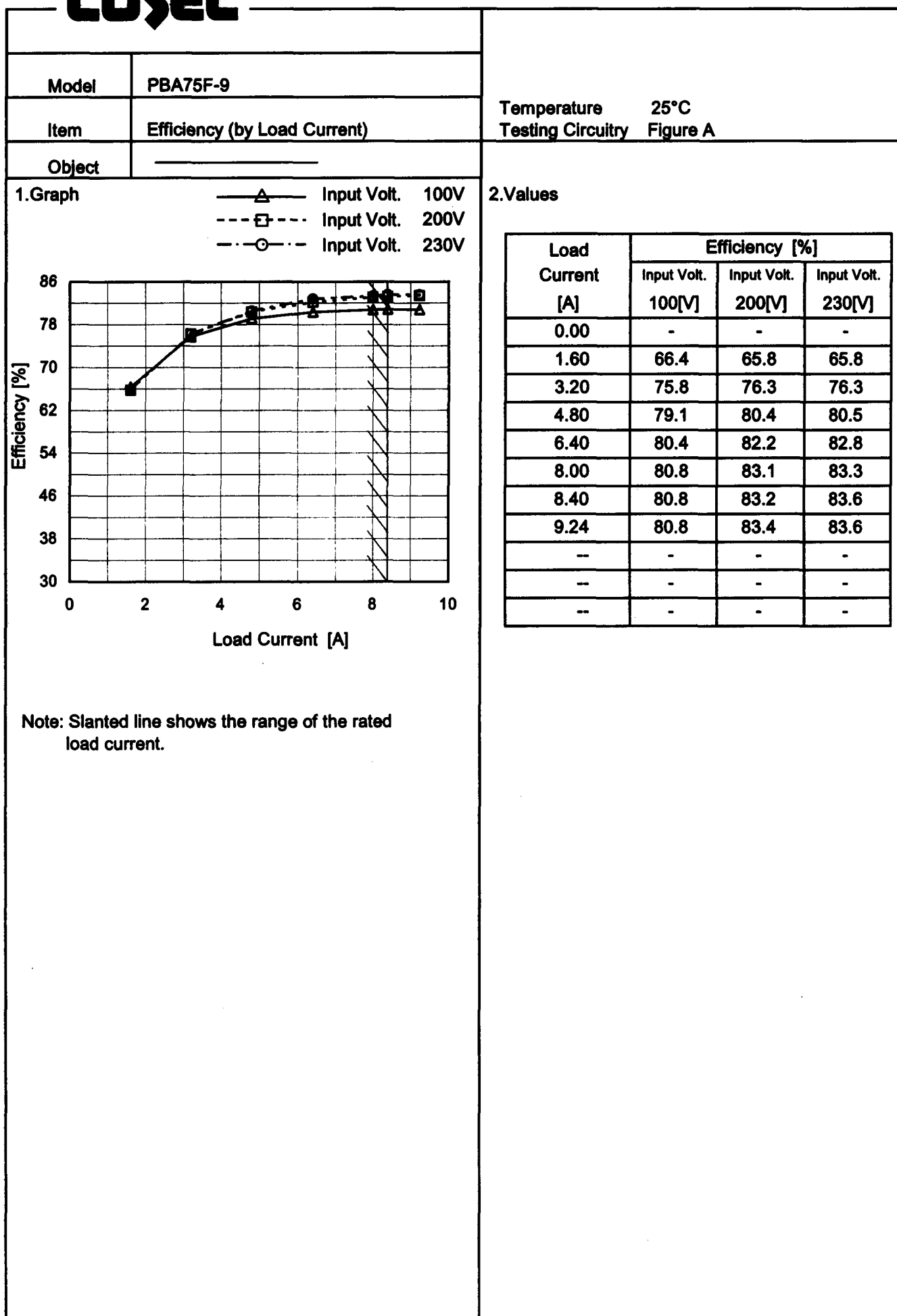
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Model		PBA75F-9		Temperature25°C Testing CircuitryFigure A																																	
Item		Efficiency (by Input Voltage)																																			
Object																																					
1.Graph				2.Values																																	
<div><div><div>---□---Load 50%</div><div>---△---Load 100%</div></div><p>Efficiency [%]</p><p>Input Voltage [V]</p></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">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>76.9</td><td>78.5</td></tr><tr><td>85</td><td>77.6</td><td>79.7</td></tr><tr><td>100</td><td>78.3</td><td>80.9</td></tr><tr><td>120</td><td>79.3</td><td>81.8</td></tr><tr><td>200</td><td>79.3</td><td>83.3</td></tr><tr><td>230</td><td>79.3</td><td>83.6</td></tr><tr><td>264</td><td>79.3</td><td>83.6</td></tr><tr><td>280</td><td>79.3</td><td>83.6</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	76.9	78.5	85	77.6	79.7	100	78.3	80.9	120	79.3	81.8	200	79.3	83.3	230	79.3	83.6	264	79.3	83.6	280	79.3	83.6	--	-	-
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Model		PBA75F-9	
Item		Power Factor (by Input Voltage)	
Object			

1.Graph

Load 50%

Load 100%

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]

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

2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.995	0.997
85	0.991	0.996
100	0.985	0.994
120	0.960	0.989
200	0.873	0.940
230	0.828	0.910
264	0.750	0.875
280	0.676	0.805
—	-	-

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Model

PBA75F-9

Item

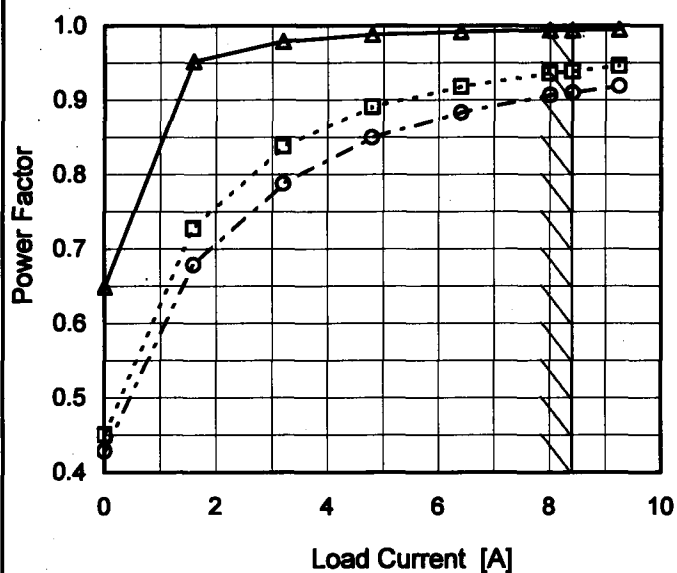
Power Factor (by Load Current)

Object

 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.

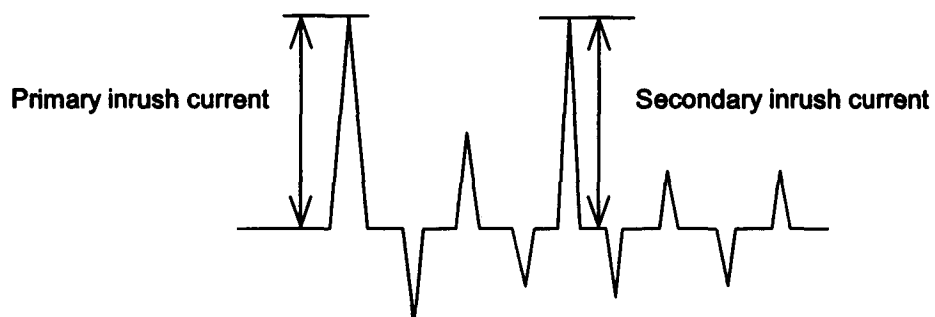
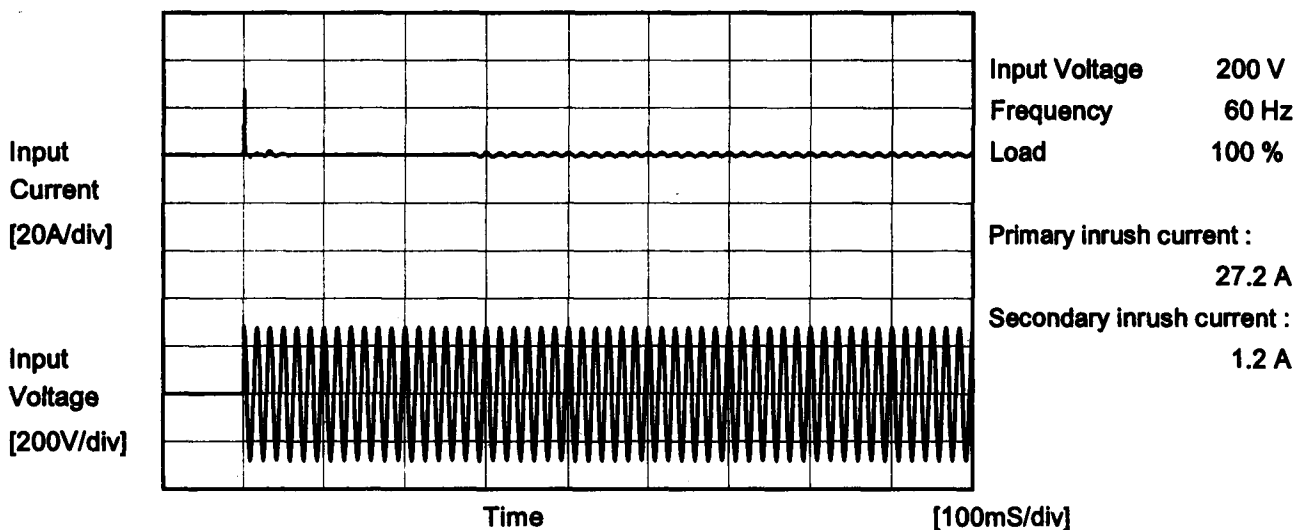
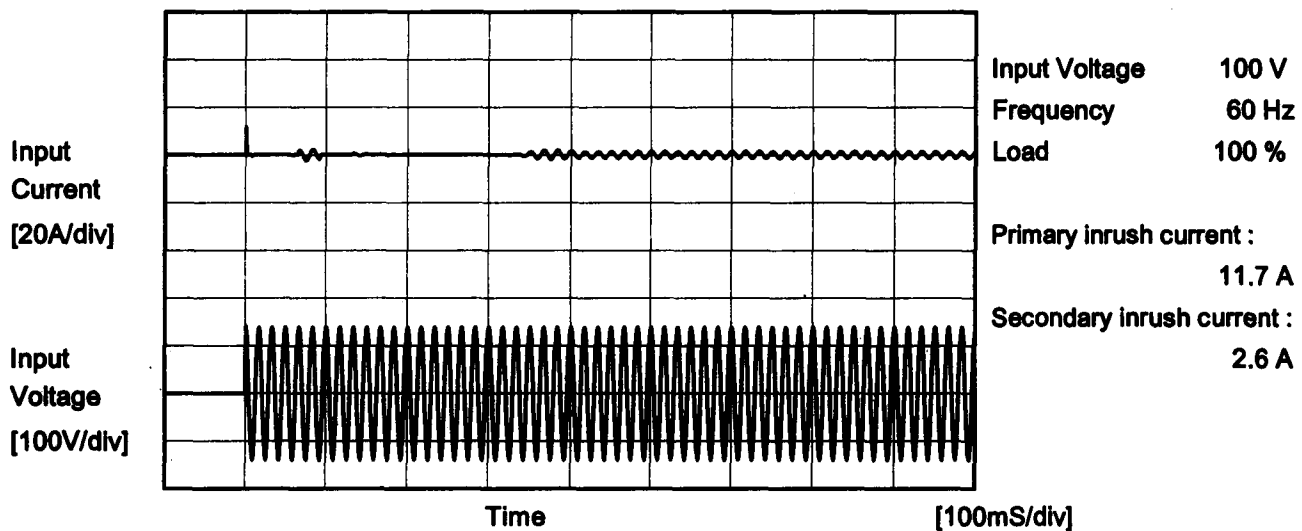
2. Values

Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	0.649	0.451	0.429
1.60	0.952	0.728	0.679
3.20	0.979	0.838	0.788
4.80	0.988	0.891	0.850
6.40	0.992	0.918	0.883
8.00	0.994	0.936	0.907
8.40	0.994	0.939	0.910
9.24	0.995	0.946	0.919
—	—	—	—
—	—	—	—
—	—	—	—



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Model	PBA75F-9	Temperature Testing Circuitry	25°C Figure A
Item	Inrush Current		
Object			



		Temperature 25°C Testing Circuitry Figure B
Model	PBA75F-9	
Item	Leakage Current	
Object	_____	

## 1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	230 [V]	
DEN-AN	Both phases	0.16	0.26	0.30	Operation
	One of phase	0.24	0.45	0.53	stand by
IEC60950	Both phases	0.16	0.28	0.37	Operation
	One of phase	0.24	0.47	0.57	stand by

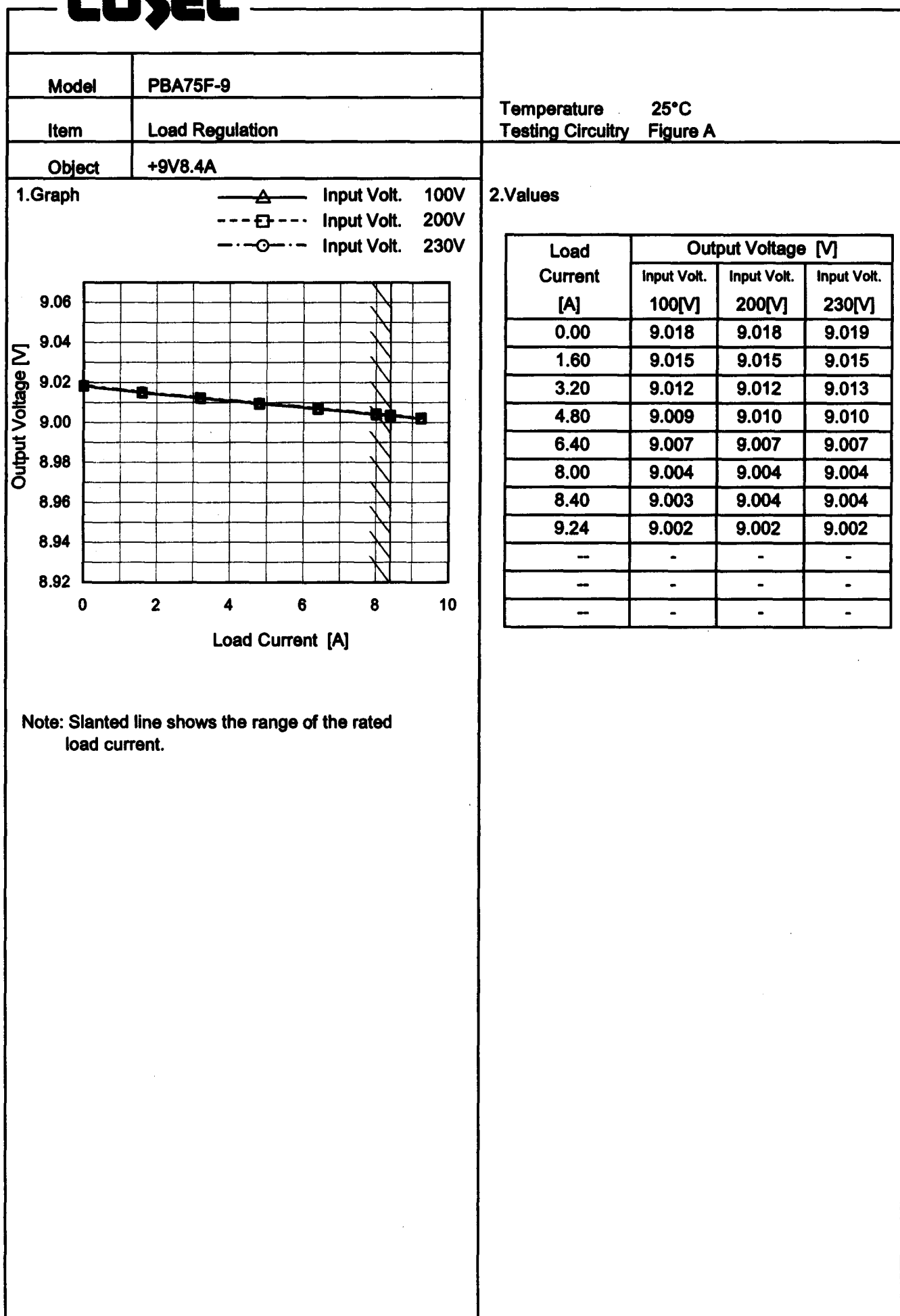
The value for "One phase" is the reference value only.

## 2.Condition

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

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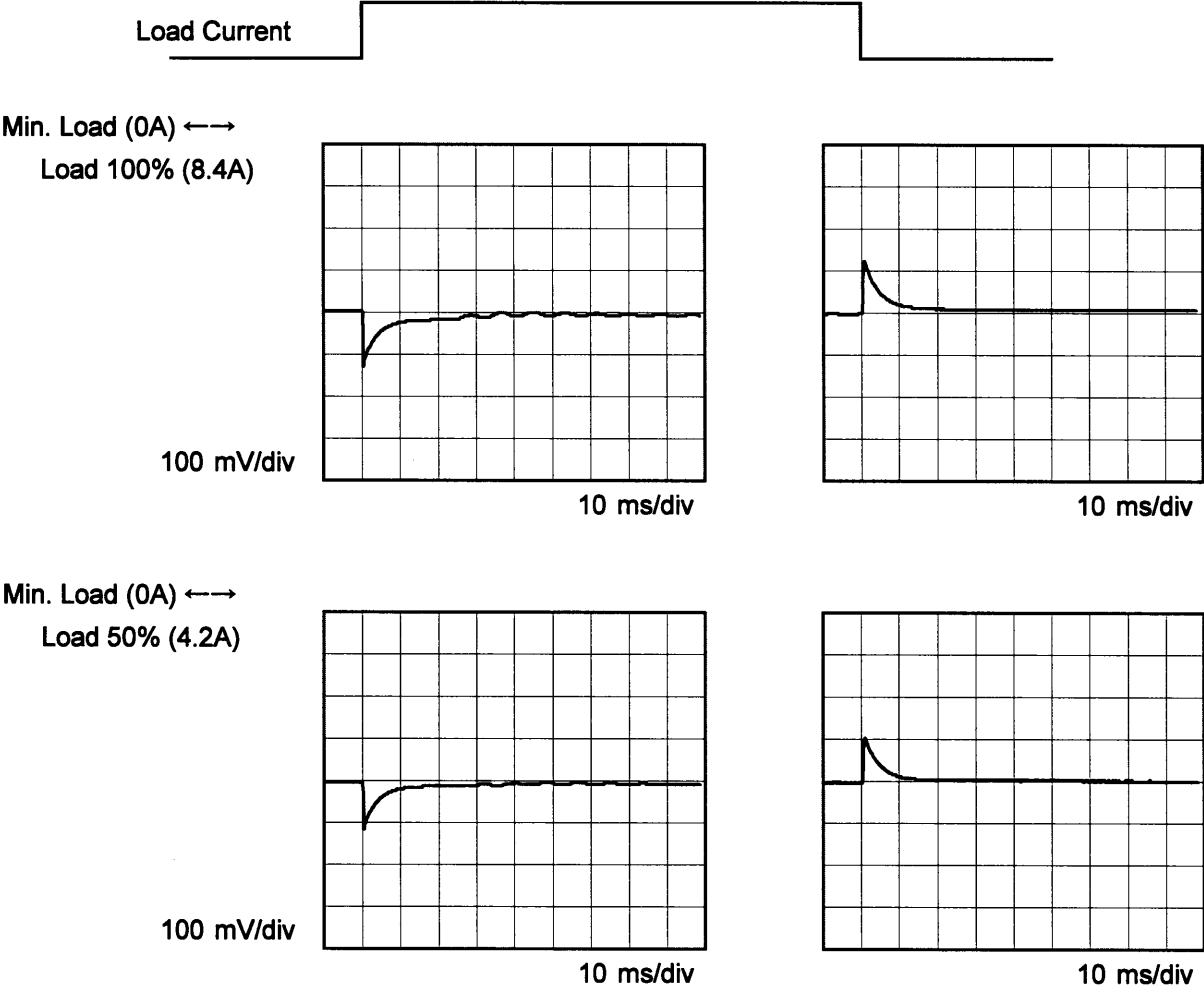
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Item	Line Regulation	Temperature	25°C																																																														
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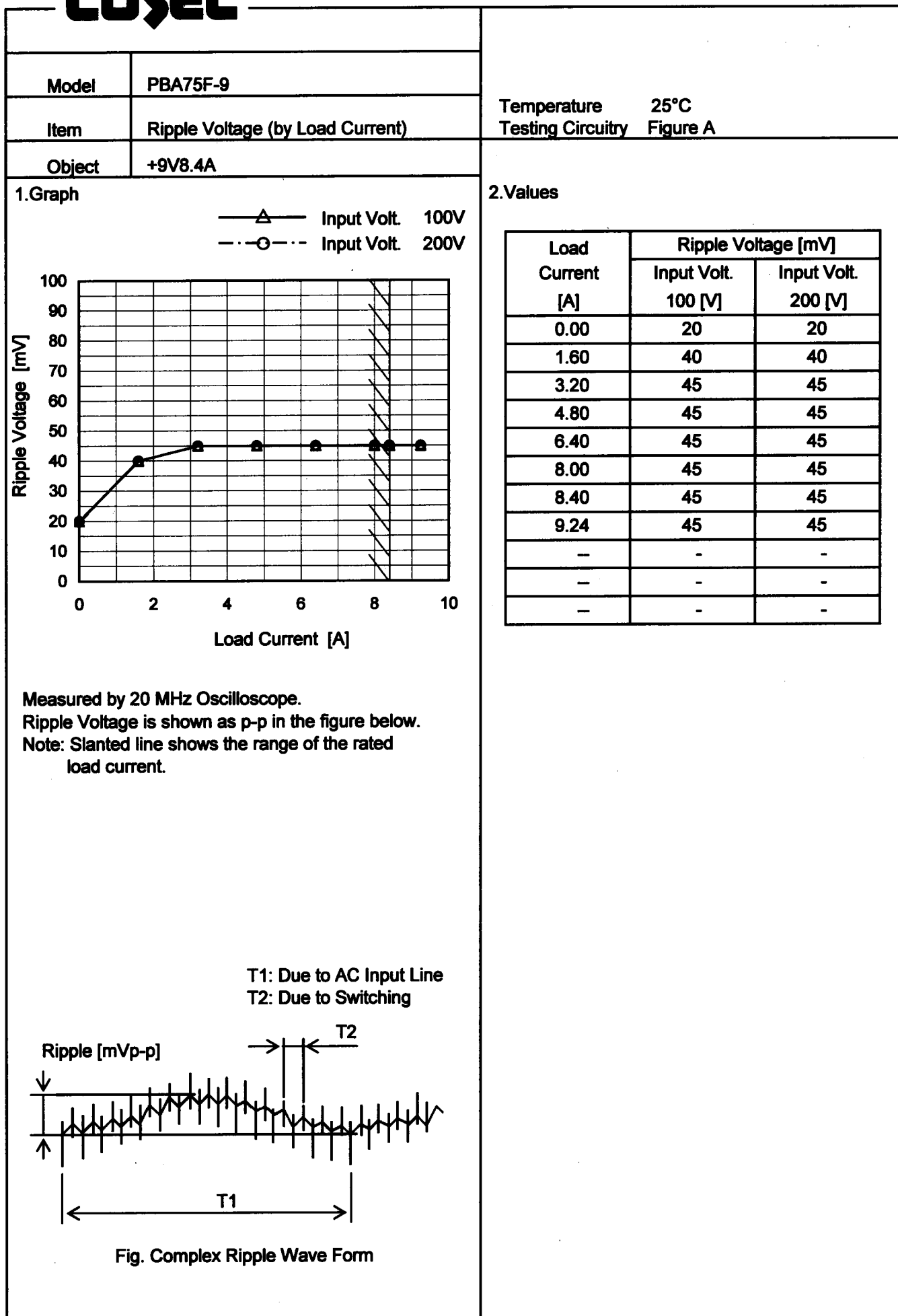
Model		PBA75F-9	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+9V8.4A	

Input Volt. 100 V  
Cycle 1000 ms

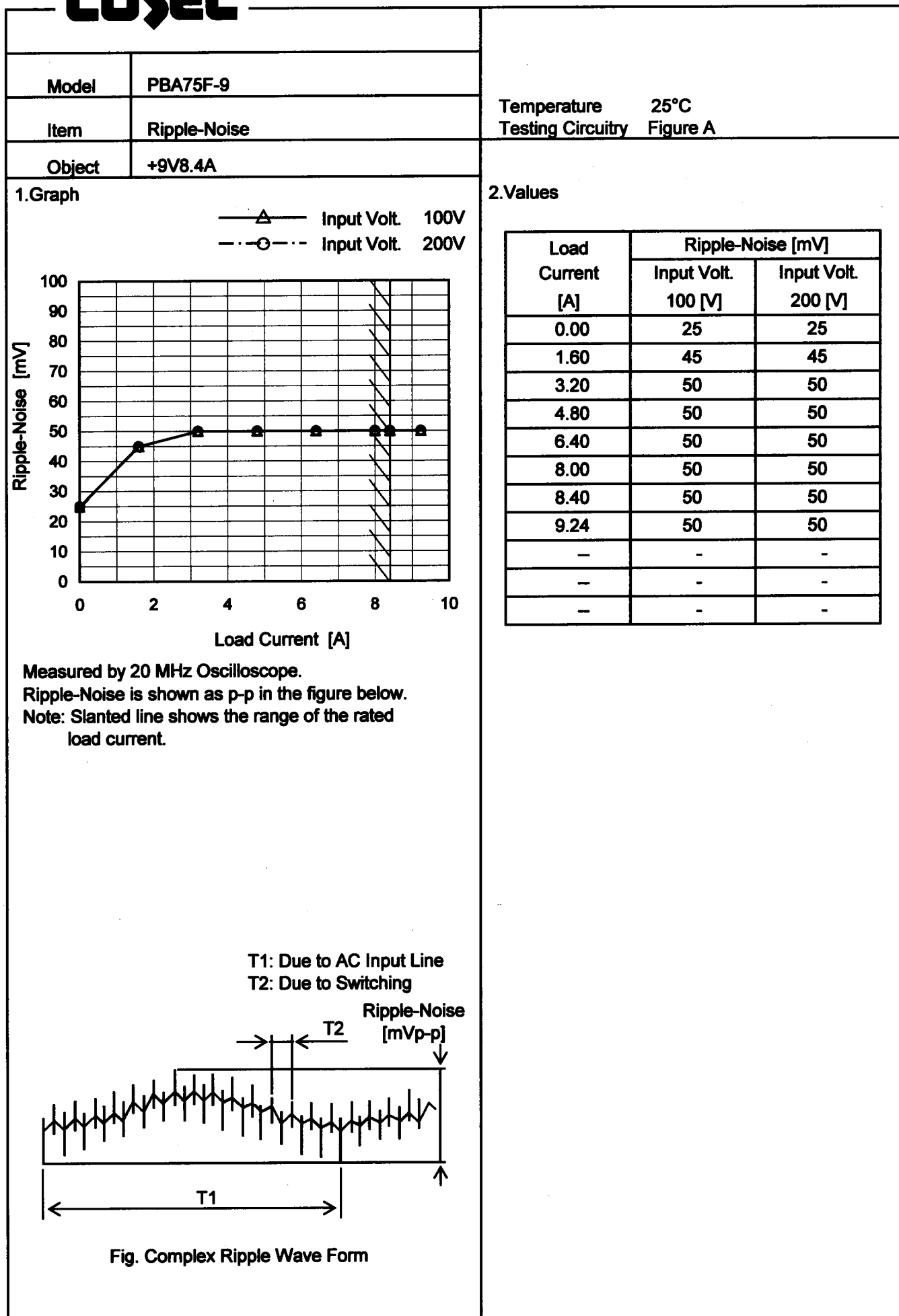


\* The characteristic of AC200V is equal.

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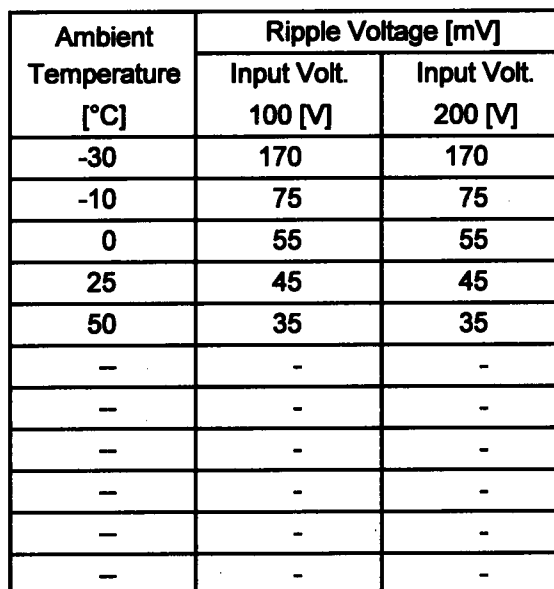


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### Testing Circuitry Figure A

## 2.Values



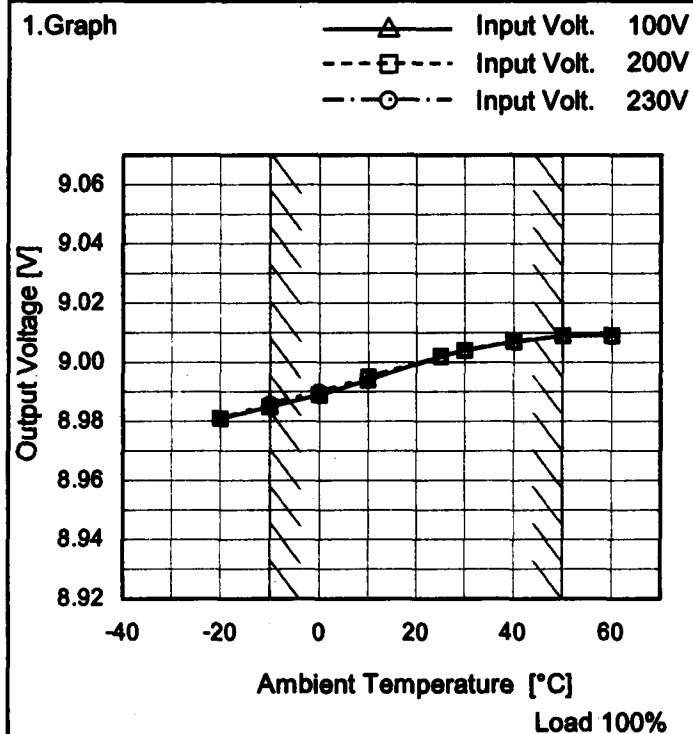
**Note: Slanted line shows the range of the rated ambient temperature.**



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Model	PBA75F-9
Item	Ambient Temperature Drift
Object	+9V8.4A

## 1. Graph



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	8.981	8.981	8.981
-10	8.985	8.985	8.986
0	8.989	8.989	8.990
10	8.994	8.995	8.995
25	9.002	9.002	9.002
30	9.004	9.004	9.004
40	9.007	9.007	9.007
50	9.009	9.009	9.009
60	9.009	9.009	9.009
--	-	-	-
--	-	-	-

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		Testing Circuitry Figure A
Model	PBA75F-9	
Item	Output Voltage Accuracy	
Object	+9V8.4A	

### 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 - 8.4A

\* 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	50	200	0	9.025	±20	±0.2
Minimum Voltage	-10	85	8.4	8.985		

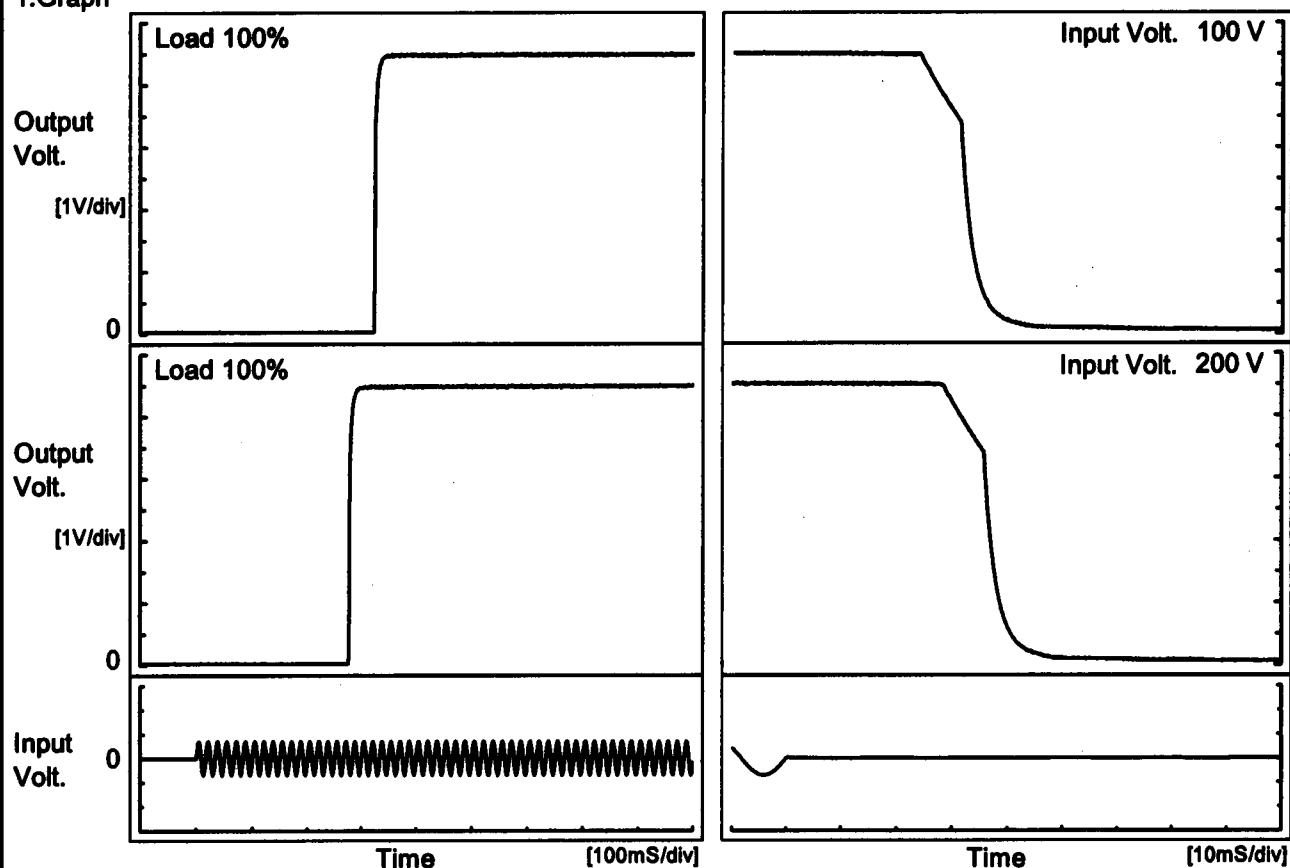
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Model	PBA75F-9		
Item	Time Lapse Drift	Temperature	25°C
Object	+9V8.4A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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></di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**COSEL**

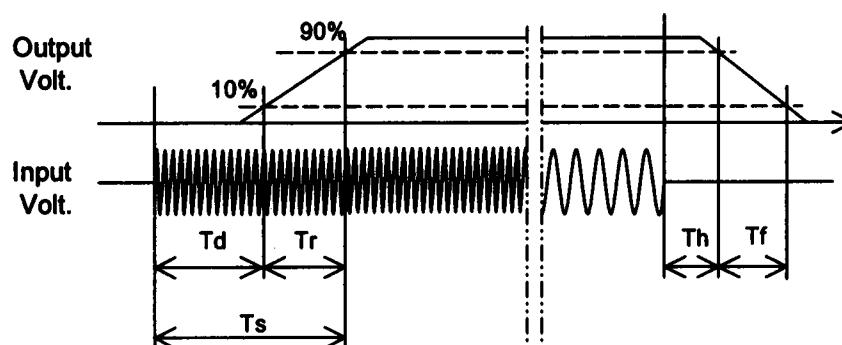
Model	PBA75F-9	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+9V8.4A		

## 1. Graph



## 2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		323.5	6.5	330.0	26.6	9.8
200 V		277.0	6.5	283.5	30.9	10.0



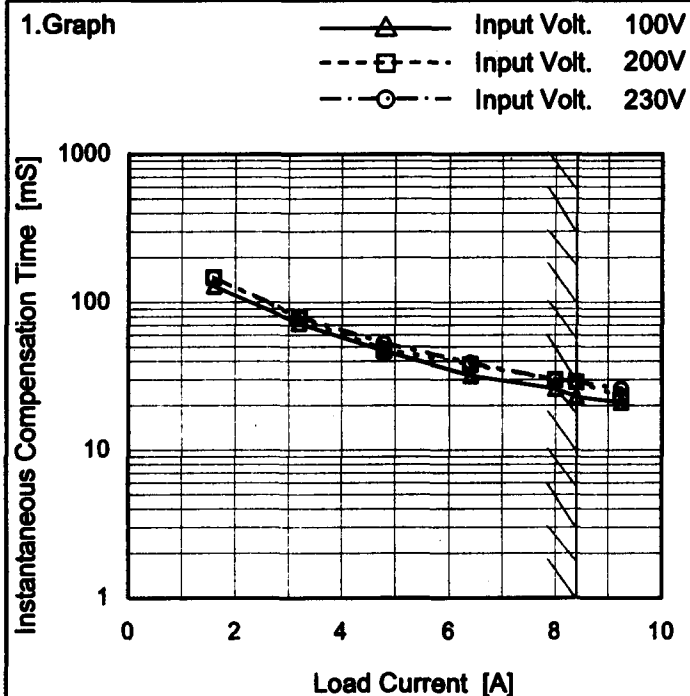
# COSEL

Model	PBA75F-9																																																													
Item	Hold-Up Time	Temperature	25°C																																																											
Object	+9V8.4A	Testing Circuitry	Figure A																																																											
1.Graph		2.Values																																																												
<div><div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div><p>The graph shows Hold-Up Time [mS] on a logarithmic y-axis (1 to 1000) versus Input Voltage [V] on a linear x-axis (50 to 300). Two data series are plotted: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a relatively constant hold-up time across the input voltage range. A slanted line indicates the range of the rated input voltage, which is approximately from 80V to 280V.</p><table><caption>Data points estimated from the graph</caption><tr><th>Input Voltage [V]</th><th>Hold-Up Time [mS] (Load 50%)</th><th>Hold-Up Time [mS] (Load 100%)</th></tr><tr><td>75</td><td>50</td><td>20</td></tr><tr><td>85</td><td>52</td><td>22</td></tr><tr><td>100</td><td>54</td><td>24</td></tr><tr><td>120</td><td>56</td><td>26</td></tr><tr><td>200</td><td>60</td><td>29</td></tr><tr><td>230</td><td>61</td><td>29</td></tr><tr><td>264</td><td>61</td><td>30</td></tr><tr><td>280</td><td>61</td><td>30</td></tr></table></div>		Input Voltage [V]	Hold-Up Time [mS] (Load 50%)	Hold-Up Time [mS] (Load 100%)	75	50	20	85	52	22	100	54	24	120	56	26	200	60	29	230	61	29	264	61	30	280	61	30	<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>50</td><td>20</td></tr><tr><td>85</td><td>52</td><td>22</td></tr><tr><td>100</td><td>54</td><td>24</td></tr><tr><td>120</td><td>56</td><td>26</td></tr><tr><td>200</td><td>60</td><td>29</td></tr><tr><td>230</td><td>61</td><td>29</td></tr><tr><td>264</td><td>61</td><td>30</td></tr><tr><td>280</td><td>61</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	50	20	85	52	22	100	54	24	120	56	26	200	60	29	230	61	29	264	61	30	280	61	30	--	-	-
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<p>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.</p>																																																														

# COSEL

Model	PBA75F-9
Item	Instantaneous Interruption Compensation
Object	+9V8.4A

## 1. Graph



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

Temperature 25°C  
Testing Circuitry Figure A

## 2. Values

Load Current [A]	Time [mS]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	-	-	-
1.60	129	147	147
3.20	72	78	80
4.80	47	48	53
6.40	32	38	39
8.00	26	30	30
8.40	23	29	29
9.24	21	23	26
--	-	-	-
--	-	-	-
--	-	-	-

# COSEL

LOREL

Model	PBA75F-9
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+9V8.4A

Testing Circuitry Figure A

1.Graph

---□--- Load 50%  
—△— Load 100%

Input Voltage [V]

Ambient Temperature [°C]

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

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	44	61
-10	44	60
0	44	60
10	43	60
25	43	60
30	43	60
40	43	60
50	43	60
60	43	60
--	-	-
--	-	-

**COSEL**

Model		PBA75F-9	
Item		Overcurrent Protection	
Object		+9V8.4A	

1.Graph

Input Volt. 100V

Input Volt. 200V

Output Voltage [V]

12

8

4

0



**COSEL**

Model		PBA75F-9
Item		Overvoltage Protection
Object		+9V8.4A

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]
-20	12.34	12.34
-10	12.41	12.41
0	12.48	12.48
10	12.48	12.48
25	12.62	12.62
30	12.62	12.62
40	12.68	12.68
50	12.75	12.75
60	12.82	12.82
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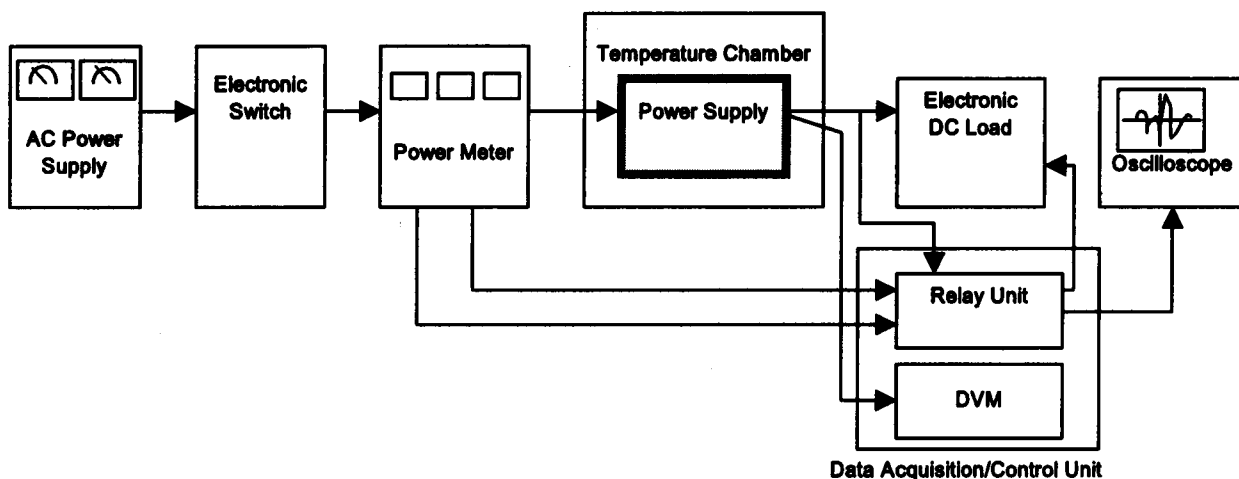


Figure A

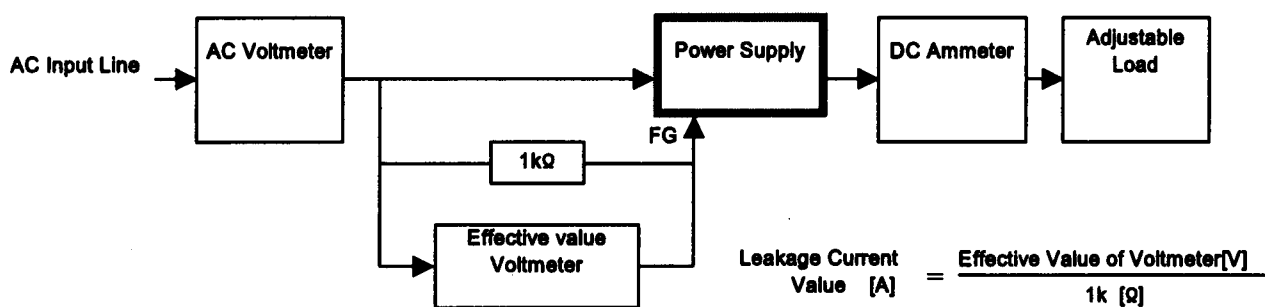


Figure B ( DEN-AN )

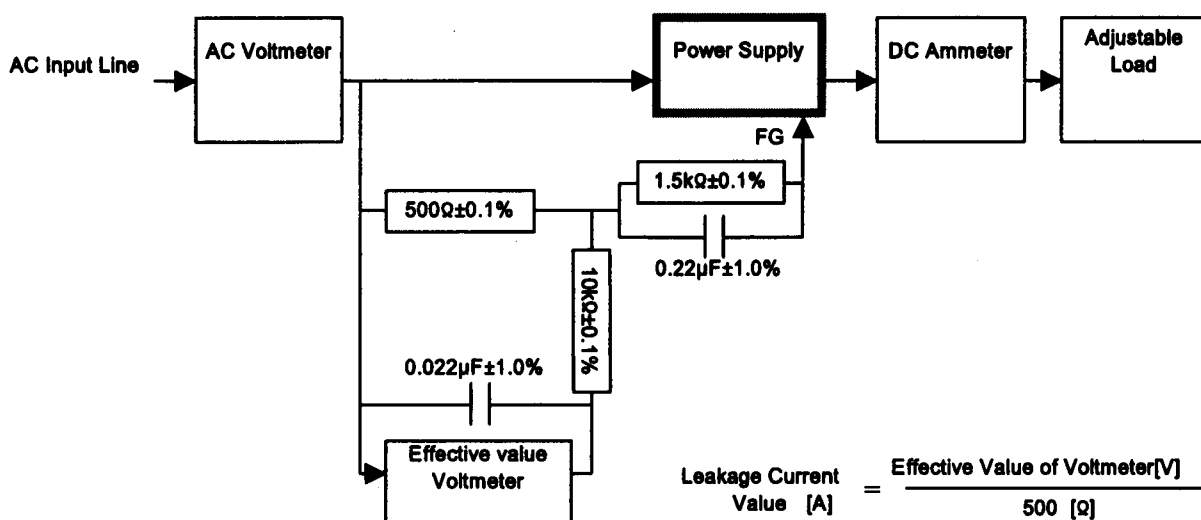


Figure B ( IEC60950 )