



TEST DATA OF PBA75F-5

Regulated DC Power Supply
Apr.8. 2004

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Kuniaki Nagahara Design Manager

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Akito Joboji Design Engineer

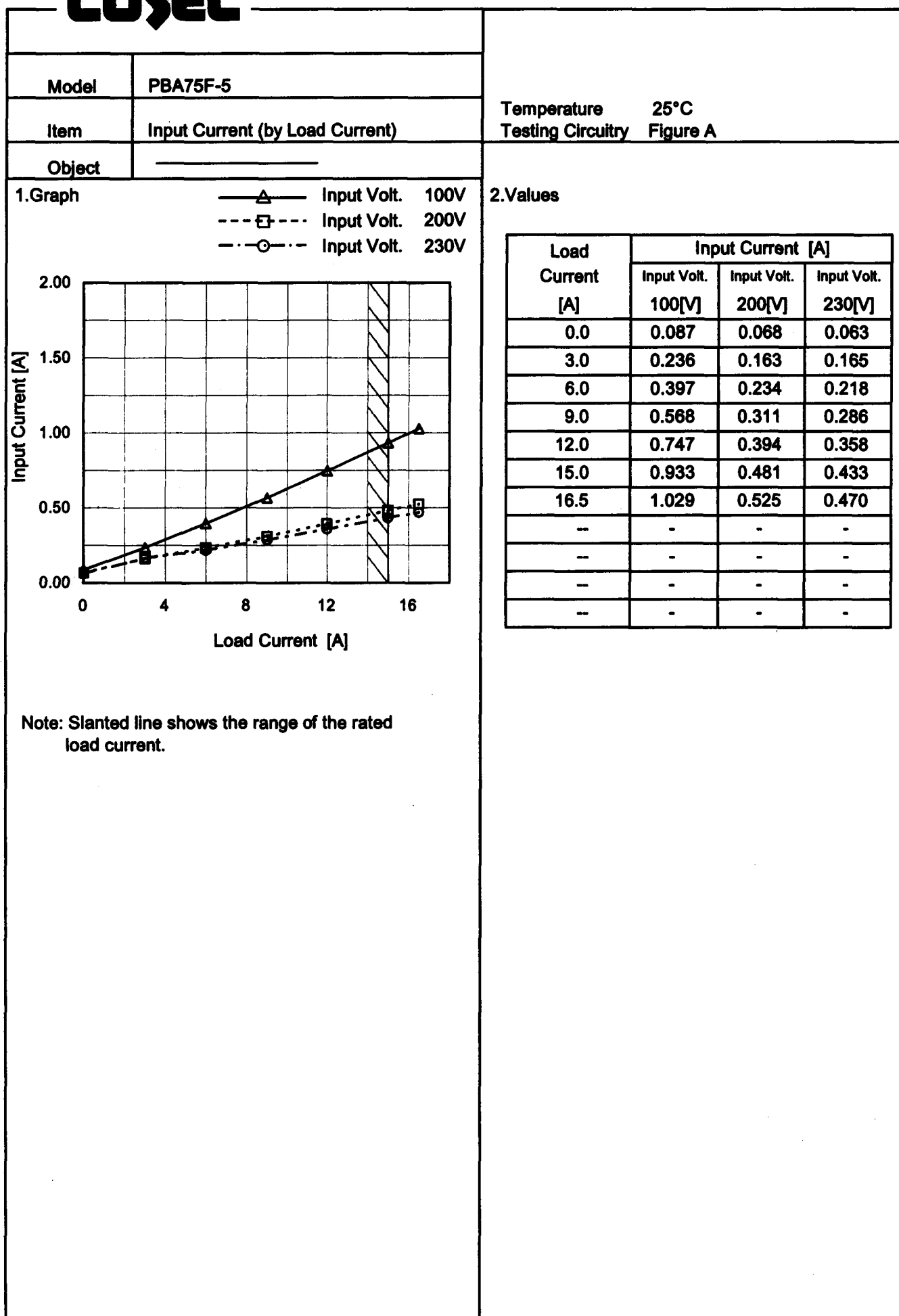
COSEL CO.,LTD.

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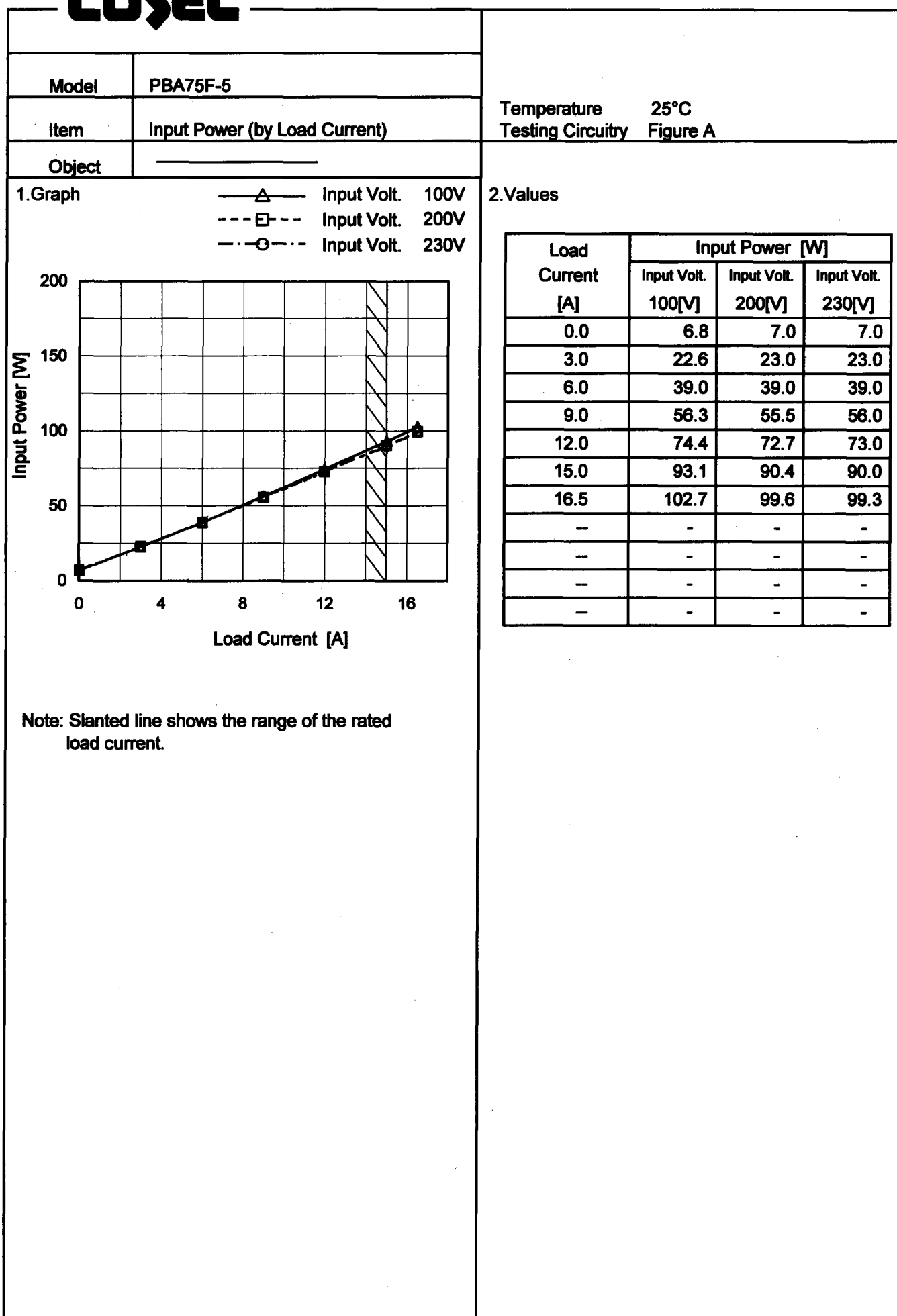
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Model		PBA75F-5	
Item		Efficiency (by Input Voltage)	
Object			

1.Graph

Load 50%

Load 100%

Efficiency [%]

86

78

70

62

54

46

38

30

50

100

150

200

250

300

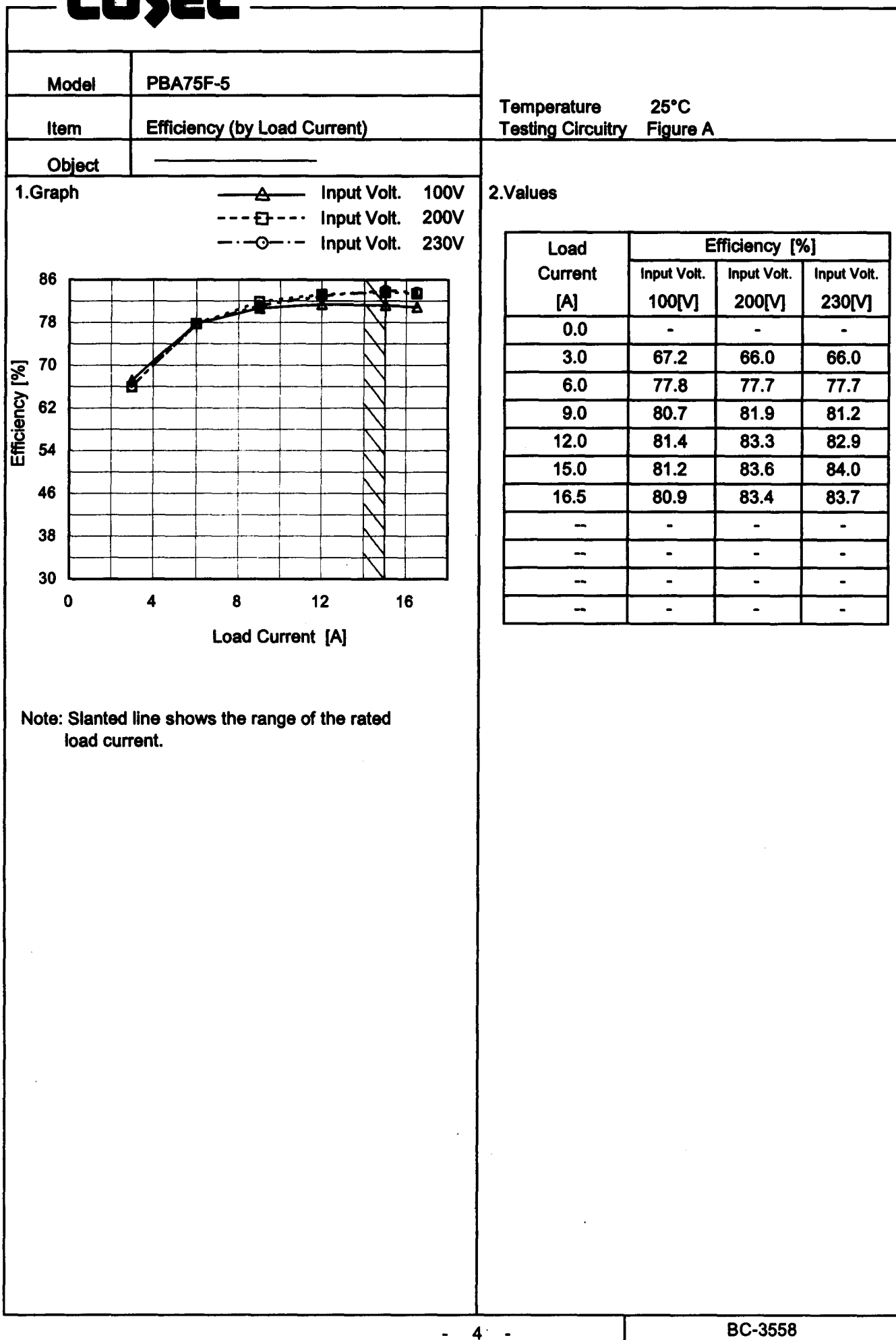
Input Voltage [V]

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

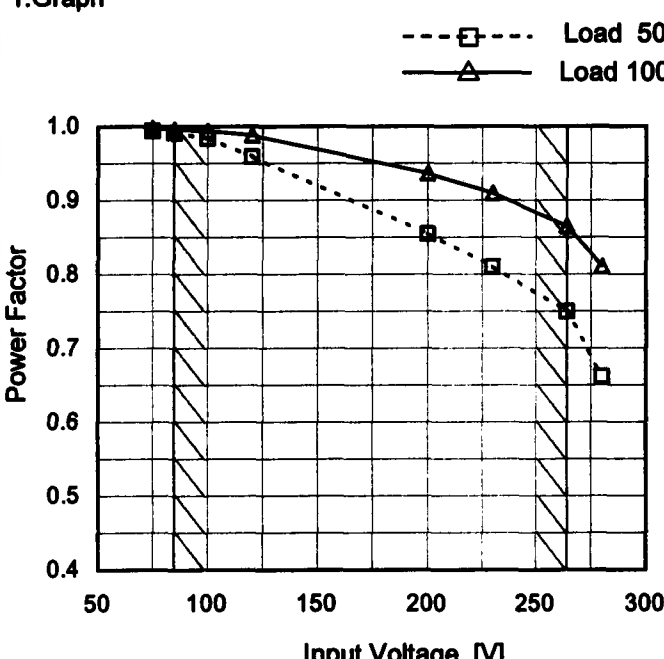
2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	78.5	78.9
85	79.2	80.1
100	79.8	81.2
120	80.6	82.2
200	80.6	83.6
230	80.6	84.0
264	80.6	84.0
280	80.6	84.0
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Model	PBA75F-5																																		
Item	Power Factor (by Input Voltage)	Temperature	25°C																																
		Testing Circuitry	Figure A																																
Object																																			
1.Graph		2.Values																																	
<div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div> <div><div>—</div><div>△</div><div>—</div></div> <div>Load 100%</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">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>0.994</td><td>0.998</td></tr><tr><td>85</td><td>0.991</td><td>0.996</td></tr><tr><td>100</td><td>0.984</td><td>0.994</td></tr><tr><td>120</td><td>0.959</td><td>0.989</td></tr><tr><td>200</td><td>0.855</td><td>0.937</td></tr><tr><td>230</td><td>0.810</td><td>0.910</td></tr><tr><td>264</td><td>0.750</td><td>0.865</td></tr><tr><td>280</td><td>0.662</td><td>0.811</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Power Factor		Load 50%	Load 100%	75	0.994	0.998	85	0.991	0.996	100	0.984	0.994	120	0.959	0.989	200	0.855	0.937	230	0.810	0.910	264	0.750	0.865	280	0.662	0.811	--	-	-
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Model		PBA75F-5		Temperature		25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry		Figure A																																																				
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<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>- - -○- - -</div><div>Input Volt.</div><div>230V</div></div></div> <div><div><div>Power Factor</div><div>1.0</div><div>0.9</div><div>0.8</div><div>0.7</div><div>0.6</div><div>0.5</div><div>0.4</div></div><div><div>0</div><div>4</div><div>8</div><div>12</div><div>16</div></div><div><div>Load Current [A]</div></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>0.0</td><td>0.778</td><td>0.500</td><td>0.467</td></tr><tr><td>3.0</td><td>0.952</td><td>0.697</td><td>0.622</td></tr><tr><td>6.0</td><td>0.979</td><td>0.830</td><td>0.765</td></tr><tr><td>9.0</td><td>0.988</td><td>0.889</td><td>0.848</td></tr><tr><td>12.0</td><td>0.992</td><td>0.919</td><td>0.880</td></tr><tr><td>15.0</td><td>0.994</td><td>0.937</td><td>0.900</td></tr><tr><td>16.5</td><td>0.995</td><td>0.944</td><td>0.907</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></table>				Load Current [A]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.778	0.500	0.467	3.0	0.952	0.697	0.622	6.0	0.979	0.830	0.765	9.0	0.988	0.889	0.848	12.0	0.992	0.919	0.880	15.0	0.994	0.937	0.900	16.5	0.995	0.944	0.907	—	-	-	-	—	-	-	-	—	-	-	-	—	-	-	-
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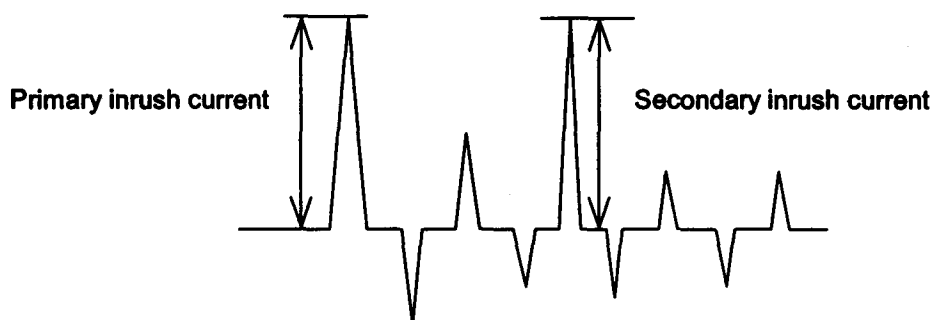
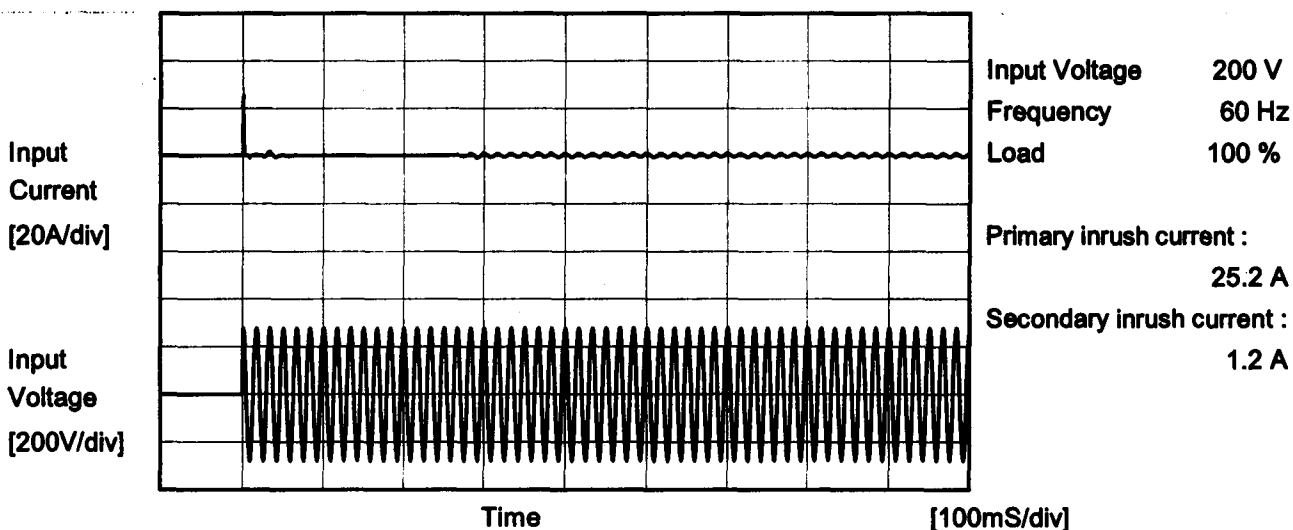
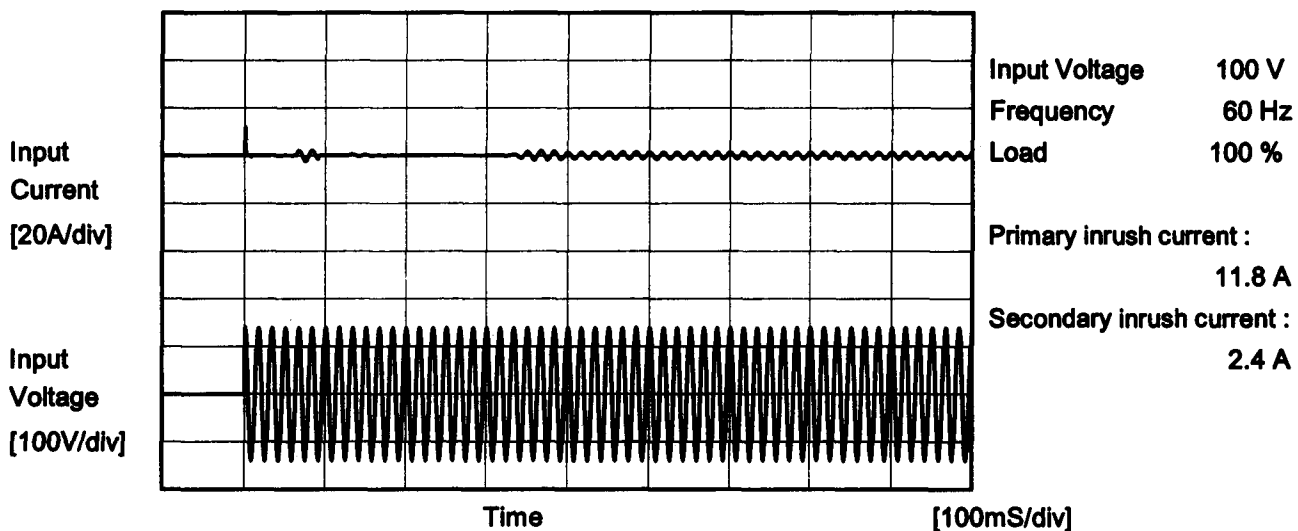
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Model	PBA75F-5	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			





		Temperature 25°C Testing Circuitry Figure B
Model	PBA75F-5	
Item	Leakage Current	
Object	_____	

1.Results

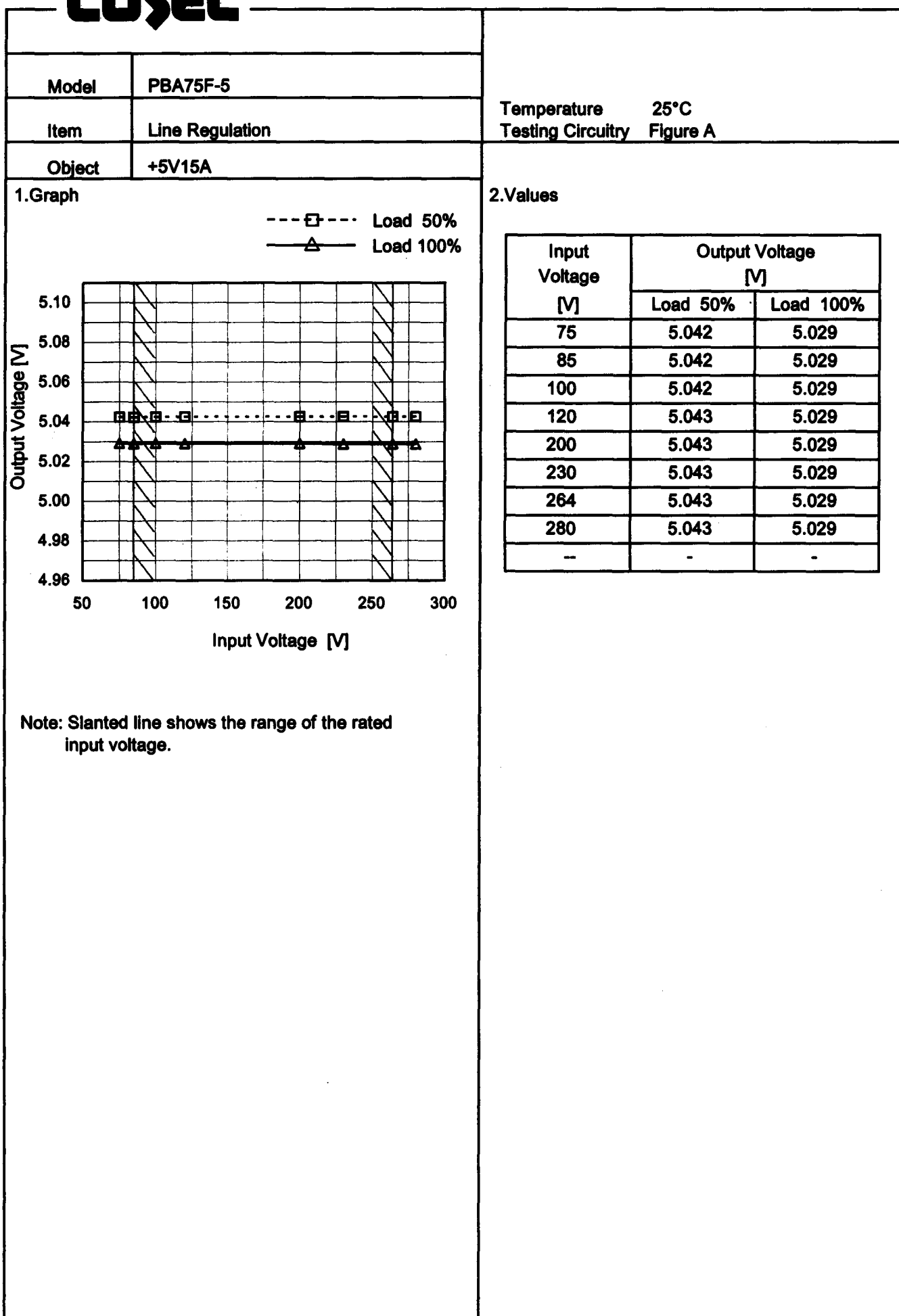
[mA]

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

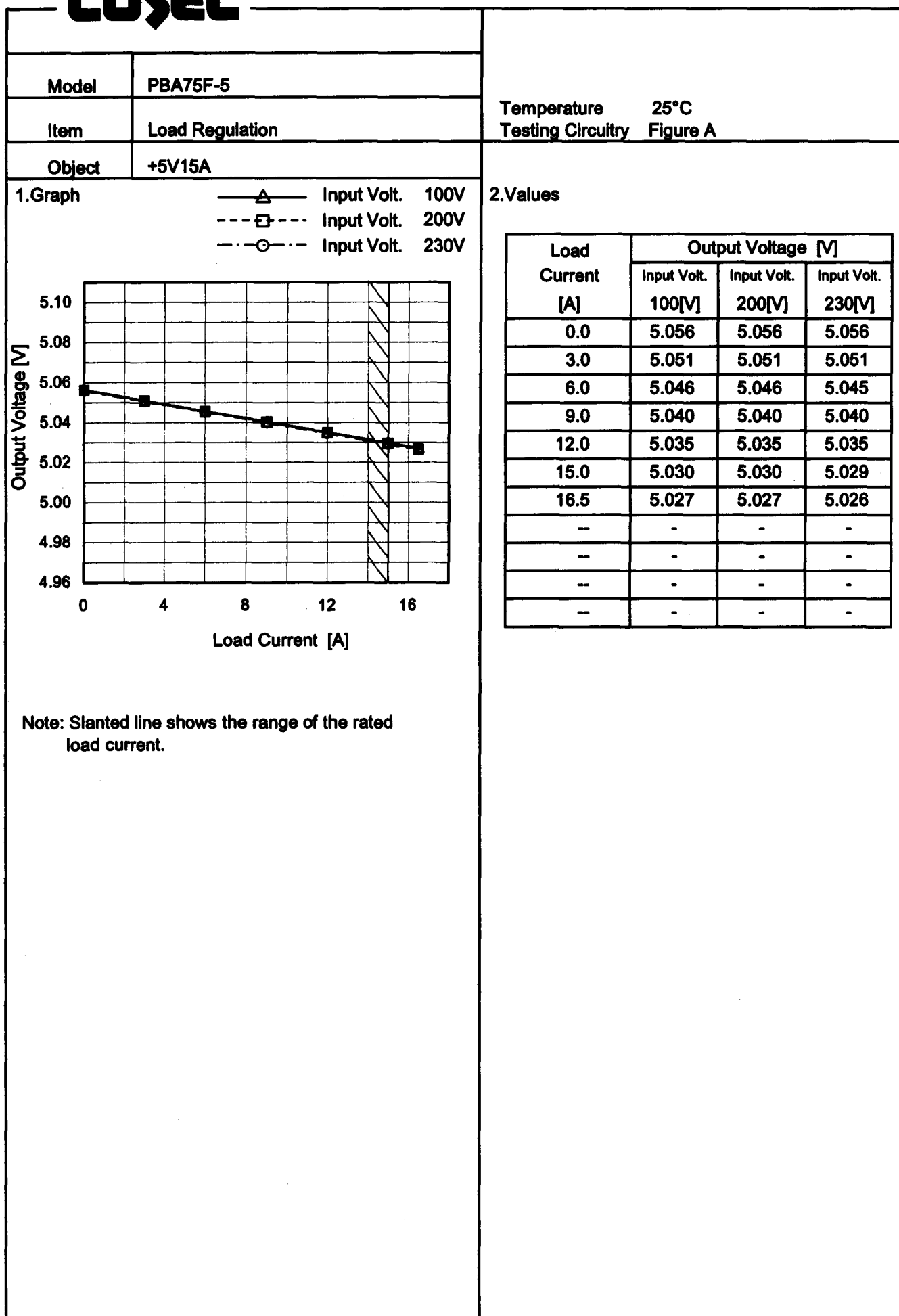
The value for "One phase" is the reference value only.

2.Condition

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

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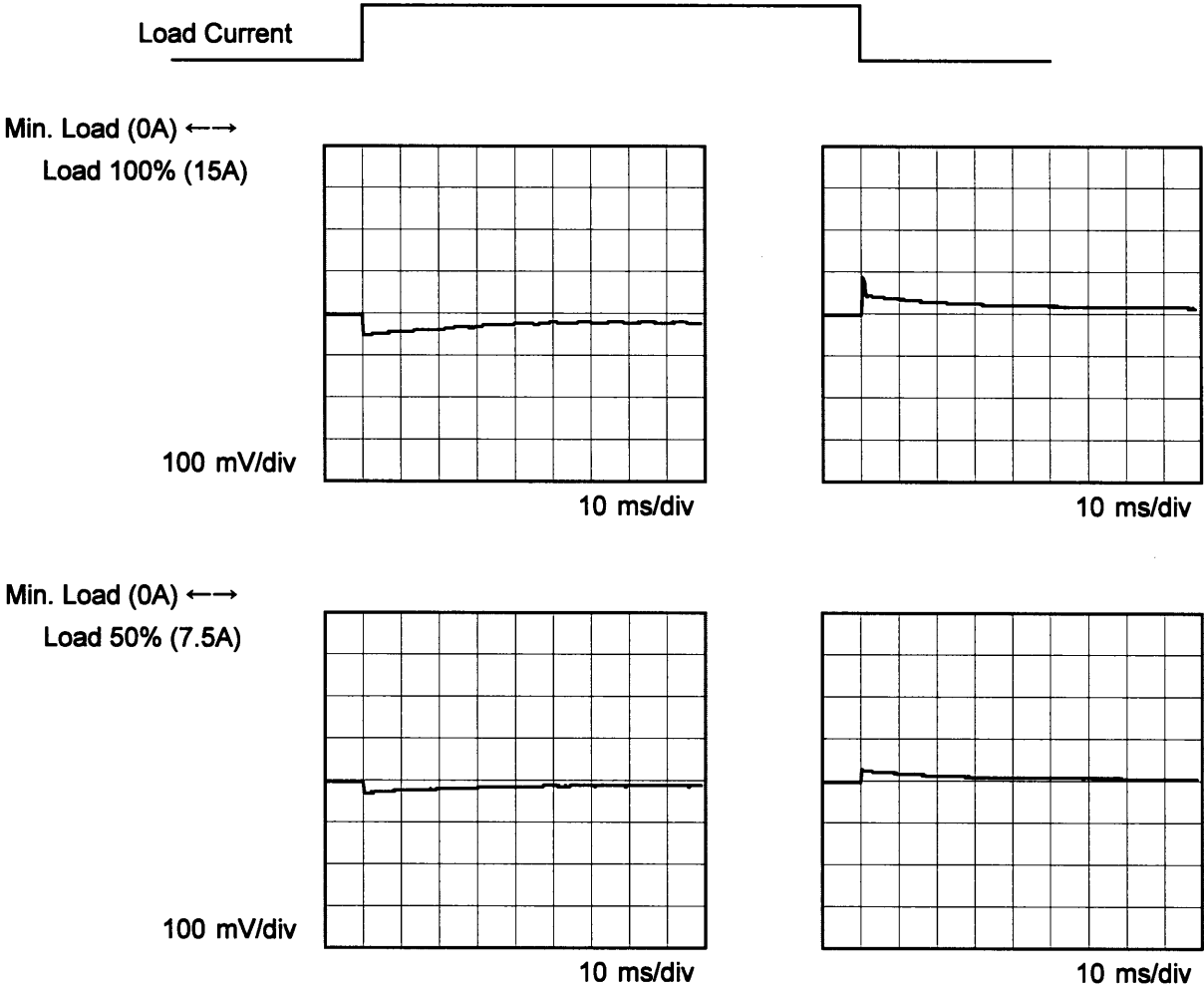
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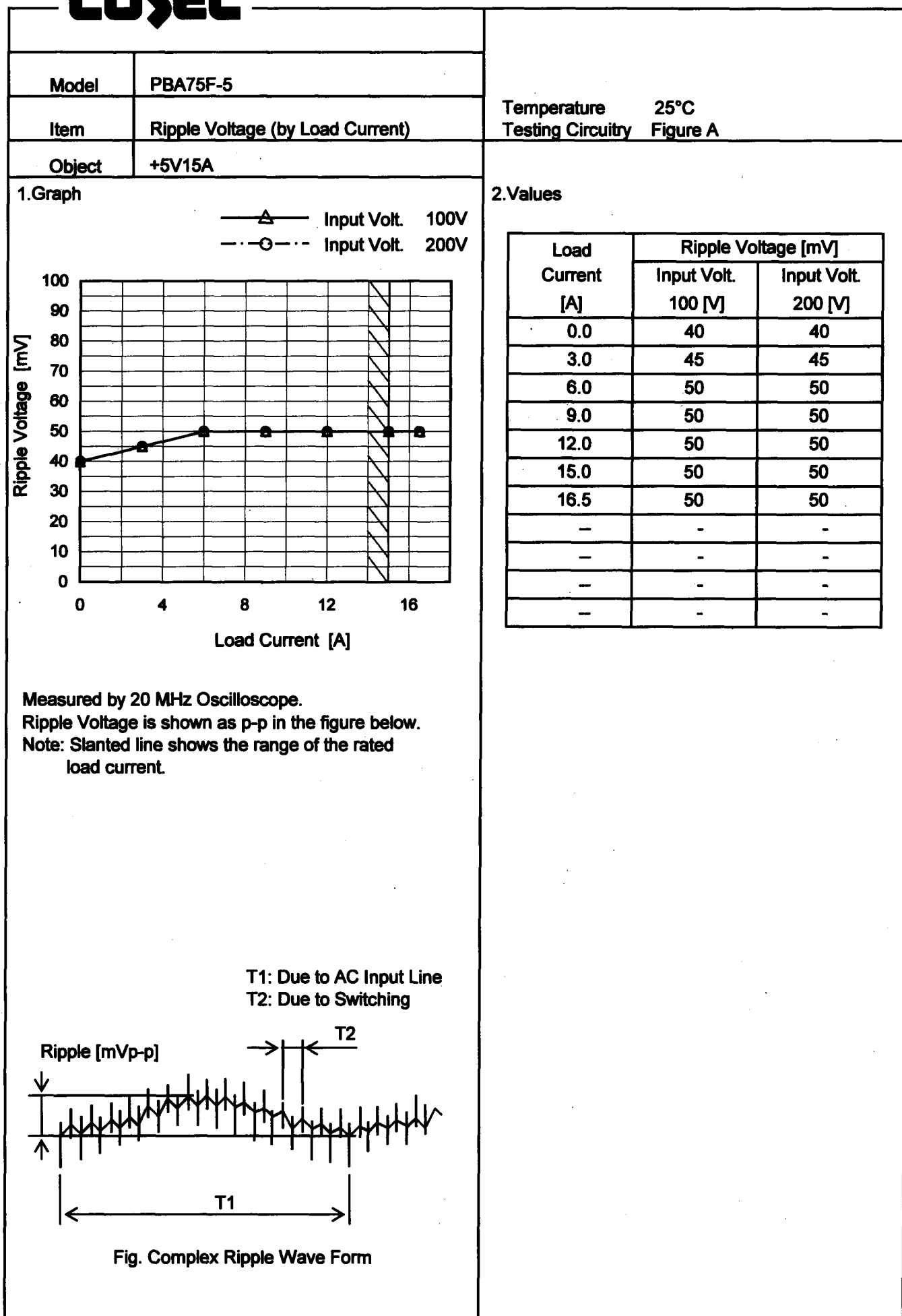
Model	PBA75F-5	Temperature 25°C Testing Circuitry Figure A	
Item	Dynamic Load Response		
Object	+5V15A		

Input Volt. 100 V
Cycle 1000 ms

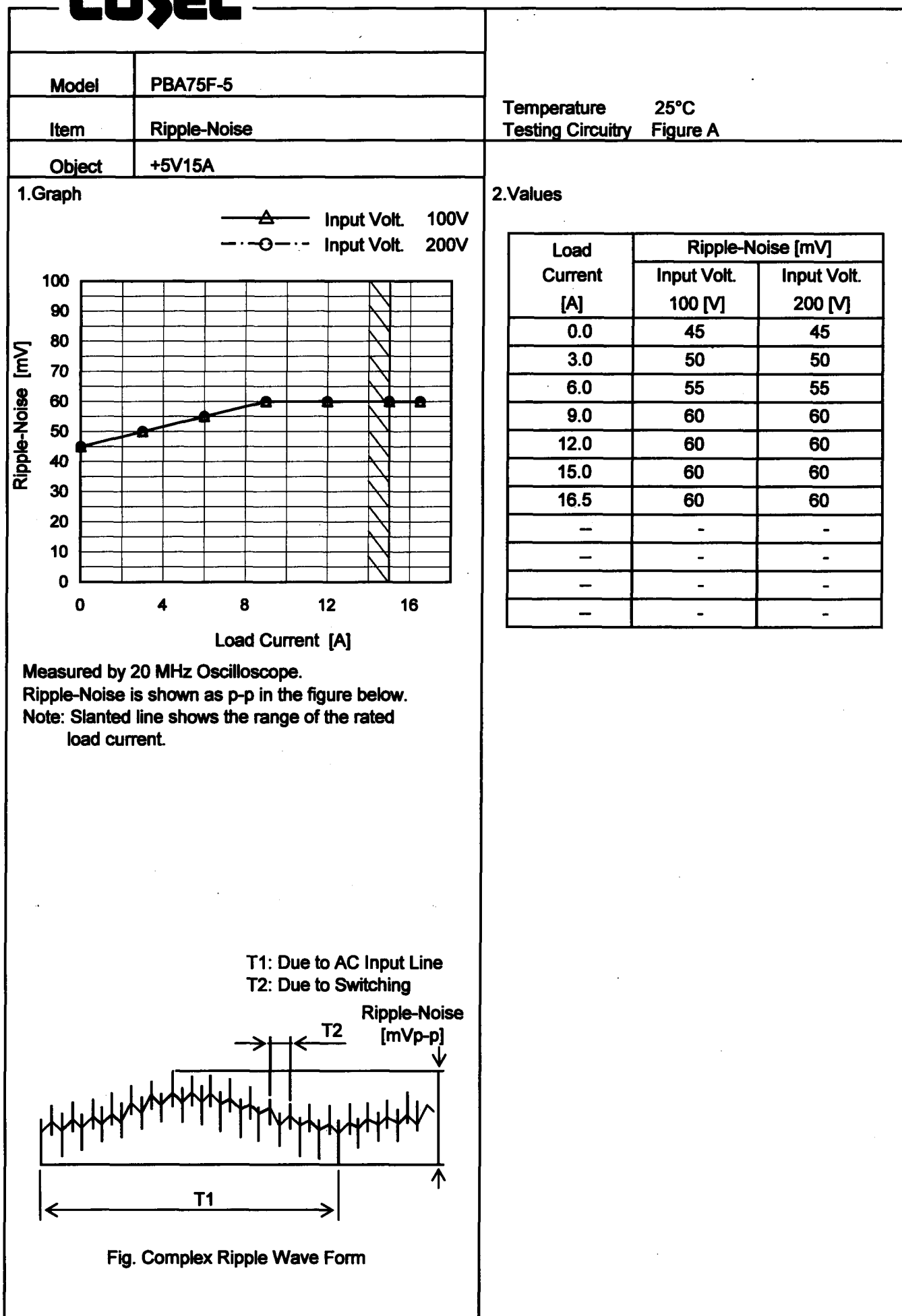


* The characteristic of AC200V is equal.

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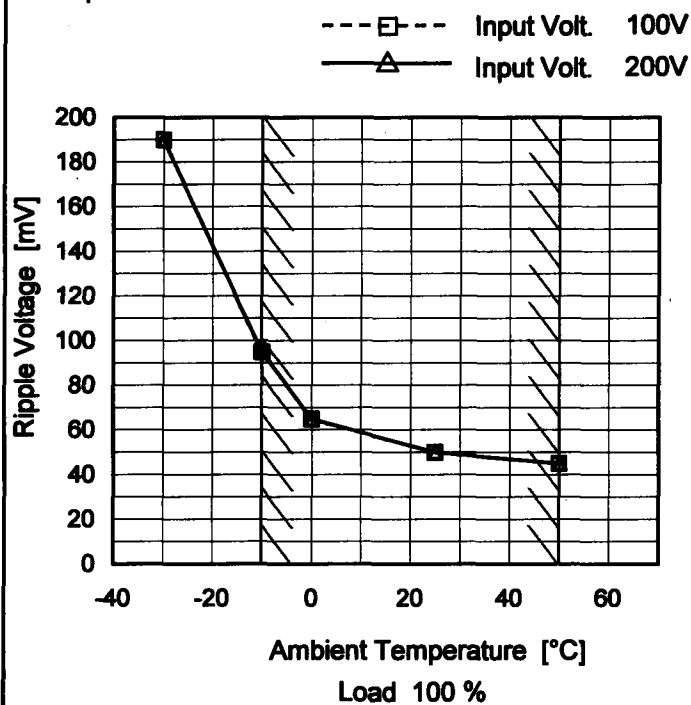
Model PBA75F-5

Item Ripple Voltage (by Ambient Temp.)

Object +5V15A

Testing Circuitry Figure A

1. Graph



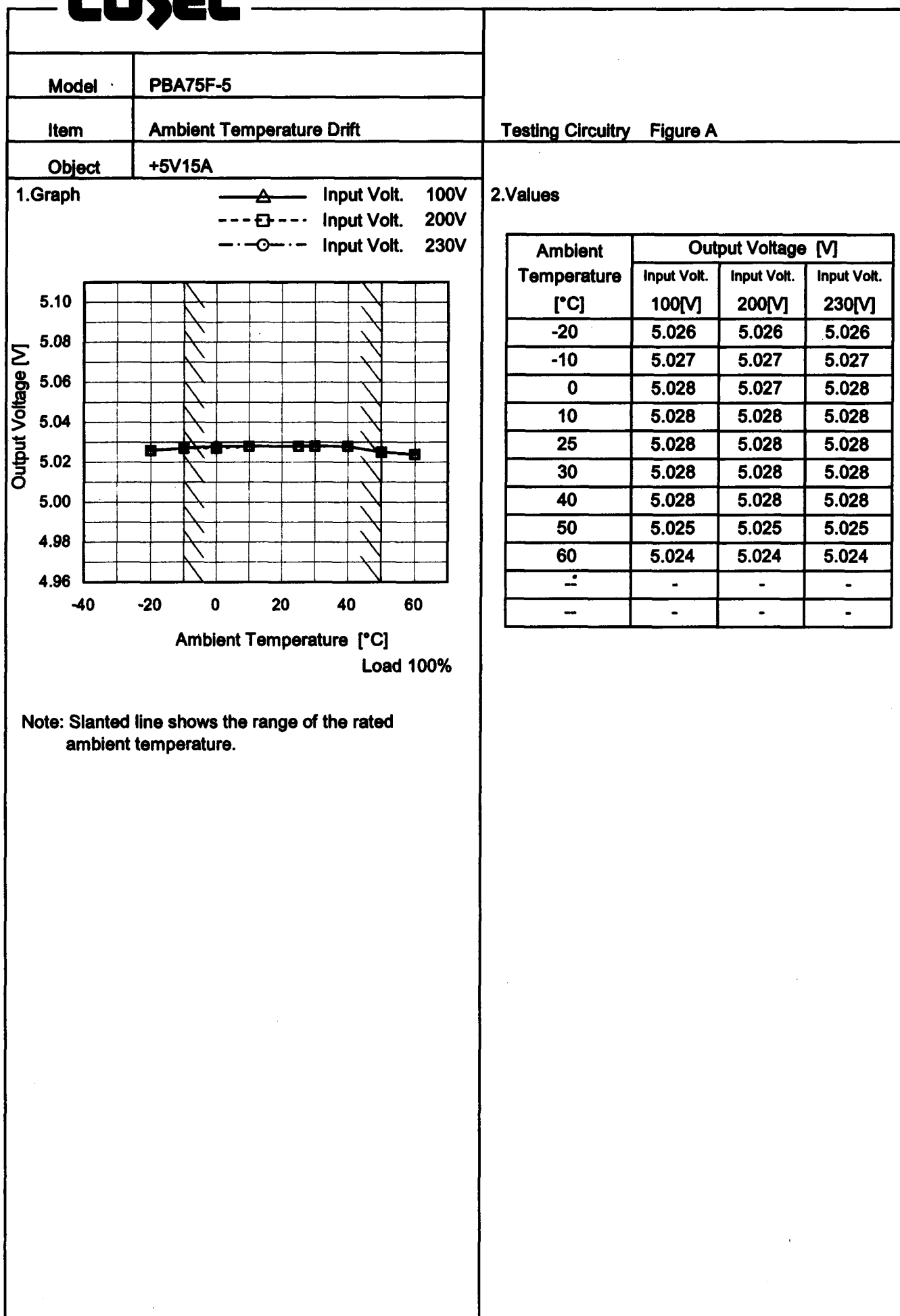
Measured by 20 MHz Oscilloscope.

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

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-30	190	190
-10	95	95
0	65	65
25	50	50
50	45	45
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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		Testing Circuitry Figure A
Model	PBA75F-5	
Item	Output Voltage Accuracy	
Object	+5V15A	

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 - 15A

* 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	40	264	0	5.055	±15	±0.3
Minimum Voltage	50	264	15	5.025		

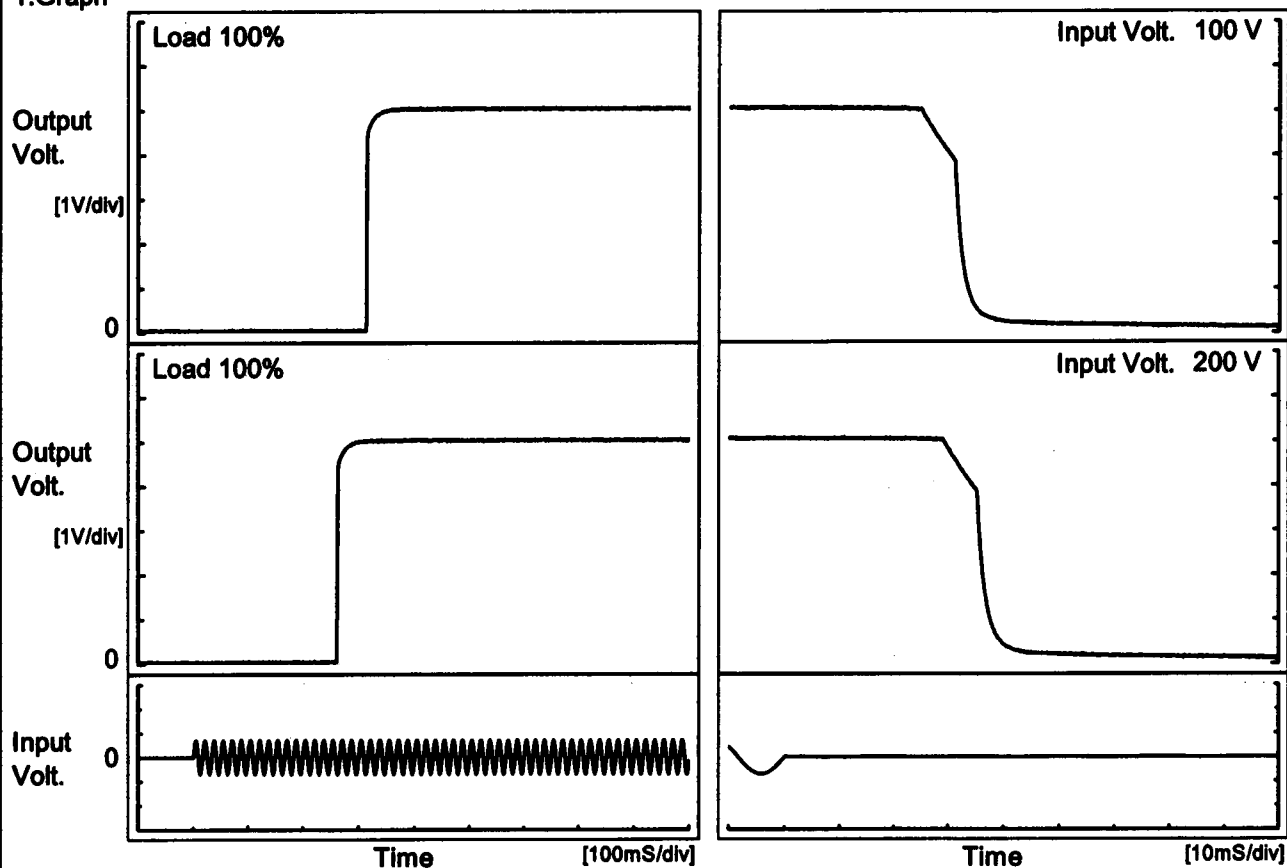
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Model	PBA75F-5		
Item	Time Lapse Drift	Temperature	25°C
		Testing Circuitry	Figure A
Object	+5V15A		
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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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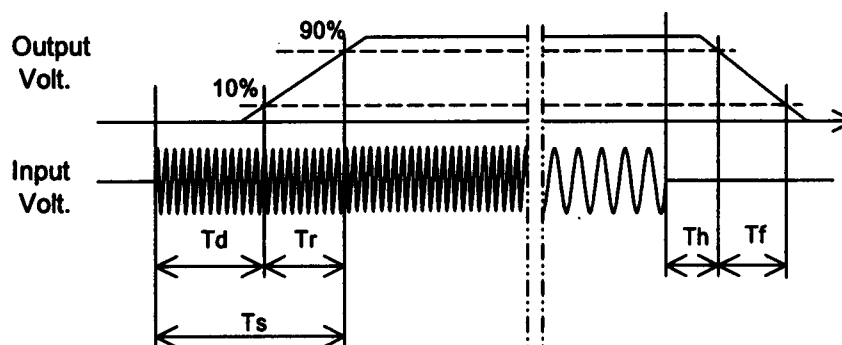
Model	PBA75F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V15A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		313.5	3.0	316.5	27.3	7.8
200 V		262.0	3.5	265.5	31.4	8.0



COSEL

Model		PBA75F-5		Temperature25°C	
Item		Hold-Up Time		Testing CircuitryFigure A	
Object		+5V15A			

1.Graph

Load 50%

Load 100%

1000

100

10

1

50

100

150

200

250

300

Hold-Up Time [mS]

Input Voltage [V]

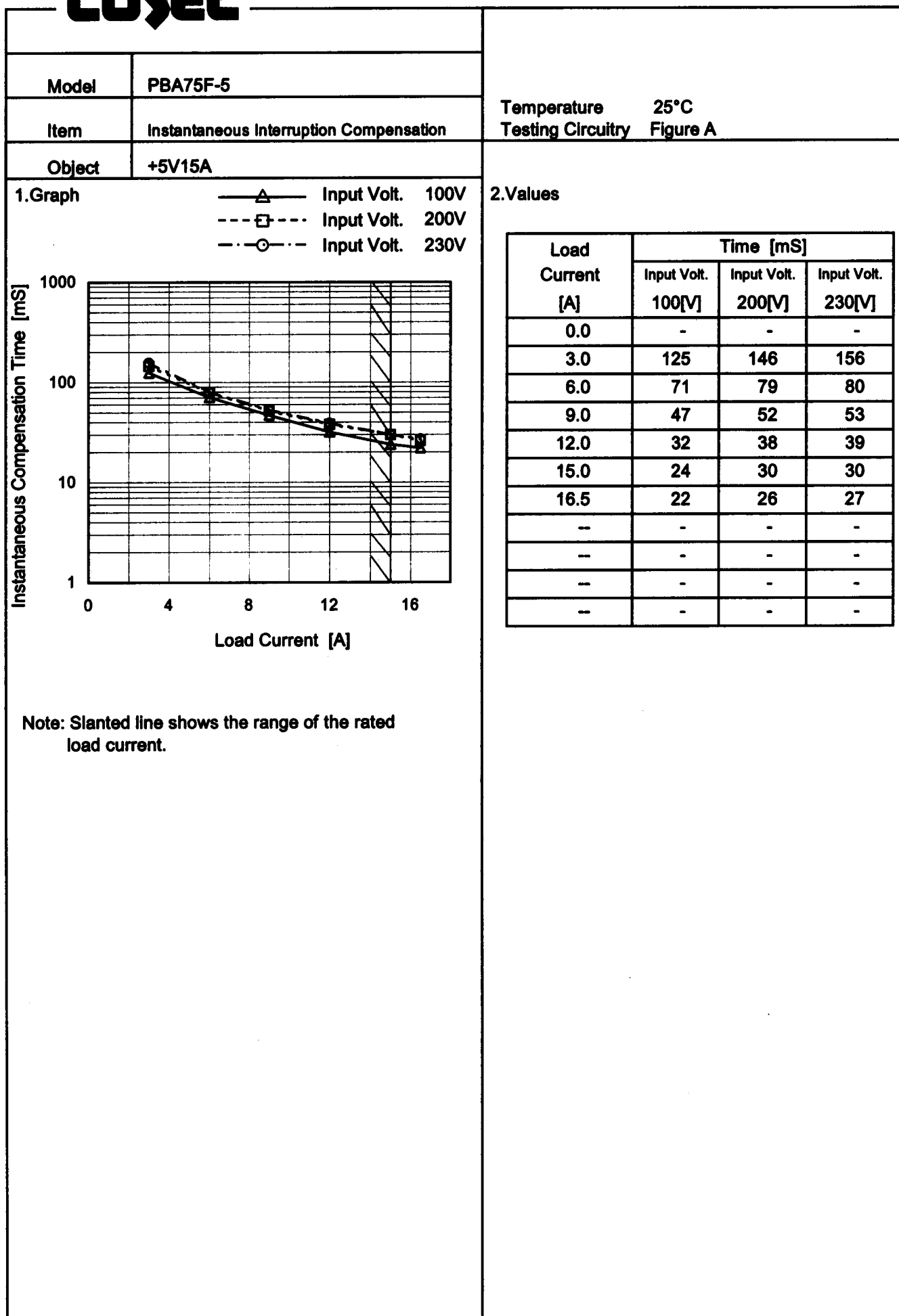
This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

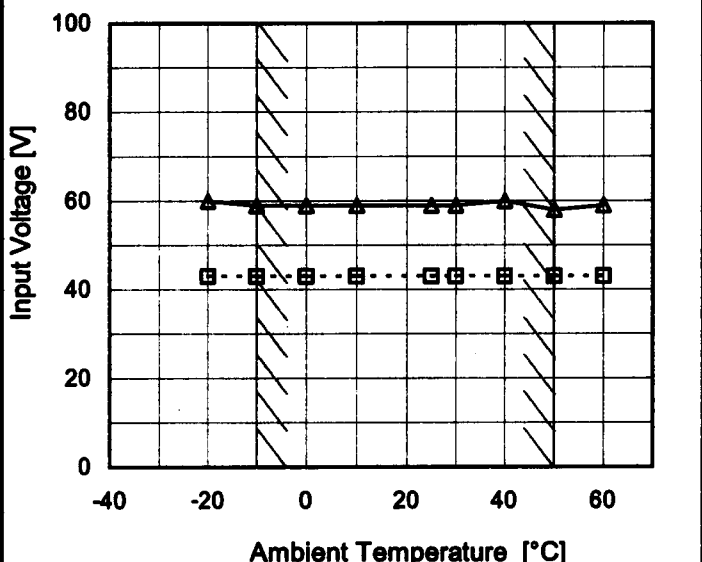
2.Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	53	21
85	55	23
100	57	25
120	59	27
200	63	29
230	64	30
264	64	30
280	64	31
--	-	-

COSEL



COSEL

Model	PBA75F-5	Testing Circuitry Figure A																																						
Item	Minimum Input Voltage for Regulated Output Voltage																																							
Object	+5V15A																																							
<p>1. Graph</p> <div style="text-align: right; margin-bottom: 10px;"> ---□--- Load 50% —△— Load 100% </div>  <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<p>2. Values</p> <table border="1" data-bbox="914 488 1468 1068"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>-20</td><td>43</td><td>60</td></tr> <tr><td>-10</td><td>43</td><td>59</td></tr> <tr><td>0</td><td>43</td><td>59</td></tr> <tr><td>10</td><td>43</td><td>59</td></tr> <tr><td>25</td><td>43</td><td>59</td></tr> <tr><td>30</td><td>43</td><td>59</td></tr> <tr><td>40</td><td>43</td><td>60</td></tr> <tr><td>50</td><td>43</td><td>58</td></tr> <tr><td>60</td><td>43</td><td>59</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	43	60	-10	43	59	0	43	59	10	43	59	25	43	59	30	43	59	40	43	60	50	43	58	60	43	59	--	-	-	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																							
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0	43	59																																						
10	43	59																																						
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COSEL

Model	PBA75F-5																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+5V15A	Testing Circuitry	Figure A																																									
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 2.5V 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>5.00</td><td>15.65</td><td>15.61</td></tr><tr><td>4.75</td><td>18.42</td><td>18.45</td></tr><tr><td>4.50</td><td>18.50</td><td>18.49</td></tr><tr><td>4.00</td><td>18.58</td><td>18.62</td></tr><tr><td>3.50</td><td>18.54</td><td>18.55</td></tr><tr><td>3.00</td><td>18.86</td><td>18.83</td></tr><tr><td>2.50</td><td>18.74</td><td>18.73</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]	5.00	15.65	15.61	4.75	18.42	18.45	4.50	18.50	18.49	4.00	18.58	18.62	3.50	18.54	18.55	3.00	18.86	18.83	2.50	18.74	18.73	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																											
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Model		PBA75F-5	
Item		Overvoltage Protection	
Object		+5V15A	

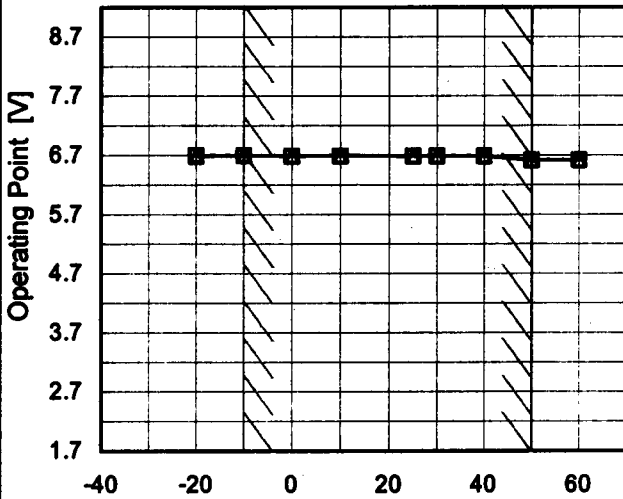
1.Graph

—△—

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	6.66	6.67
-10	6.67	6.67
0	6.66	6.66
10	6.67	6.66
25	6.66	6.66
30	6.66	6.66
40	6.66	6.66
50	6.59	6.59
60	6.59	6.59
--	-	-
--	-	-

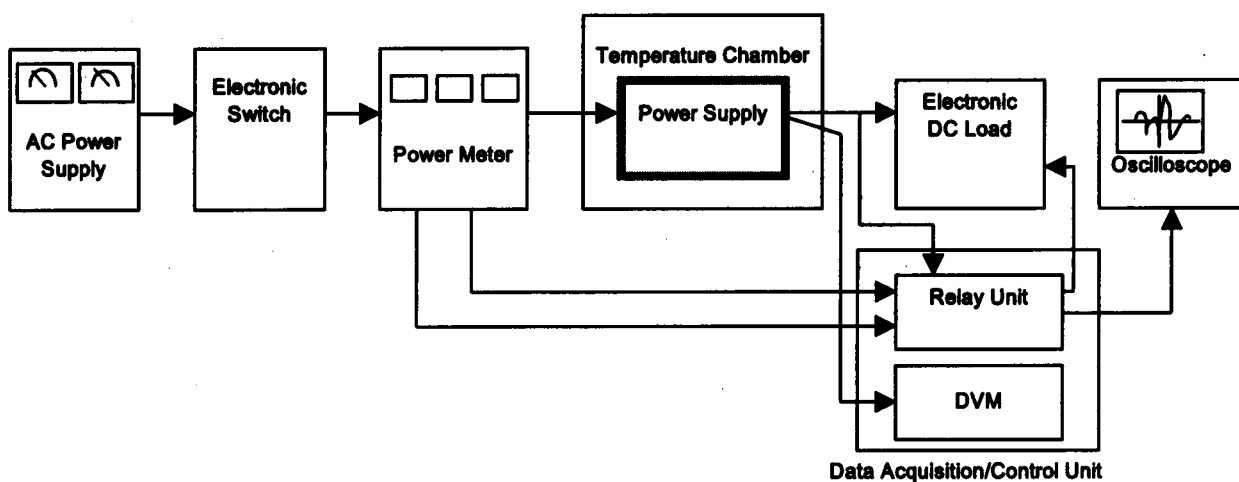


Figure A

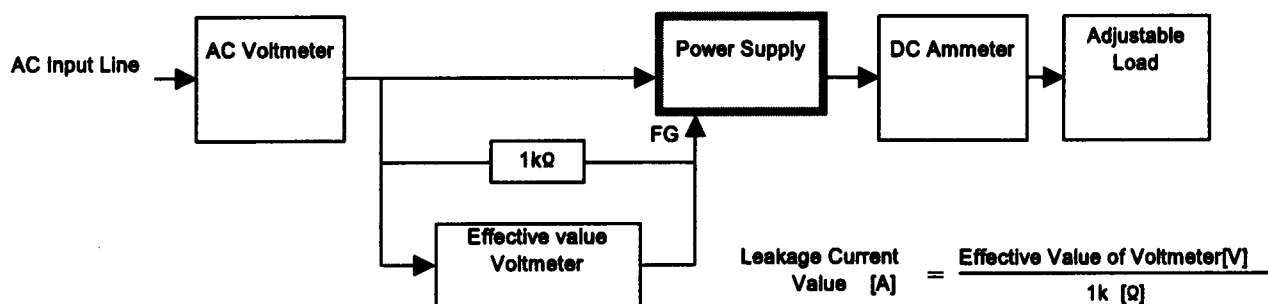


Figure B (DEN-AN)

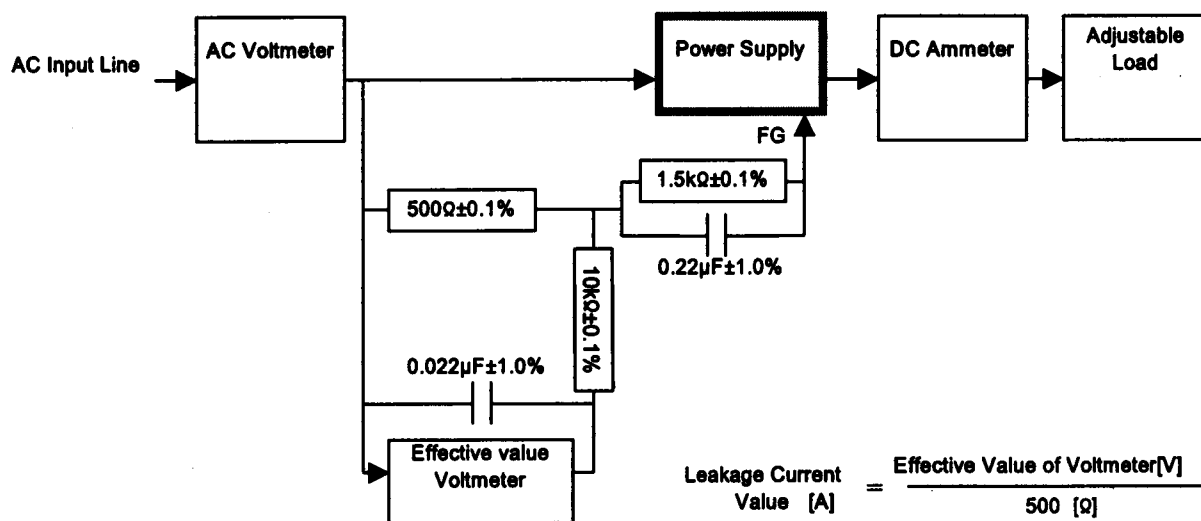


Figure B (IEC60950)