



# TEST DATA OF PBA300F-7R5

Regulated DC Power Supply  
May 28, 2004

Approved by : Takahiro Yoneda  
Takahiro Yoneda Design Manager

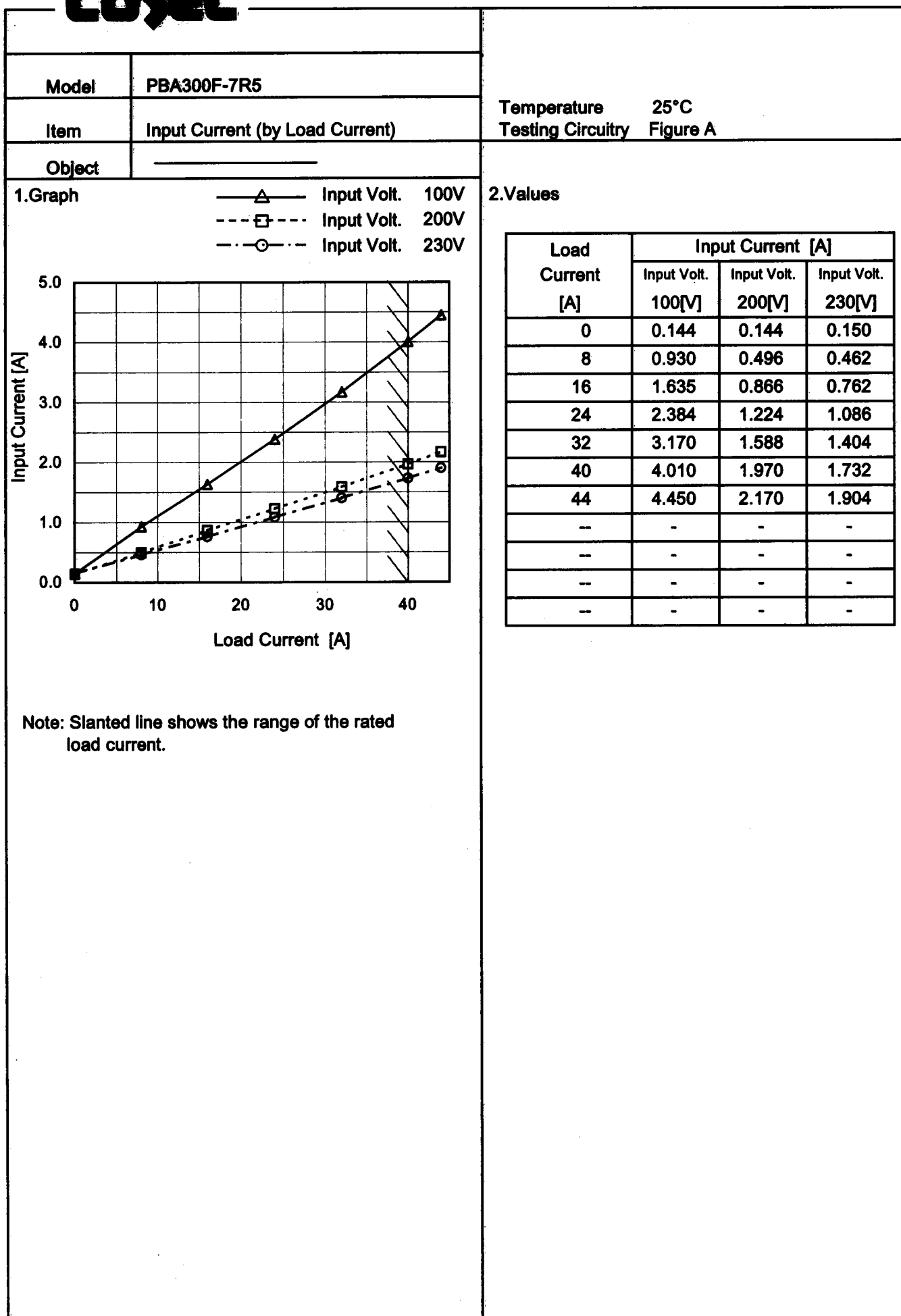
Prepared by : Hajime Goto  
Hajime Goto Design Engineer

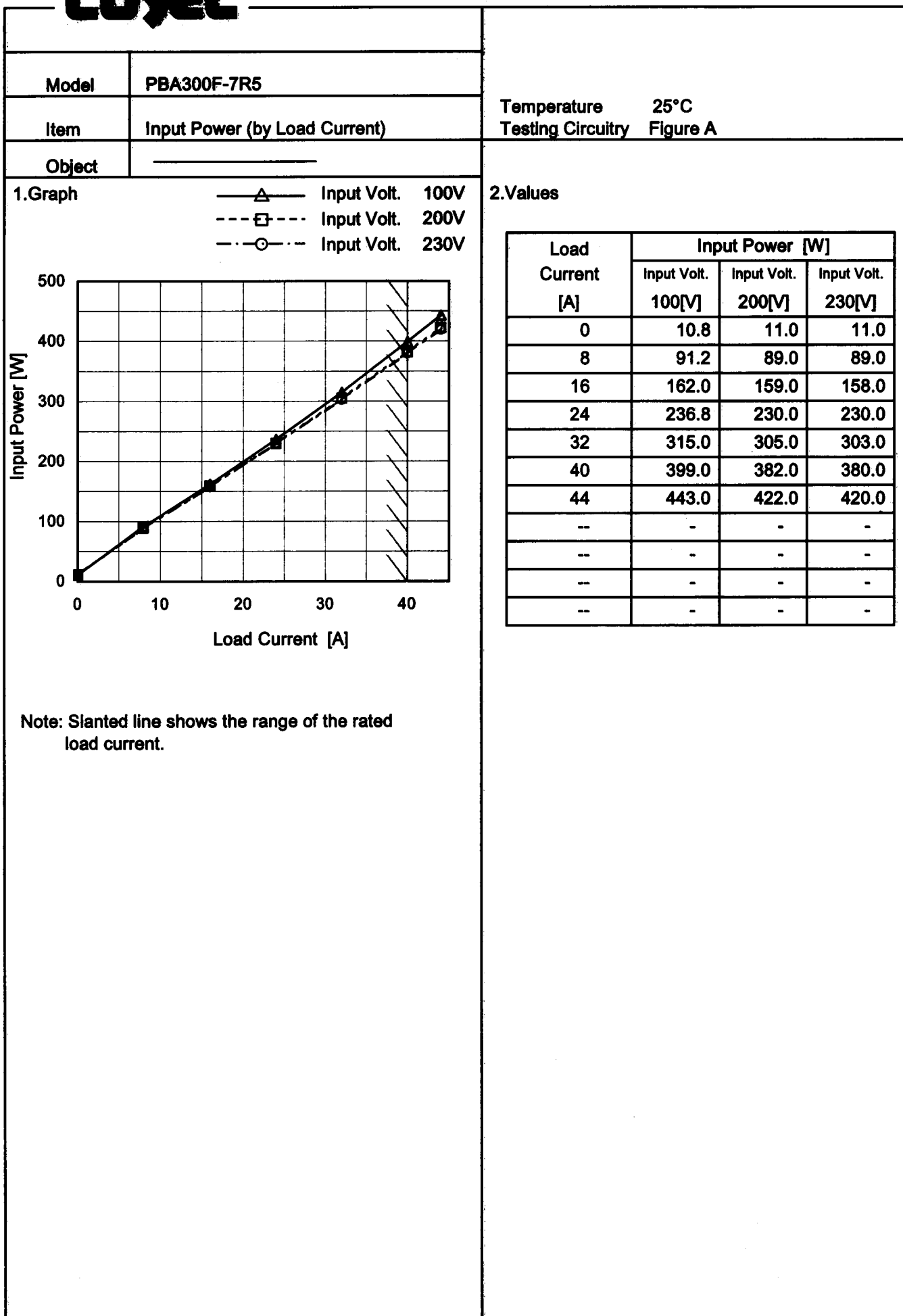
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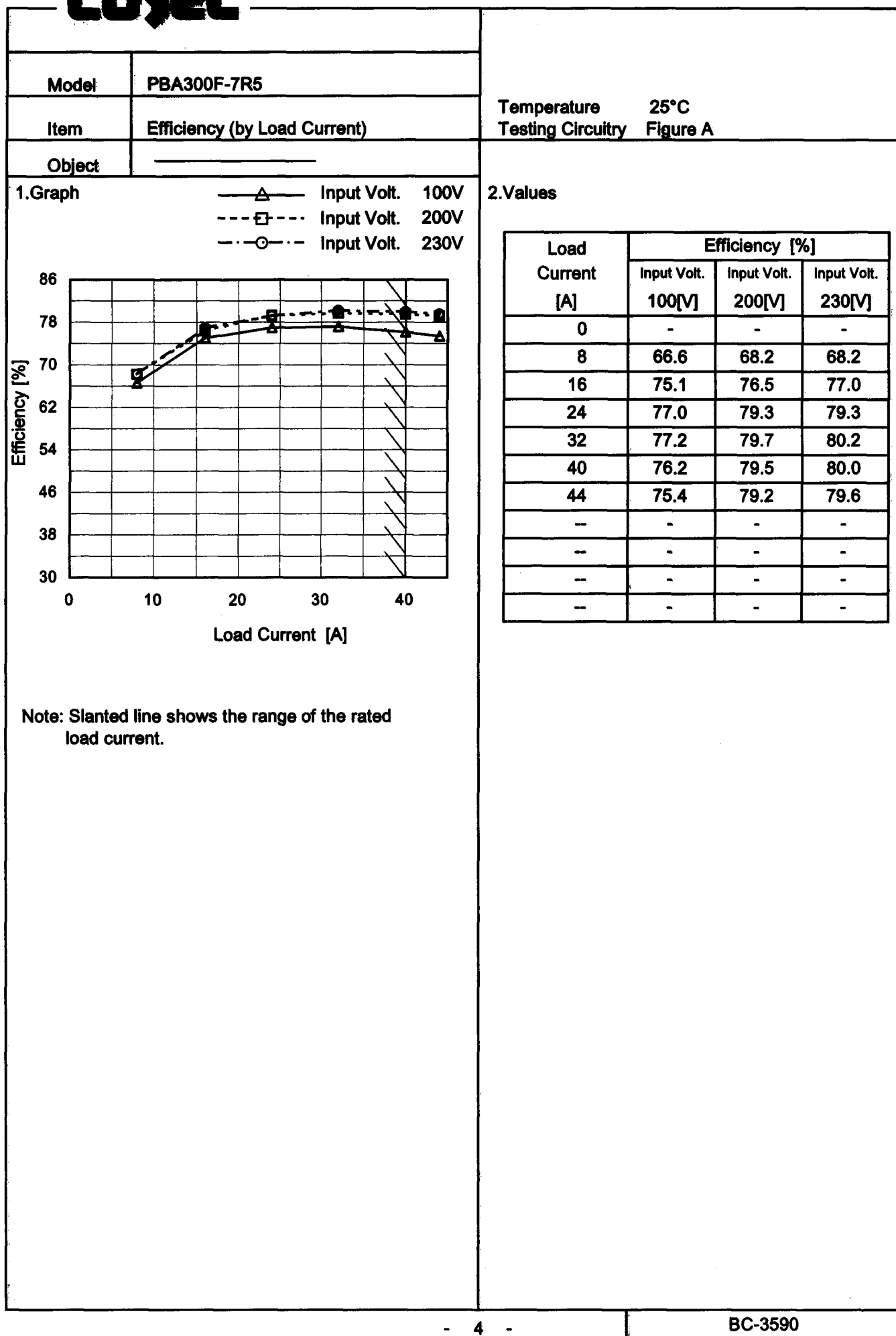
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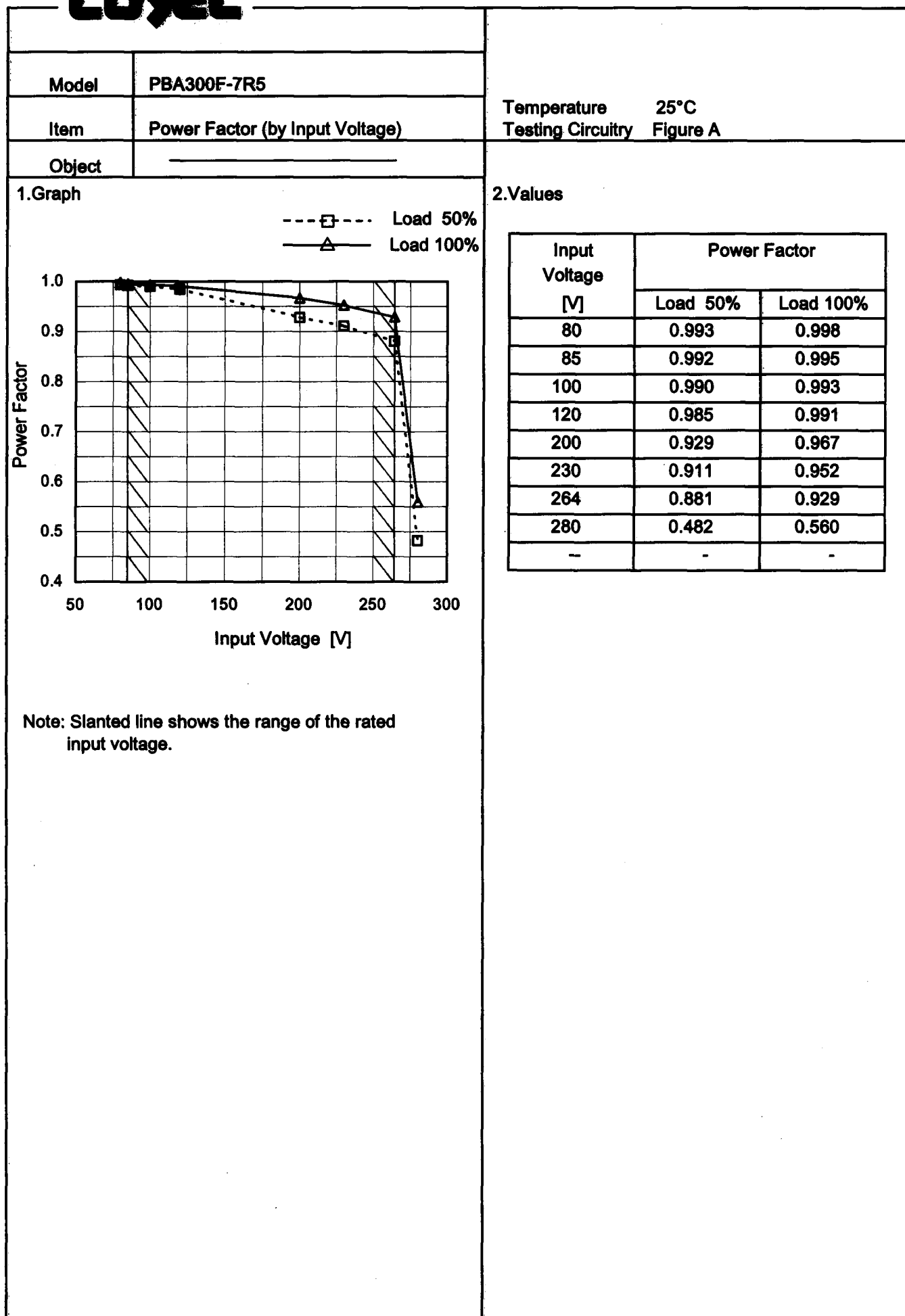


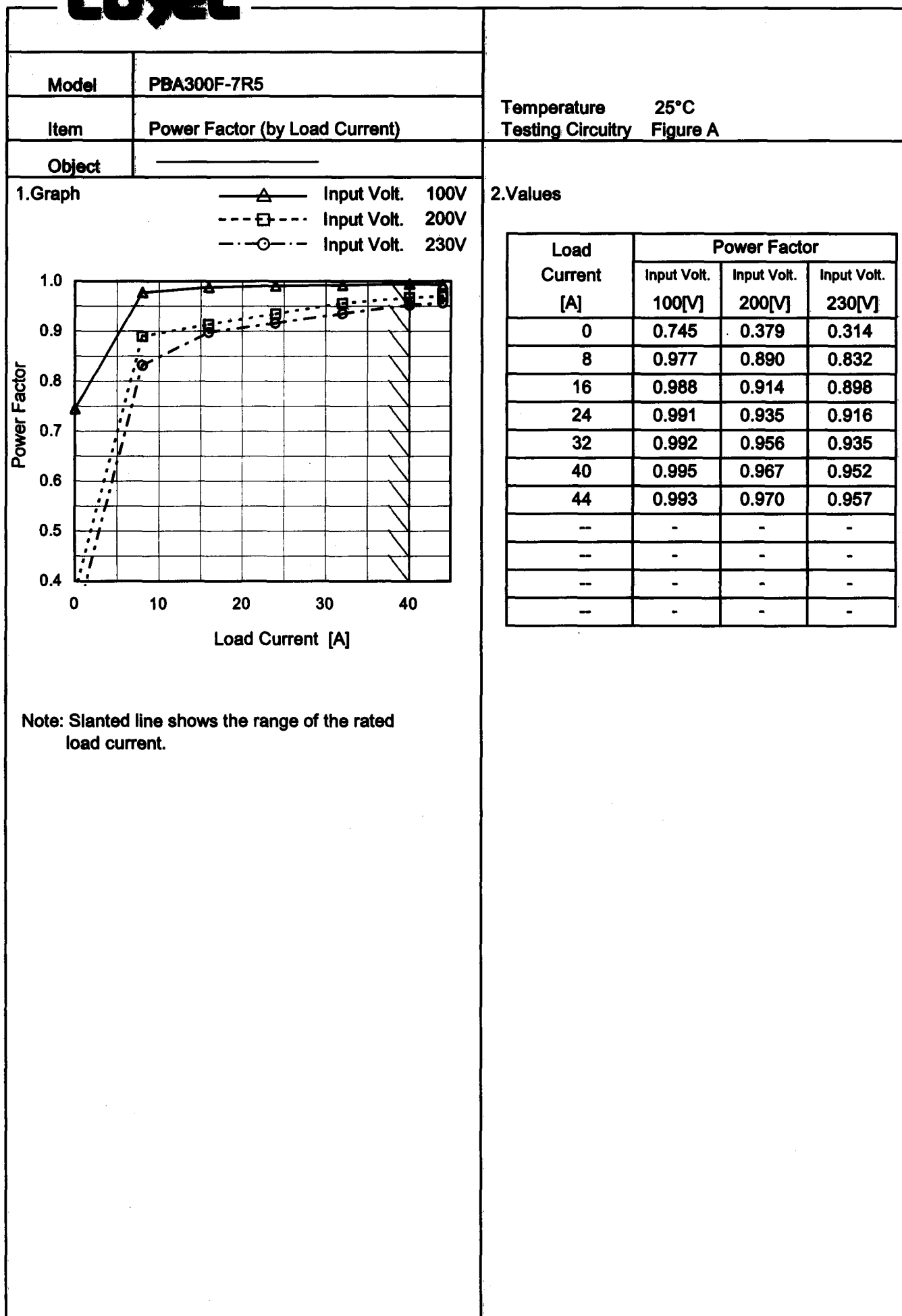
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Model		PBA300F-7R5																																	
Item		Efficiency (by Input Voltage)																																	
Object																																			
1.Graph																																			
<div><div><div><div><div></div><div></div></div><div></div></div><div>Load 50%</div></div><div><div><div><div></div><div></div></div><div></div></div><div>Load 100%</div></div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>80</td><td>75.1</td><td>73.7</td></tr><tr><td>85</td><td>75.6</td><td>74.6</td></tr><tr><td>100</td><td>76.4</td><td>76.3</td></tr><tr><td>120</td><td>77.0</td><td>77.5</td></tr><tr><td>200</td><td>77.9</td><td>79.5</td></tr><tr><td>230</td><td>78.3</td><td>79.9</td></tr><tr><td>264</td><td>79.1</td><td>80.4</td></tr><tr><td>280</td><td>80.4</td><td>80.8</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	80	75.1	73.7	85	75.6	74.6	100	76.4	76.3	120	77.0	77.5	200	77.9	79.5	230	78.3	79.9	264	79.1	80.4	280	80.4	80.8	--	-	-
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Note: Slanted line shows the range of the rated input voltage.

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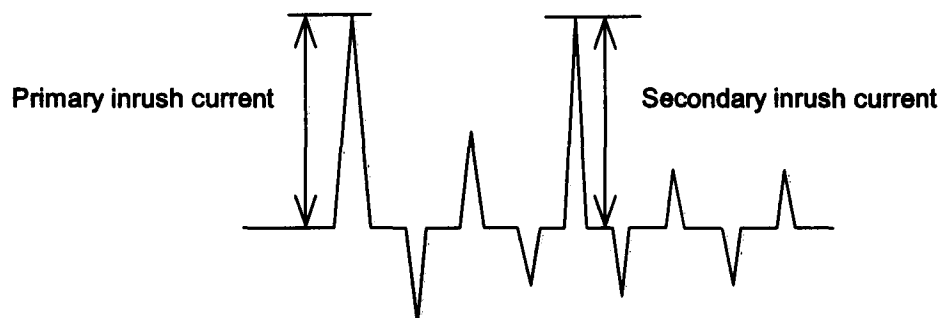
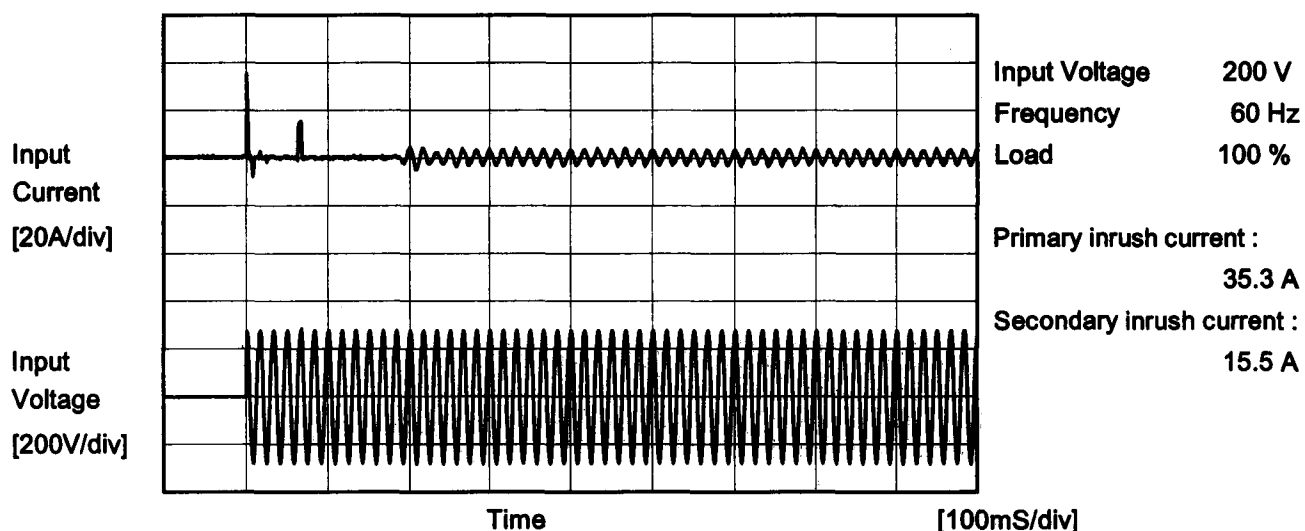
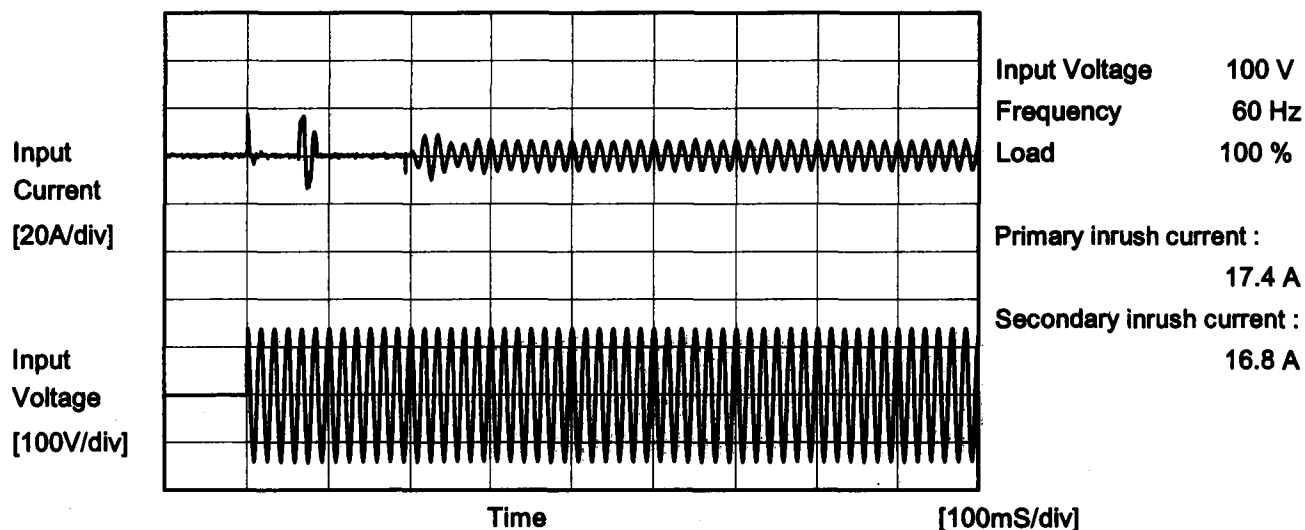
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Model	PBA300F-7R5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object			



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		Temperature 25°C Testing Circuitry Figure B
Model	PBA300F-7R5	
Item	Leakage Current	
Object	_____	

## 1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	230 [V]	
DEN-AN	Both phases	0.14	0.25	0.28	Operation
	One of phase	0.23	0.45	0.52	stand by
IEC60950	Both phases	0.14	0.25	0.28	Operation
	One of phase	0.23	0.45	0.52	stand by

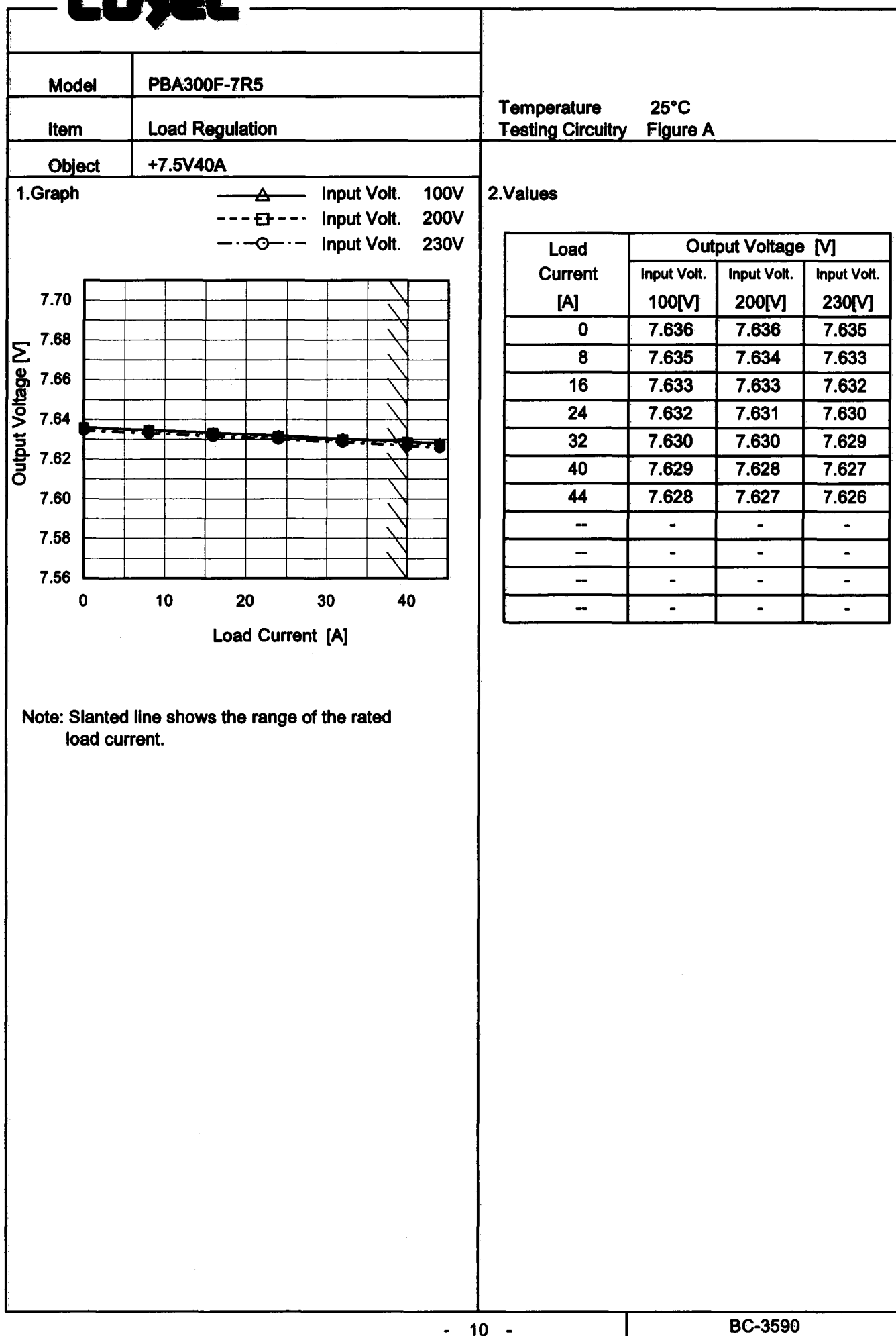
The value for "One phase" is the reference value only.

## 2.Condition

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

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Model	PBA300F-7R5	Temperature Testing Circuitry	25°C Figure A																														
Item	Line Regulation																																
Object	+7.5V40A																																
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>---△---</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>80</td><td>7.627</td><td>7.625</td></tr><tr><td>85</td><td>7.627</td><td>7.625</td></tr><tr><td>100</td><td>7.627</td><td>7.625</td></tr><tr><td>120</td><td>7.627</td><td>7.625</td></tr><tr><td>200</td><td>7.628</td><td>7.625</td></tr><tr><td>230</td><td>7.628</td><td>7.624</td></tr><tr><td>264</td><td>7.628</td><td>7.624</td></tr><tr><td>280</td><td>7.628</td><td>7.624</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	80	7.627	7.625	85	7.627	7.625	100	7.627	7.625	120	7.627	7.625	200	7.628	7.625	230	7.628	7.624	264	7.628	7.624	280	7.628	7.624	--	-	-		
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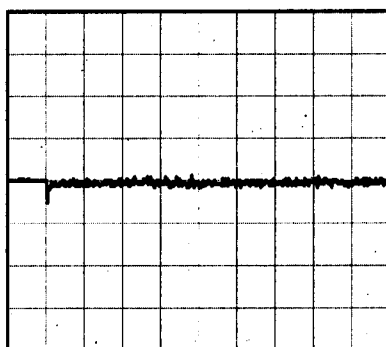
Model	PBA300F-7R5	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	+7.5V40A		

Input Volt. 100 V  
Cycle 1000 ms

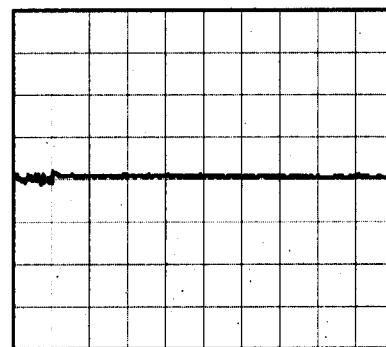
Load Current

Min. Load (0A) ↔  
Load 100% (40A)

100 mV/div



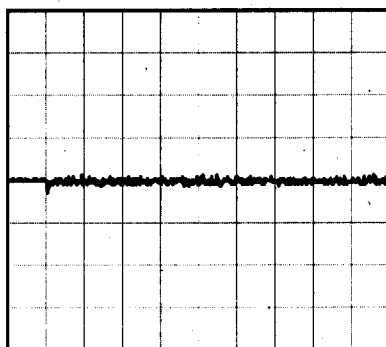
10 ms/div



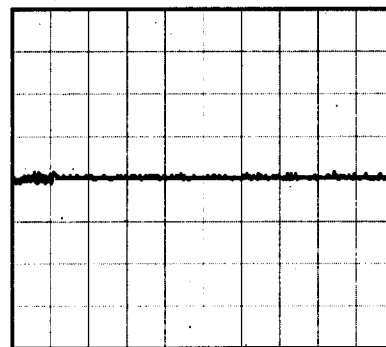
10 ms/div

Min. Load (0A) ↔  
Load 50% (20A)

100 mV/div



10 ms/div



10 ms/div

\* The characteristic of AC200V is equal.

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Model

PBA300F-7R5

Item

Ripple Voltage (by Load Current)

Object

+7.5V40A

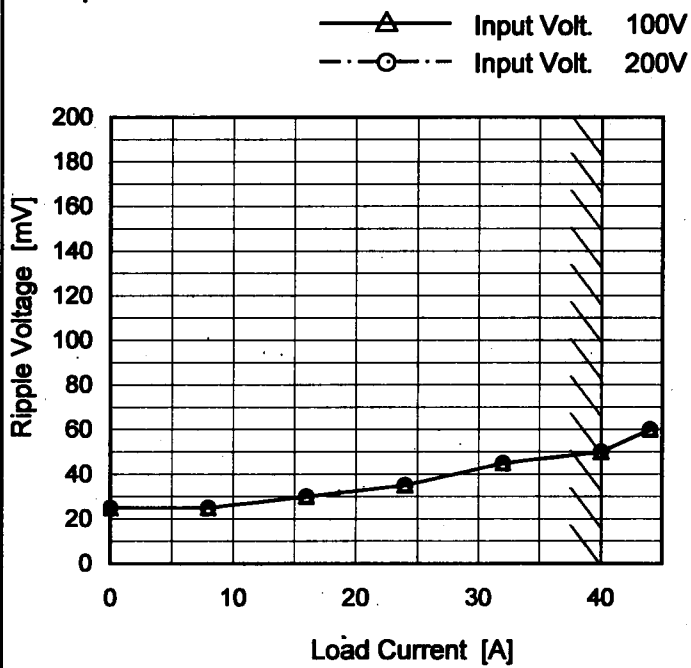
Temperature

25°C

Testing Circuitry

Figure A

## 1. Graph



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.

## 2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0	25	25
8	25	25
16	30	30
24	35	35
32	45	45
40	50	50
44	60	60
—	—	—
—	—	—
—	—	—
—	—	—

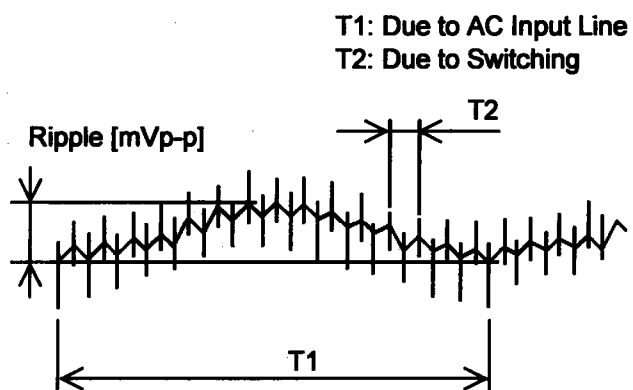


Fig. Complex Ripple Wave Form

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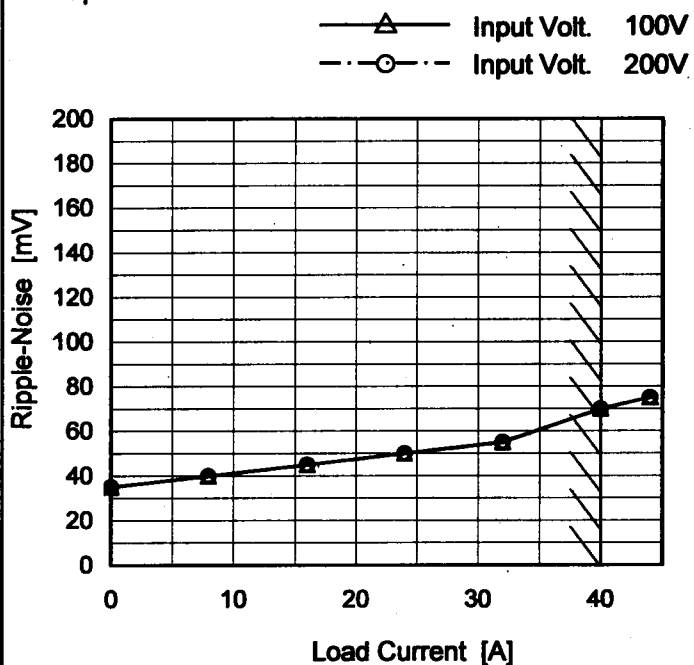
**Model** PBA300F-7R5

**Item** Ripple-Noise

**Object** +7.5V40A

**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	35	35
8	40	40
16	45	45
24	50	50
32	55	55
40	70	70
44	75	75
—	—	—
—	—	—
—	—	—
—	—	—

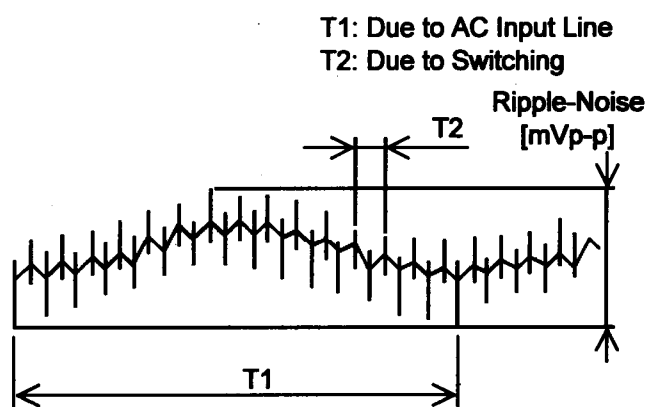


Fig. Complex Ripple Wave Form

# COSEL

Model

PBA300F-7R5

Item

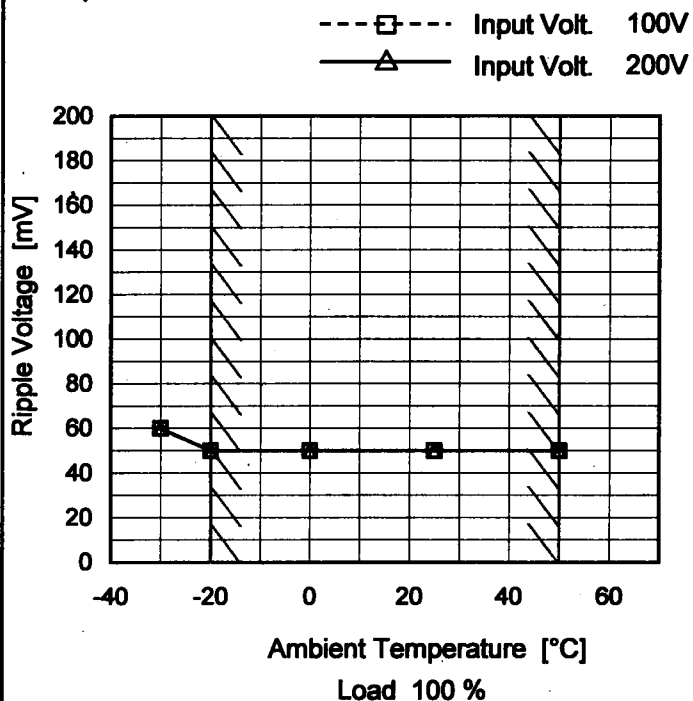
Ripple Voltage (by Ambient Temp.)

Object

+7.5V40A

Testing Circuitry Figure A

## 1. Graph



Measured by 20 MHz Oscilloscope.

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

## 2. Values

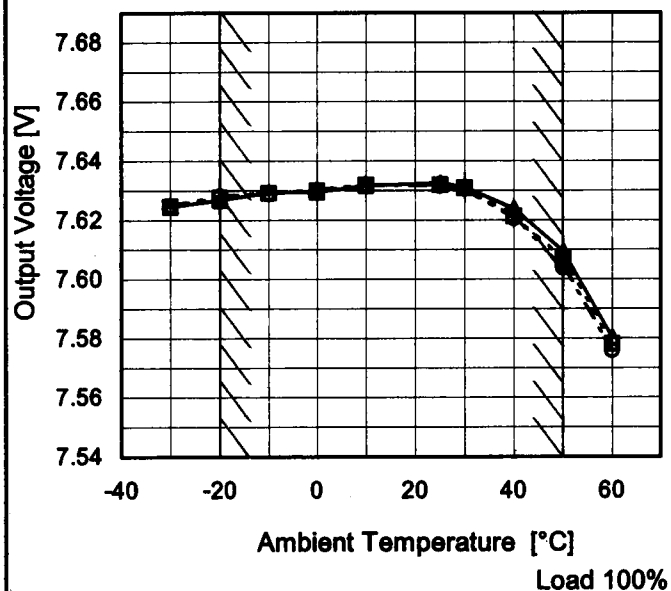
Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-30	60	60
-20	50	50
0	50	50
25	50	50
50	50	50
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—



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Model	PBA300F-7R5
Item	Ambient Temperature Drift
Object	+7.5V40A

- 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]
-30	7.625	7.625	7.625
-20	7.627	7.628	7.628
-10	7.629	7.629	7.629
0	7.630	7.630	7.630
10	7.632	7.632	7.632
25	7.633	7.632	7.632
30	7.631	7.631	7.631
40	7.624	7.621	7.621
50	7.610	7.607	7.604
60	7.580	7.578	7.576
--	-	-	-

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		Testing Circuitry Figure A
Model	PBA300F-7R5	
Item	Output Voltage Accuracy	
Object	+7.5V40A	

### 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 - 40A

\* 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	25	264	0	7.640	±19	±0.3
Minimum Voltage	50	264	40	7.602		

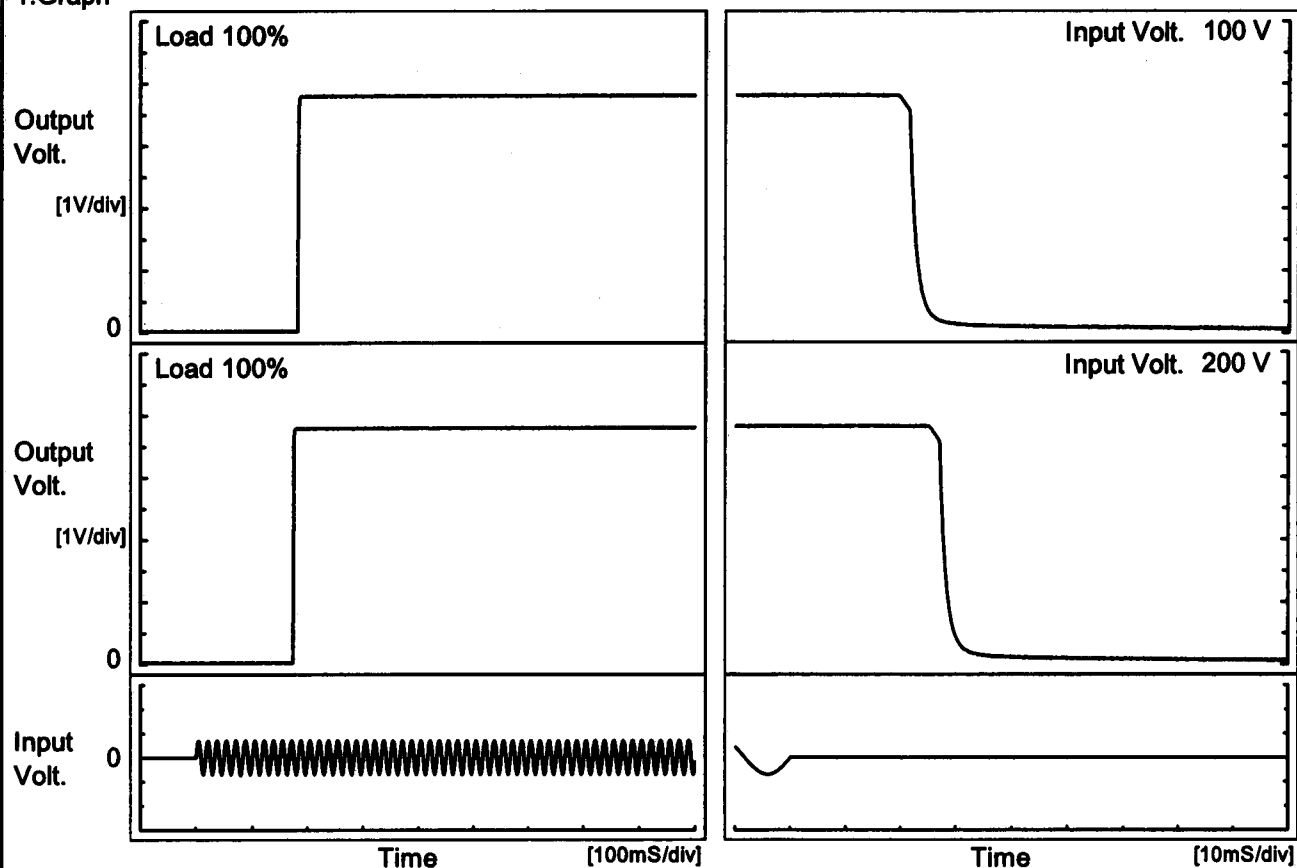
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Model		PBA300F-7R5		Temperature		25°C	
Item		Time Lapse Drift		Testing Circuitry		Figure A	
Object		+7.5V40A					
1.Graph				2.Values			
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><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**

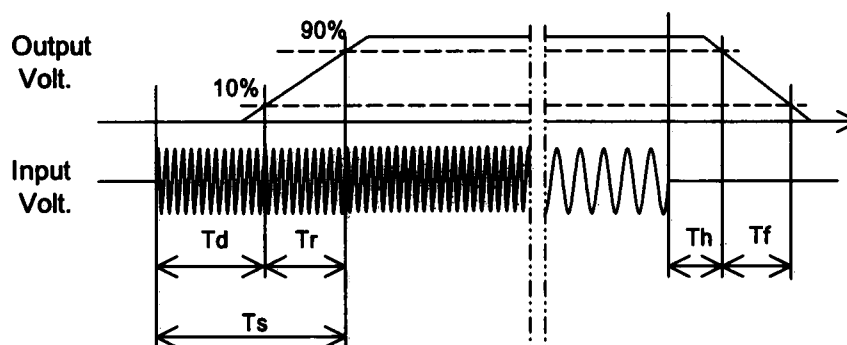
Model	PBA300F-7R5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+7.5V40A		

## 1. Graph



## 2. Values

		[mS]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		182.5	2.0	184.5	21.5	3.2
200 V		174.0	1.5	175.5	27.1	3.2

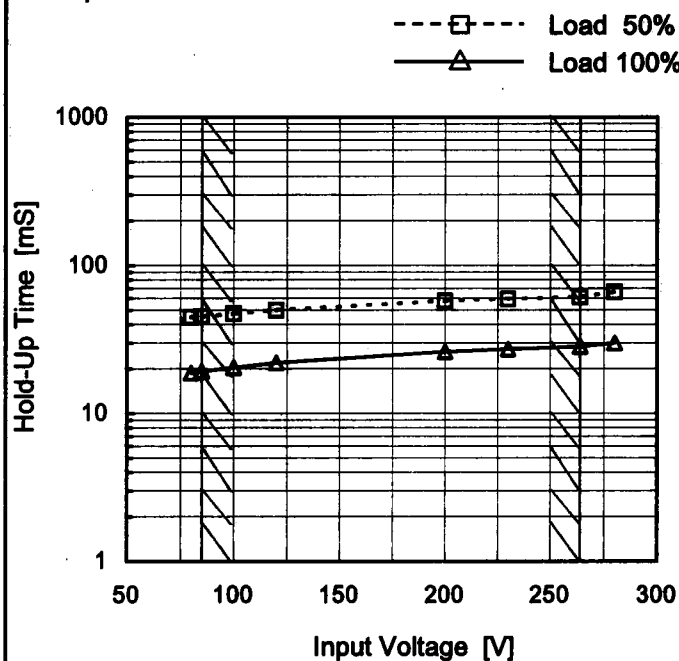


**COSEL**

Model	PBA300F-7R5
Item	Hold-Up Time
Object	+7.5V40A

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%
80	45	19
85	45	19
100	47	20
120	50	22
200	58	26
230	60	27
264	61	28
280	66	30
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**COSEL**

Model	PBA300F-7R5																																																						
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																				
Object	+7.5V40A	Testing Circuitry	Figure A																																																				
1.Graph		2.Values																																																					
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div> <p>Instantaneous Compensation Time [mS]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>8</td><td>113</td><td>134</td><td>138</td></tr><tr><td>16</td><td>56</td><td>71</td><td>73</td></tr><tr><td>24</td><td>38</td><td>47</td><td>48</td></tr><tr><td>32</td><td>25</td><td>32</td><td>36</td></tr><tr><td>40</td><td>21</td><td>26</td><td>28</td></tr><tr><td>44</td><td>16</td><td>23</td><td>23</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]	Time [mS]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0	-	-	-	8	113	134	138	16	56	71	73	24	38	47	48	32	25	32	36	40	21	26	28	44	16	23	23	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [mS]																																																						
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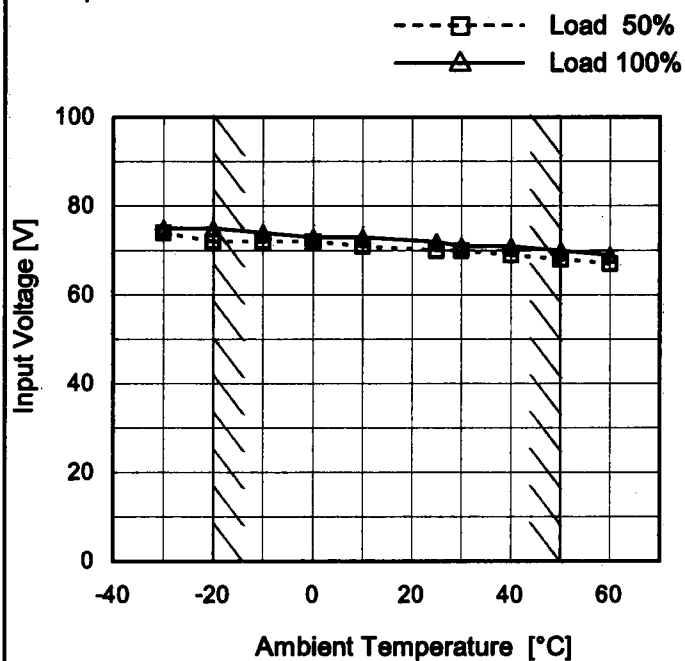
BC-3590

**COSEL**

Model	PBA300F-7R5
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+7.5V40A

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	74	75
-20	72	75
-10	72	74
0	72	73
10	71	73
25	70	72
30	70	71
40	69	71
50	68	70
60	67	69
--	-	-

**COSEL**

Model		PBA300F-7R5	
Item		Overcurrent Protection	
Object		+7.5V40A	

1.Graph

Input Volt. 100V

Input Volt. 200V

Output Voltage [V]



**COSEL**

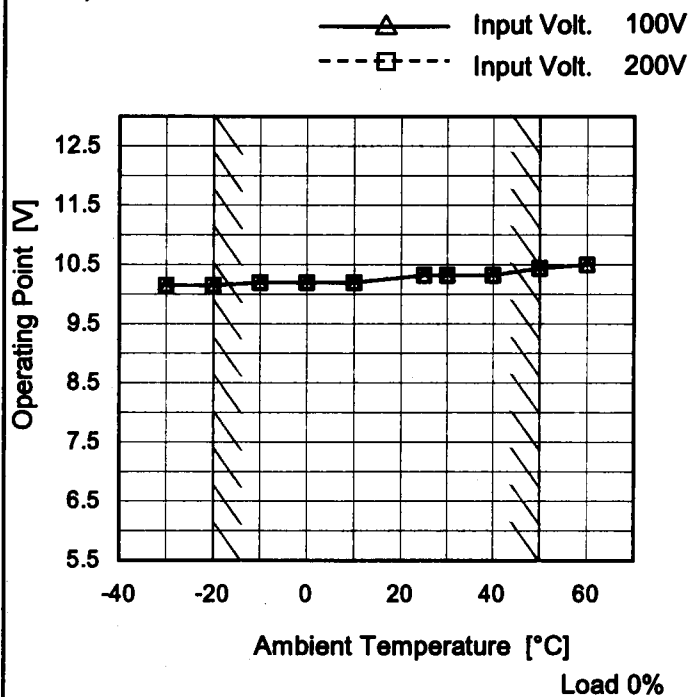
Model PBA300F-7R5

Item Overvoltage Protection

Object +7.5V40A

Testing Circuitry Figure A

## 1. Graph



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	10.19	10.19
-20	10.19	10.19
-10	10.24	10.24
0	10.24	10.24
10	10.24	10.24
25	10.36	10.36
30	10.36	10.36
40	10.36	10.36
50	10.48	10.48
60	10.54	10.54
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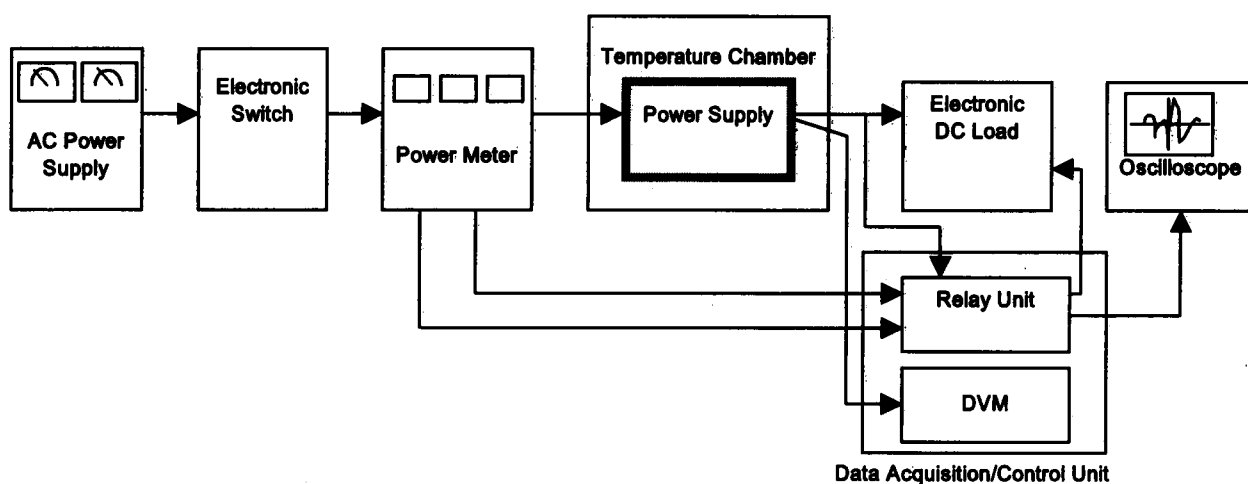


Figure A

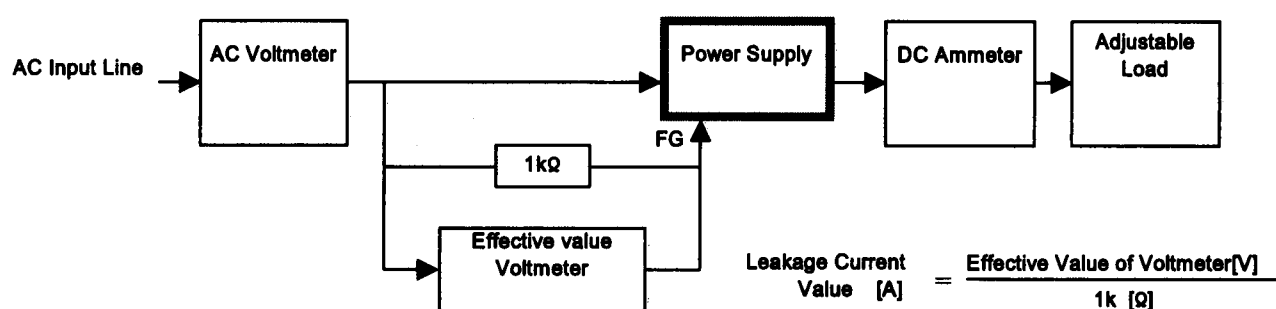


Figure B ( DEN-AN )

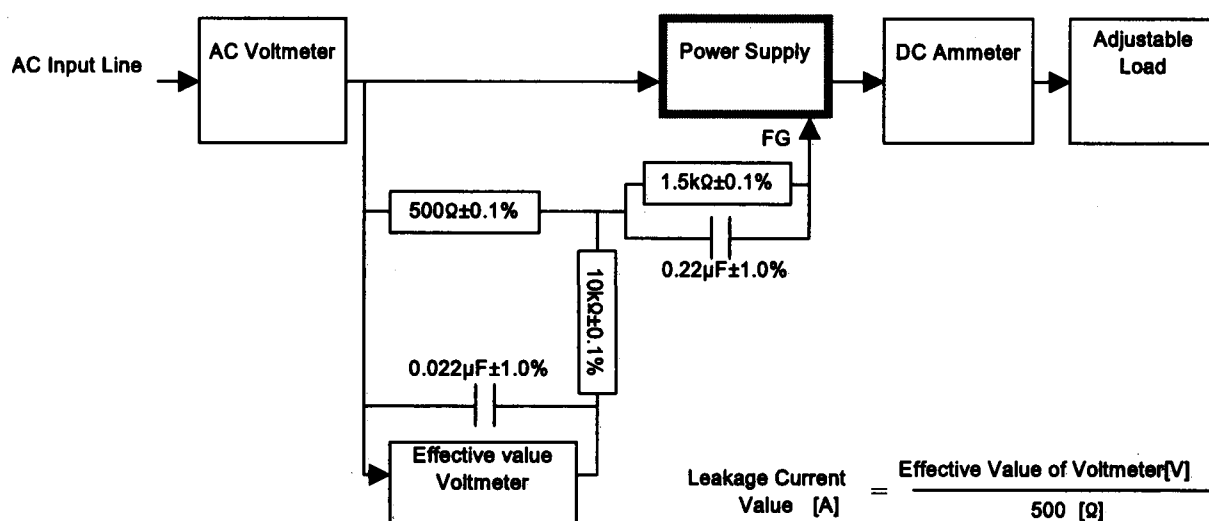


Figure B ( IEC60950 )