

# TEST DATA OF PBA1000F-7R5

Regulated DC Power Supply  
Mar.30, 2004

Approved by : Kuniaki Nagahara  
Kuniaki Nagahara Design Manager

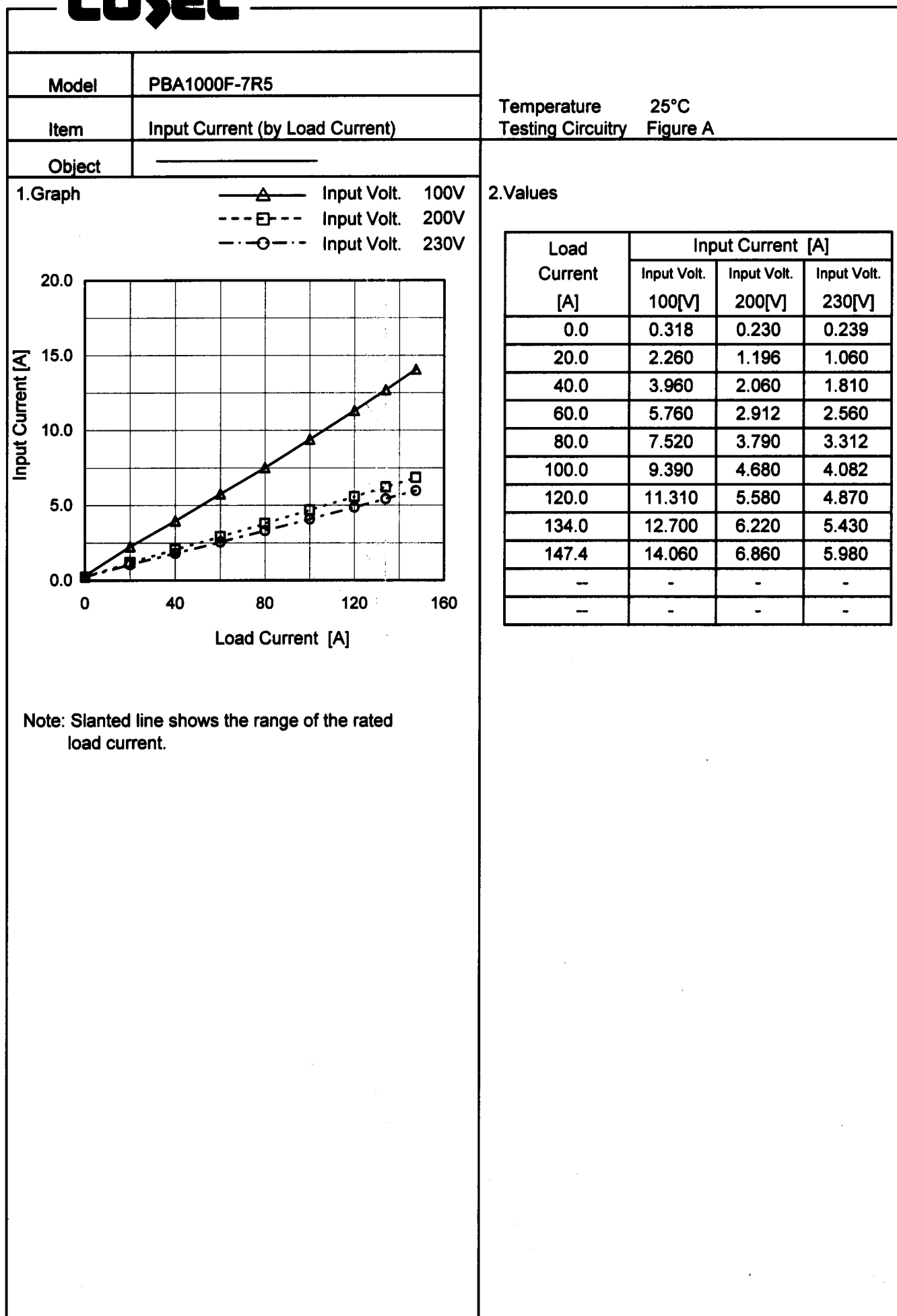
Prepared by : Kazunari Uotani  
Kazunari Uotani Design Engineer

**COSEL CO.,LTD.**

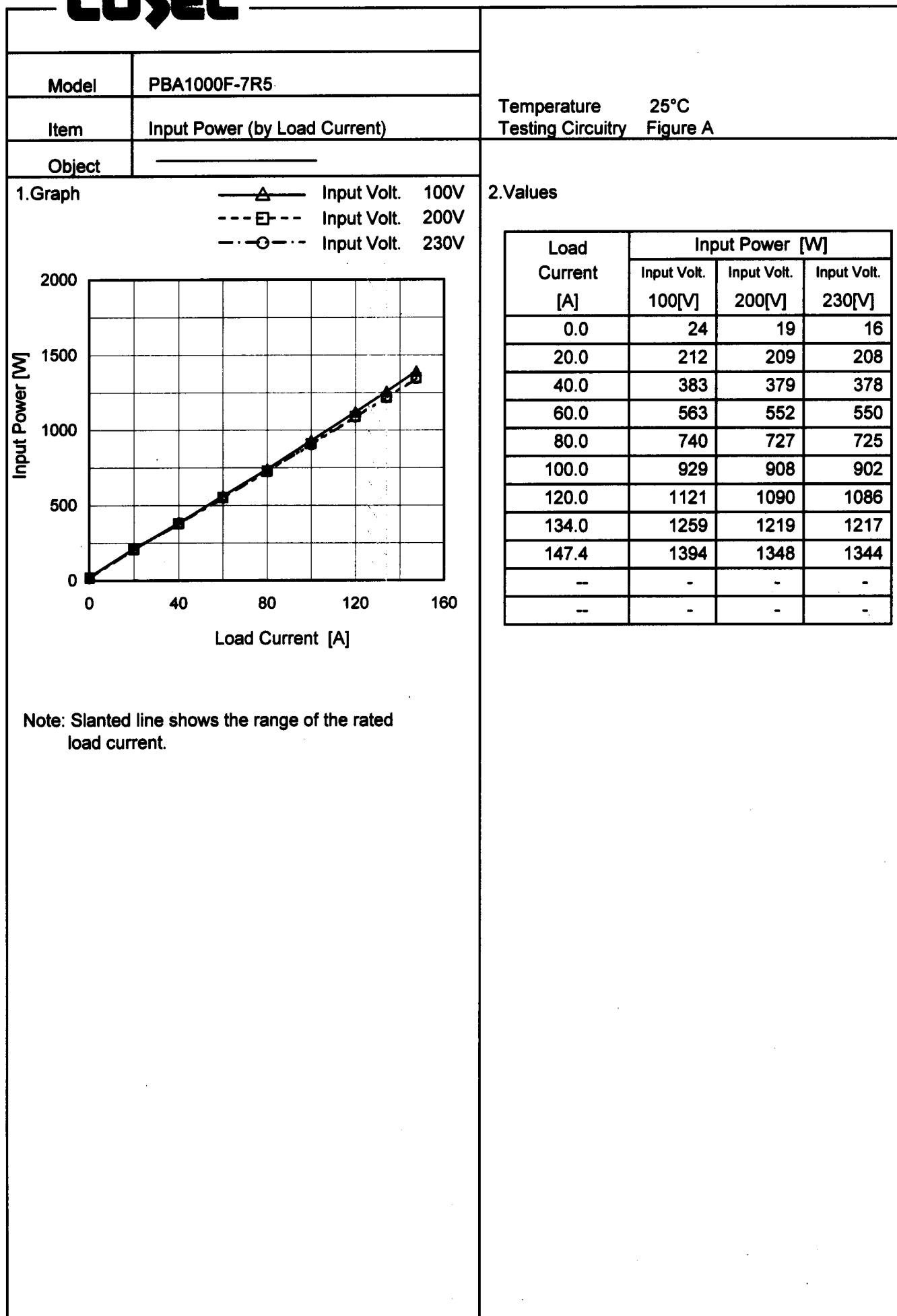
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(Final Page 24)

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Model		PBA1000F-7R5	
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]

- 4 -



Model		PBA1000F-7R5	
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%
77	0.989	0.998
85	0.989	0.998
100	0.984	0.998
120	0.981	0.995
200	0.955	0.982
230	0.943	0.976
264	0.931	0.967
280	0.595	0.670
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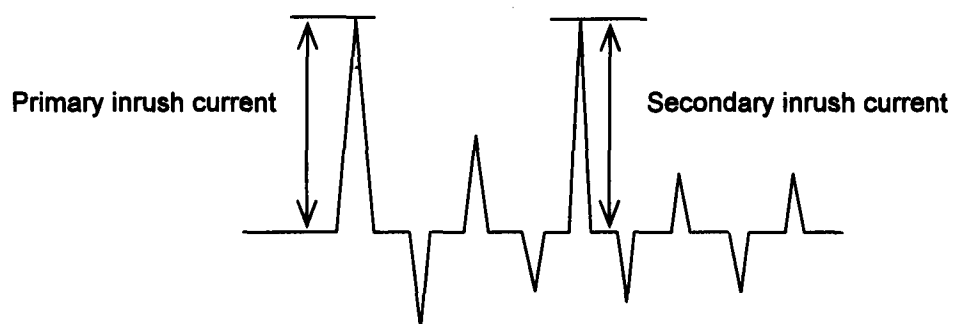
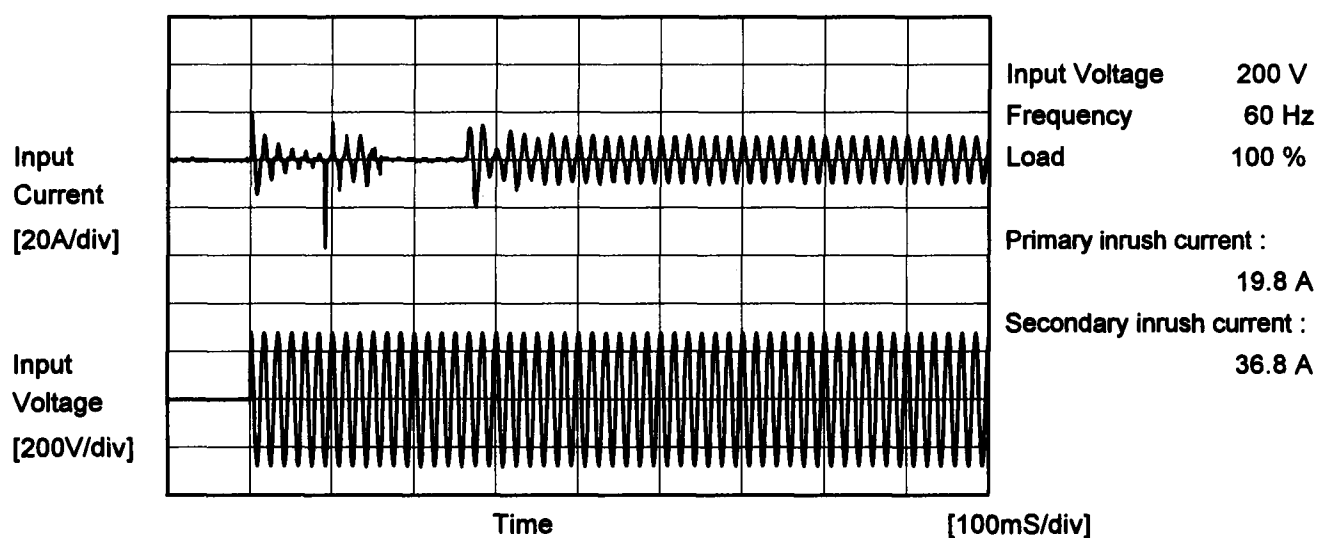
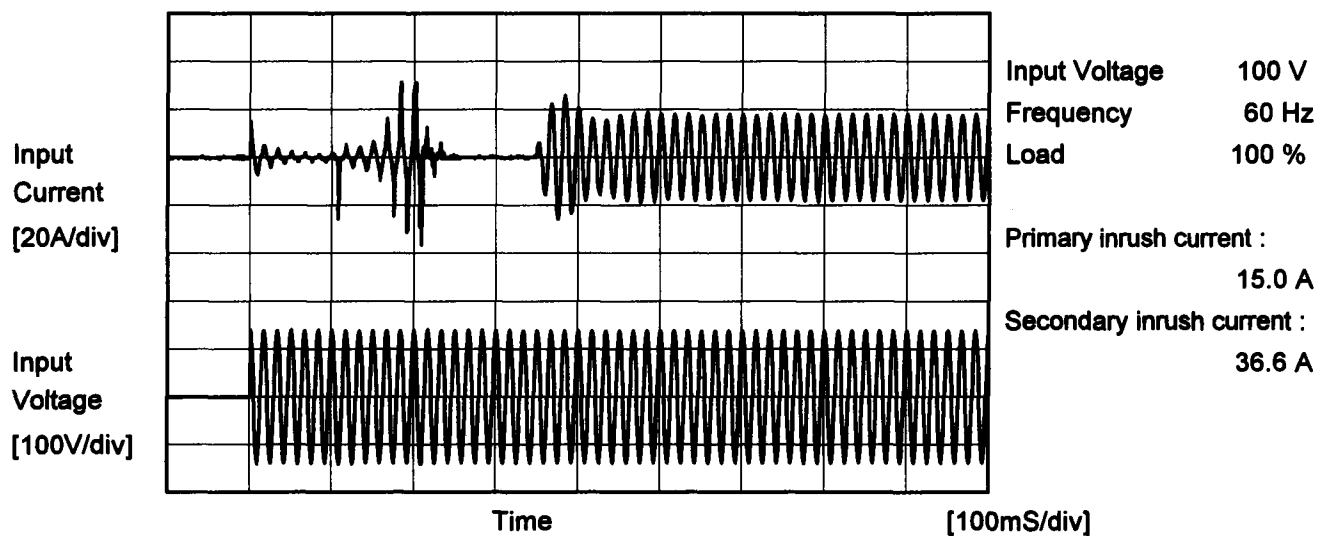
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Model		PBA1000F-7R5		Temperature		25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry		Figure A																																																				
Object																																																										
1.Graph				2.Values																																																						
<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> <p>Power Factor</p> <p>Load Current [A]</p>				<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>0.767</td><td>0.413</td><td>0.291</td></tr><tr><td>20.0</td><td>0.941</td><td>0.874</td><td>0.856</td></tr><tr><td>40.0</td><td>0.970</td><td>0.922</td><td>0.911</td></tr><tr><td>60.0</td><td>0.981</td><td>0.950</td><td>0.937</td></tr><tr><td>80.0</td><td>0.988</td><td>0.962</td><td>0.954</td></tr><tr><td>100.0</td><td>0.995</td><td>0.973</td><td>0.964</td></tr><tr><td>120.0</td><td>0.996</td><td>0.979</td><td>0.972</td></tr><tr><td>134.0</td><td>0.998</td><td>0.982</td><td>0.977</td></tr><tr><td>147.4</td><td>0.998</td><td>0.985</td><td>0.980</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	0.767	0.413	0.291	20.0	0.941	0.874	0.856	40.0	0.970	0.922	0.911	60.0	0.981	0.950	0.937	80.0	0.988	0.962	0.954	100.0	0.995	0.973	0.964	120.0	0.996	0.979	0.972	134.0	0.998	0.982	0.977	147.4	0.998	0.985	0.980	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																										



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Model	PBA1000F-7R5	Temperature Testing Circuitry	25°C Figure A
Item	Inrush Current		
Object	_____		



		Temperature 25°C Testing Circuitry Figure B
Model	PBA1000F-7R5	
Item	Leakage Current	
Object		

## 1.Results

[mA]

Standards		Input Volt.			Note
		100[V]	200[V]	240[V]	
DEN-AN	Both phases	0.20	0.40	0.42	Operation
	One of phase	0.35	0.73	0.78	stand by
IEC60950	Both phases	0.21	0.40	0.52	Operation
	One of phase	0.36	0.72	0.87	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	PBA1000F-7R5																																																																
Item	Line Regulation	Temperature	25°C																																																														
Object	+7.5V134A	Testing Circuitry	Figure A																																																														
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<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>77</td><td>7.580</td><td>7.573</td></tr><tr><td>85</td><td>7.580</td><td>7.574</td></tr><tr><td>100</td><td>7.580</td><td>7.575</td></tr><tr><td>120</td><td>7.580</td><td>7.576</td></tr><tr><td>200</td><td>7.580</td><td>7.576</td></tr><tr><td>230</td><td>7.580</td><td>7.576</td></tr><tr><td>264</td><td>7.580</td><td>7.576</td></tr><tr><td>280</td><td>7.580</td><td>7.576</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	77	7.580	7.573	85	7.580	7.574	100	7.580	7.575	120	7.580	7.576	200	7.580	7.576	230	7.580	7.576	264	7.580	7.576	280	7.580	7.576	--	-	-	<table><thead><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></thead><tbody><tr><td>77</td><td>7.580</td><td>7.573</td></tr><tr><td>85</td><td>7.580</td><td>7.574</td></tr><tr><td>100</td><td>7.580</td><td>7.575</td></tr><tr><td>120</td><td>7.580</td><td>7.576</td></tr><tr><td>200</td><td>7.580</td><td>7.576</td></tr><tr><td>230</td><td>7.580</td><td>7.576</td></tr><tr><td>264</td><td>7.580</td><td>7.576</td></tr><tr><td>280</td><td>7.580</td><td>7.576</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	77	7.580	7.573	85	7.580	7.574	100	7.580	7.575	120	7.580	7.576	200	7.580	7.576	230	7.580	7.576	264	7.580	7.576	280	7.580	7.576	--	-	-
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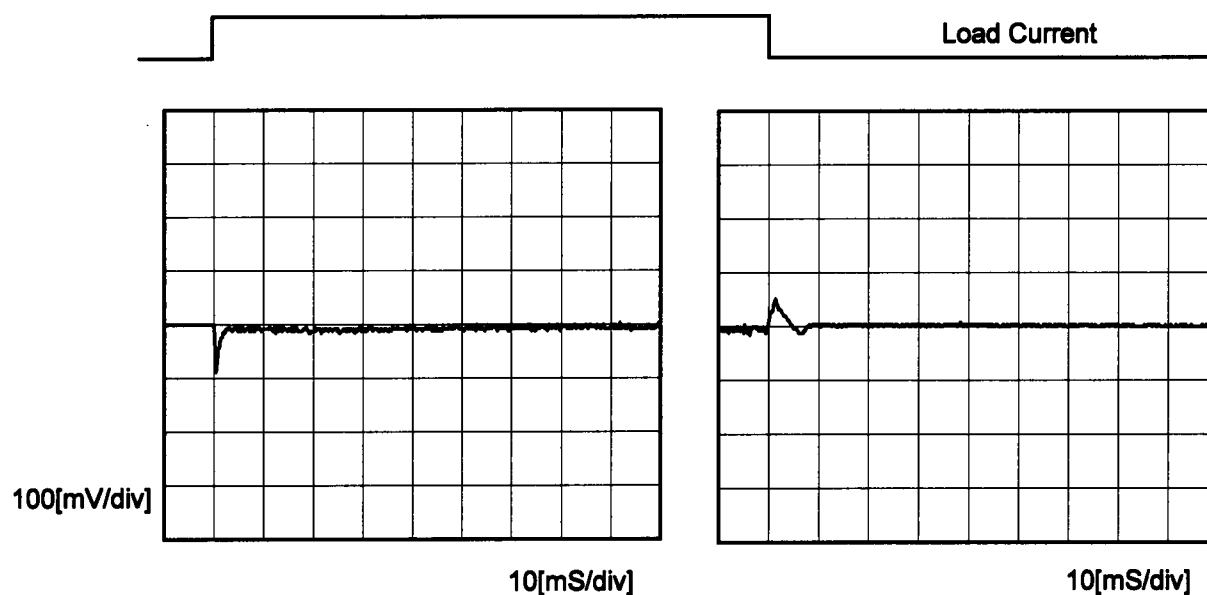
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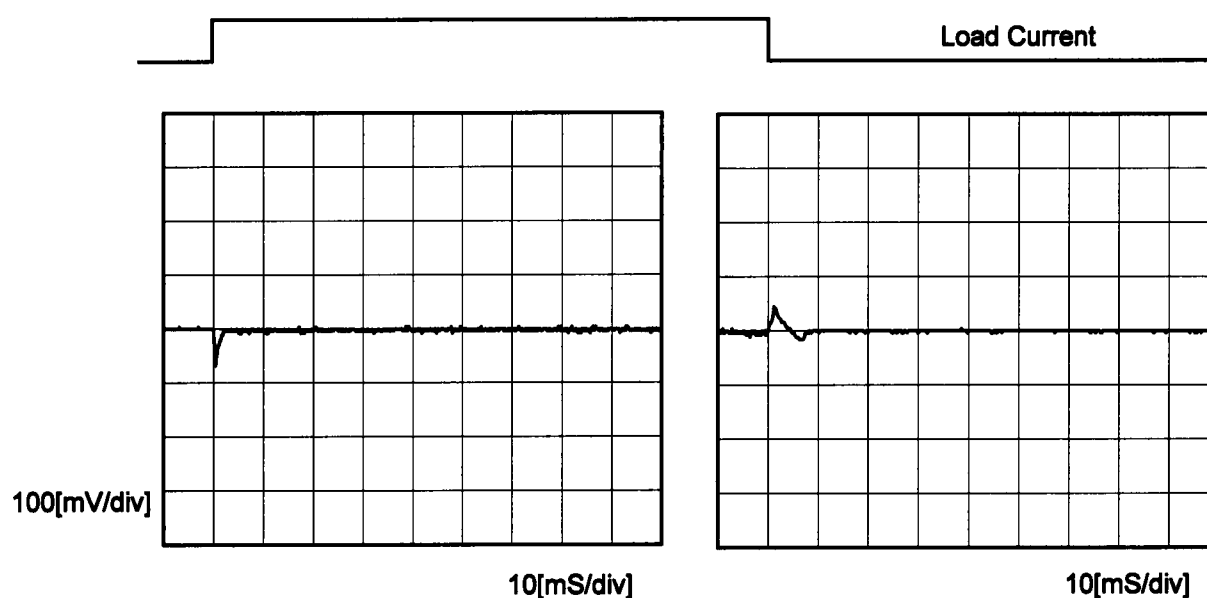
Model	PBA1000F-7R5	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+7.5V134A		

Input Volt. 100 V  
Cycle 1000 mS

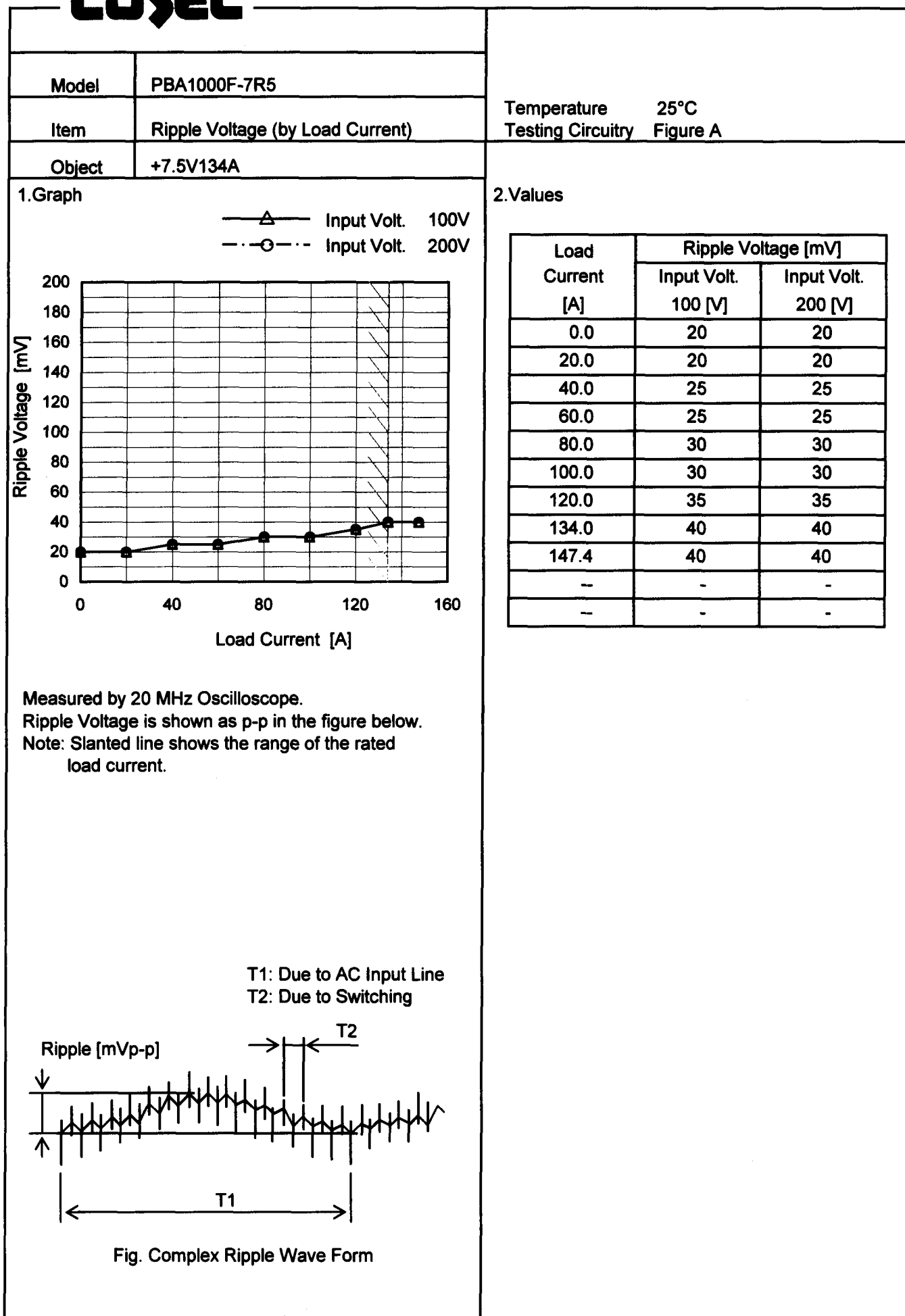
Min. Load ( 0 A ) – Load 100% ( 134 A )



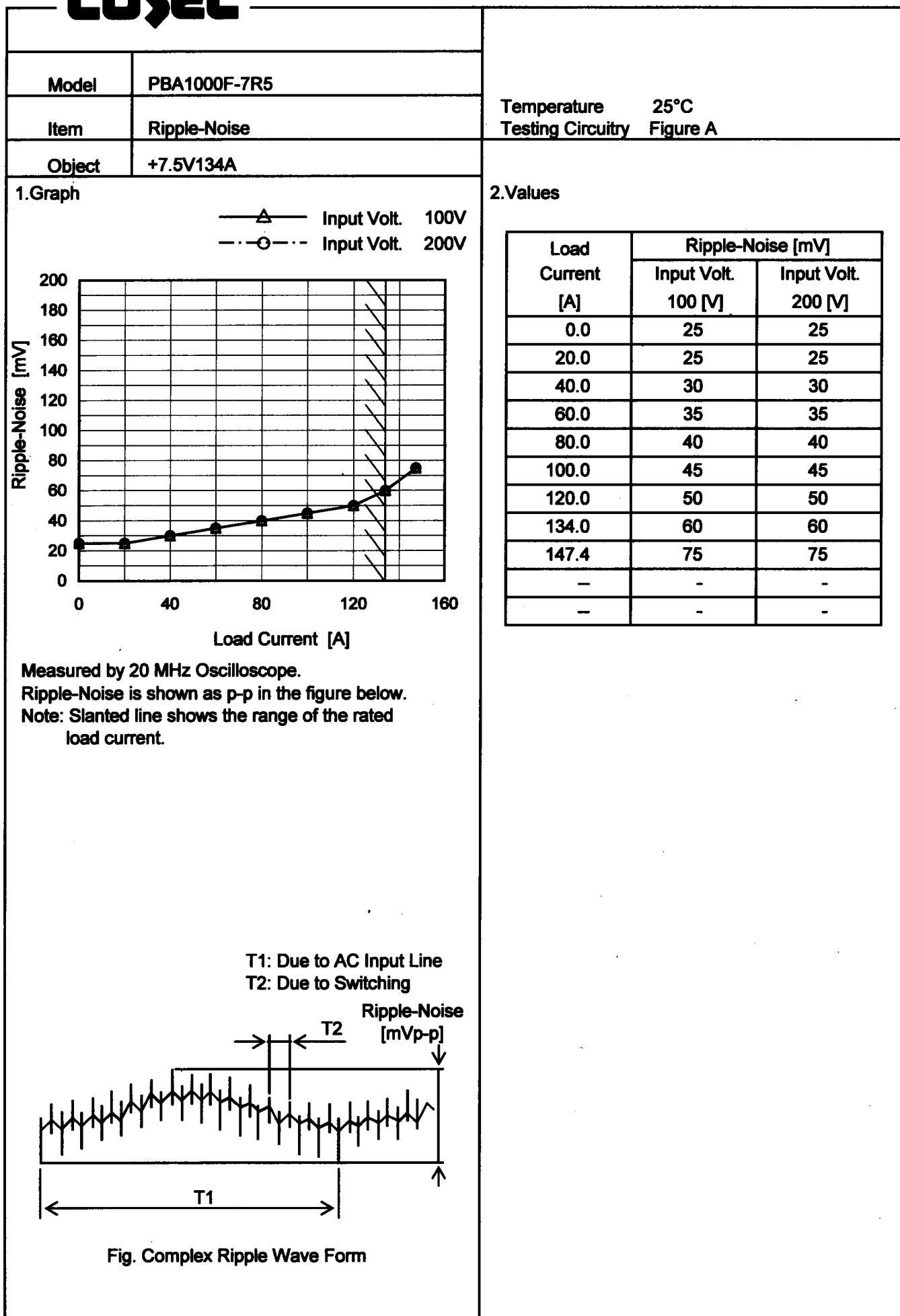
Min. Load ( 0 A ) – Load 50% ( 67 A )



\* The characteristic of AC200V is equal.

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Model

PBA1000F-7R5

Item

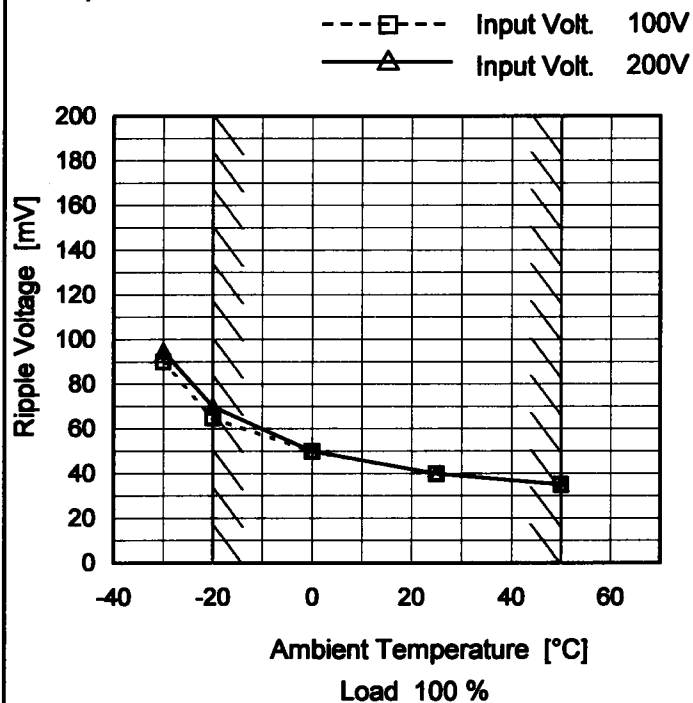
Ripple Voltage (by Ambient Temp.)

Object

+7.5V134A

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	90	95
-20	65	70
0	50	50
25	40	40
50	35	35
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—



# COSEL

Model		PBA1000F-7R5	
Item		Ambient Temperature Drift	
Object		+7.5V134A	

1.Graph

—△—

Input Volt.

100V

---□---

Input Volt.

200V

-·-○-·-

Input Volt.

230V

Output Voltage [V]

Ambient Temperature [°C]

Load 100%

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	7.588	7.590	7.590
-20	7.589	7.590	7.589
-10	7.588	7.589	7.589
0	7.588	7.590	7.590
10	7.588	7.590	7.590
25	7.590	7.591	7.592
30	7.587	7.590	7.589
40	7.584	7.585	7.585
50	7.577	7.577	7.576
60	7.564	7.563	7.559
--	-	-	-

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		Testing Circuitry Figure A
Model	PBA1000F-7R5	
Item	Output Voltage Accuracy	
Object	+7.5V134A	

### 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 - 134A

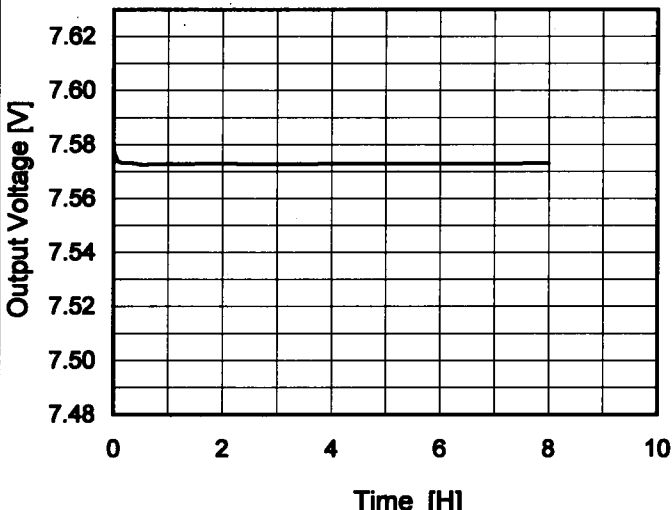
\* Output Voltage Accuracy =  $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

\* 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	25	264	0	7.598	±14	±0.2
Minimum Voltage	50	85	134	7.571		

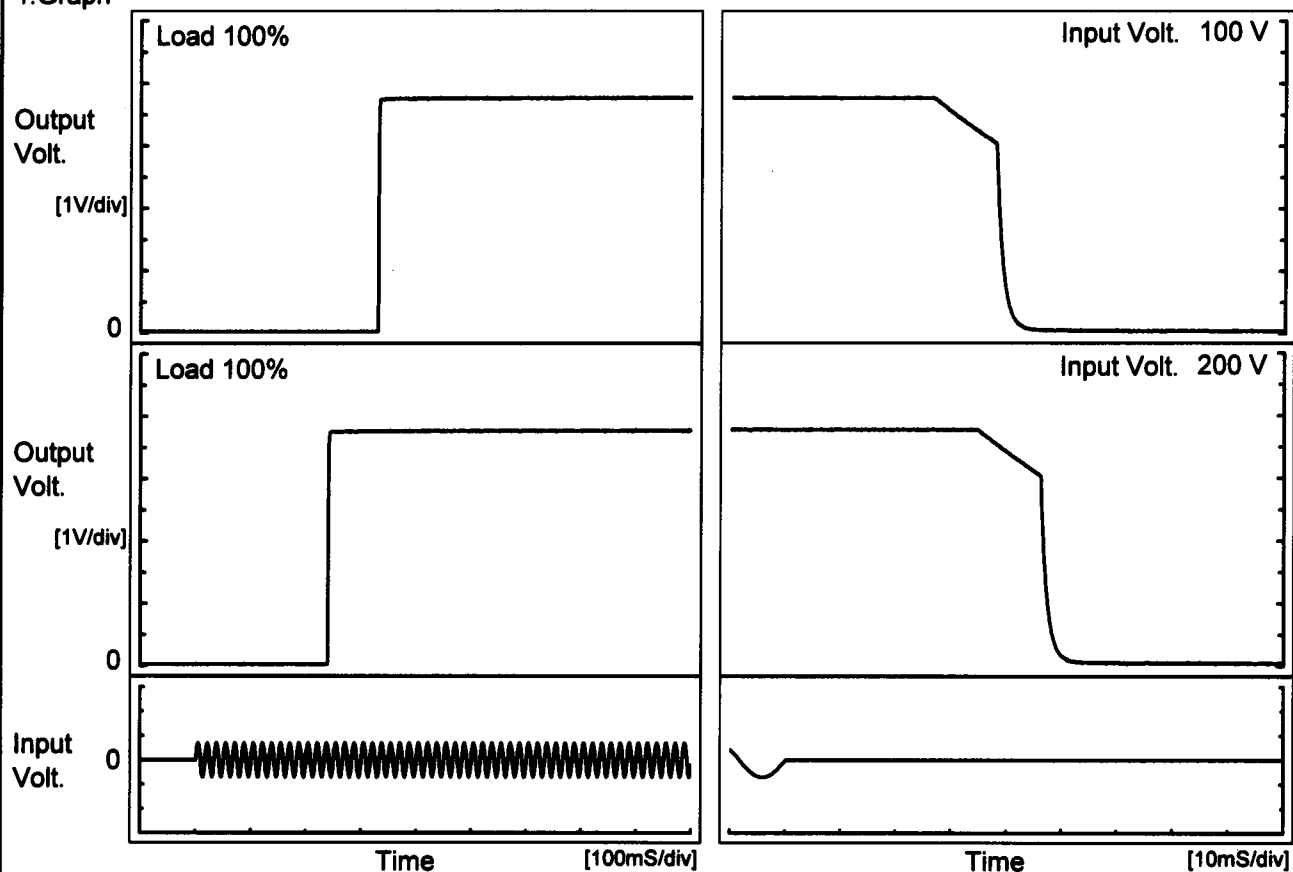
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Model	PBA1000F-7R5																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+7.5V134A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><thead><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr></thead><tbody><tr><td>0.0</td><td>7.579</td></tr><tr><td>0.5</td><td>7.573</td></tr><tr><td>1.0</td><td>7.573</td></tr><tr><td>2.0</td><td>7.573</td></tr><tr><td>3.0</td><td>7.573</td></tr><tr><td>4.0</td><td>7.573</td></tr><tr><td>5.0</td><td>7.573</td></tr><tr><td>6.0</td><td>7.573</td></tr><tr><td>7.0</td><td>7.573</td></tr><tr><td>8.0</td><td>7.573</td></tr></tbody></table>		Time since start [H]	Output Voltage [V]	0.0	7.579	0.5	7.573	1.0	7.573	2.0	7.573	3.0	7.573	4.0	7.573	5.0	7.573	6.0	7.573	7.0	7.573	8.0	7.573
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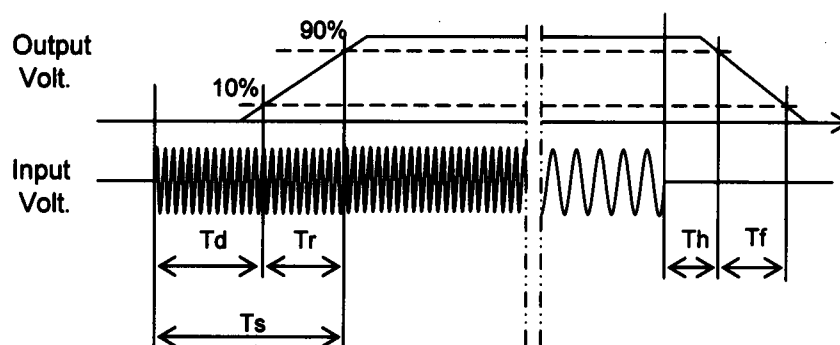
Model	PBA1000F-7R5	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+7.5V134A	

## 1. Graph



## 2. Values

[mS]					
Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	329.5	2.0	331.5	32.3	8.3
200 V	239.5	2.0	241.5	40.4	8.4



# COSEL

Model	PBA1000F-7R5																																																													
Item	Hold-Up Time	Temperature	25°C																																																											
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<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 slight increase in hold-up time with increasing input voltage. A slanted line indicates the range of the rated input voltage.</p> <table><caption>Data points estimated from the graph</caption><tr><th>Input Voltage [V]</th><th>Load 50% Hold-Up Time [mS]</th><th>Load 100% Hold-Up Time [mS]</th></tr><tr><td>77</td><td>65</td><td>21</td></tr><tr><td>85</td><td>68</td><td>24</td></tr><tr><td>100</td><td>72</td><td>27</td></tr><tr><td>120</td><td>76</td><td>30</td></tr><tr><td>200</td><td>82</td><td>36</td></tr><tr><td>230</td><td>83</td><td>36</td></tr><tr><td>264</td><td>84</td><td>37</td></tr><tr><td>280</td><td>85</td><td>38</td></tr></table>		Input Voltage [V]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]	77	65	21	85	68	24	100	72	27	120	76	30	200	82	36	230	83	36	264	84	37	280	85	38	<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>77</td><td>65</td><td>21</td></tr><tr><td>85</td><td>68</td><td>24</td></tr><tr><td>100</td><td>72</td><td>27</td></tr><tr><td>120</td><td>76</td><td>30</td></tr><tr><td>200</td><td>82</td><td>36</td></tr><tr><td>230</td><td>83</td><td>36</td></tr><tr><td>264</td><td>84</td><td>37</td></tr><tr><td>280</td><td>85</td><td>38</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	77	65	21	85	68	24	100	72	27	120	76	30	200	82	36	230	83	36	264	84	37	280	85	38	--	-	-
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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.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																																														

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BC-3538

# COSEL

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Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+7.5V134A	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>Instantaneous Compensation Time [mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>40</div><div>80</div><div>120</div><div>160</div></div><div><div>Load Current [A]</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>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20.0</td><td>220</td><td>279</td><td>280</td></tr><tr><td>40.0</td><td>70</td><td>136</td><td>144</td></tr><tr><td>60.0</td><td>36</td><td>81</td><td>88</td></tr><tr><td>80.0</td><td>36</td><td>53</td><td>61</td></tr><tr><td>100.0</td><td>36</td><td>38</td><td>40</td></tr><tr><td>120.0</td><td>33</td><td>37</td><td>38</td></tr><tr><td>134.0</td><td>28</td><td>36</td><td>37</td></tr><tr><td>147.4</td><td>22</td><td>31</td><td>32</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]	0.0	-	-	-	20.0	220	279	280	40.0	70	136	144	60.0	36	81	88	80.0	36	53	61	100.0	36	38	40	120.0	33	37	38	134.0	28	36	37	147.4	22	31	32	--	-	-	-	--	-	-	-
Load Current [A]	Time [mS]																																																					
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<div>Note: Slanted line shows the range of the rated load current.</div>																																																						

# COSEL

Model	PBA1000F-7R5																																								
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry    Figure A																																							
Object	+7.5V134A																																								
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> <div><div>Input Voltage [V]</div><div>Ambient Temperature [°C]</div></div>		<table><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><tr><td>-30</td><td>69</td><td>69</td></tr><tr><td>-20</td><td>69</td><td>69</td></tr><tr><td>-10</td><td>69</td><td>69</td></tr><tr><td>0</td><td>69</td><td>69</td></tr><tr><td>10</td><td>69</td><td>69</td></tr><tr><td>25</td><td>69</td><td>69</td></tr><tr><td>30</td><td>69</td><td>69</td></tr><tr><td>40</td><td>69</td><td>69</td></tr><tr><td>50</td><td>69</td><td>68</td></tr><tr><td>60</td><td>69</td><td>69</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-30	69	69	-20	69	69	-10	69	69	0	69	69	10	69	69	25	69	69	30	69	69	40	69	69	50	69	68	60	69	69	--	-	-
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Note: Slanted line shows the range of the rated ambient temperature.																																									

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BC-3538

**COSEL**

COSEL																																															
Model	PBA1000F-7R5																																														
Item	Overcurrent Protection	Temperature	25°C																																												
Object	+7.5V134A	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>		<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>7.500</td><td>166.47</td><td>166.46</td></tr><tr><td>7.125</td><td>166.70</td><td>166.75</td></tr><tr><td>6.750</td><td>167.12</td><td>166.77</td></tr><tr><td>6.000</td><td>167.32</td><td>167.33</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><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]	7.500	166.47	166.46	7.125	166.70	166.75	6.750	167.12	166.77	6.000	167.32	167.33	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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# COSEL

Model

PBA1000F-7R5

Item

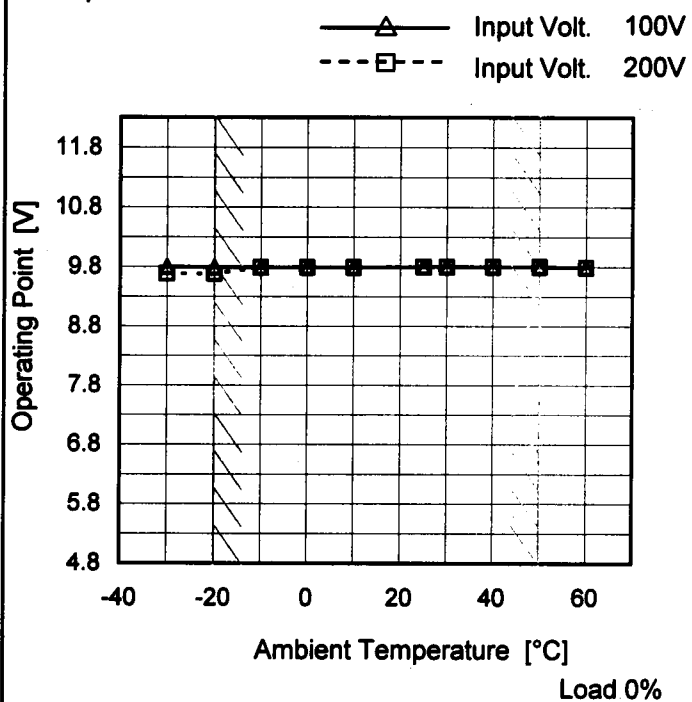
Overvoltage Protection

Object

+7.5V134A

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	9.75	9.63
-20	9.74	9.63
-10	9.74	9.74
0	9.74	9.74
10	9.74	9.74
25	9.75	9.75
30	9.75	9.75
40	9.75	9.75
50	9.75	9.75
60	9.74	9.74
--	-	-

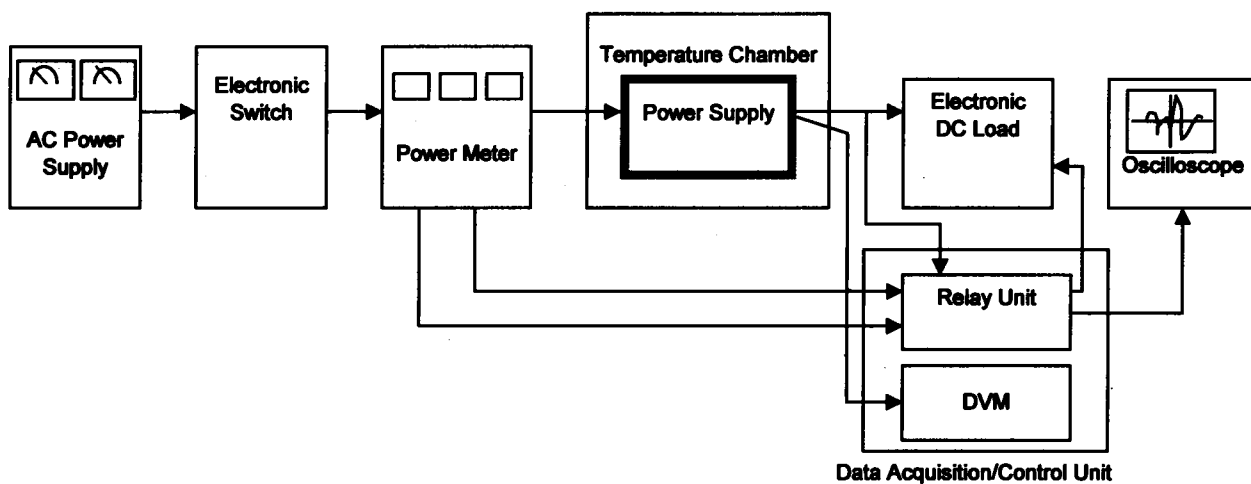


Figure A

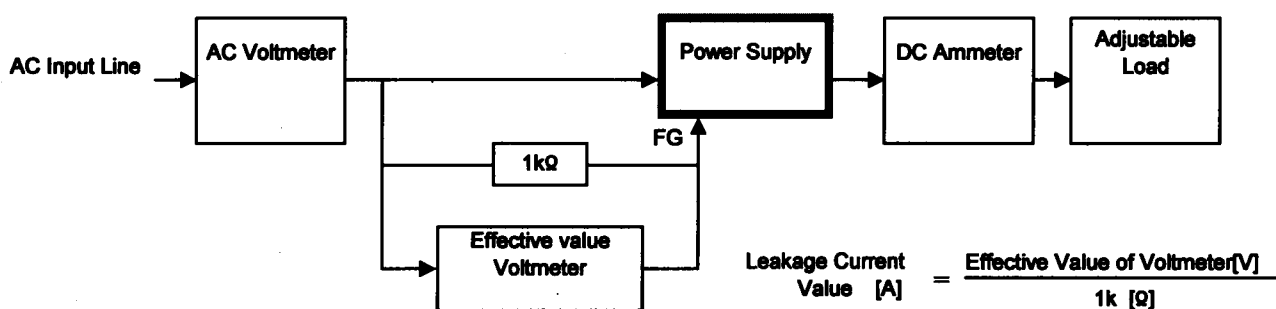


Figure B ( DEN-AN )

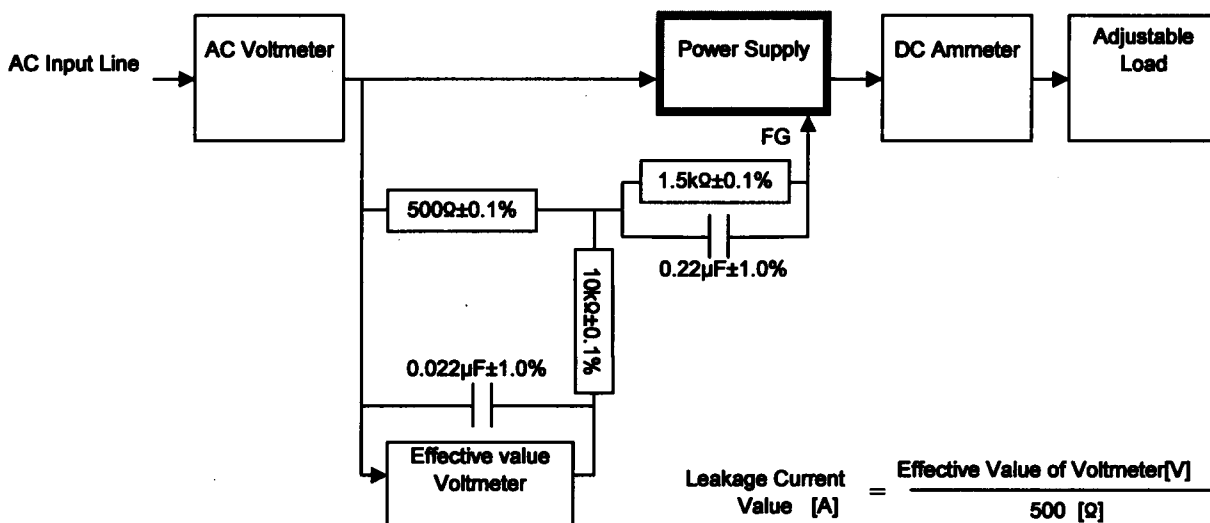


Figure B ( IEC60950 )