



TEST DATA OF PBA1500T-5

Regulated DC Power Supply
Apr. 18. 2007

Approved by : Yoshiaki Shimizu Yoshiaki Shimizu Design Manager

Prepared by : Yousuke Murata Yousuke Murata Design Engineer

COSEL CO.,LTD.



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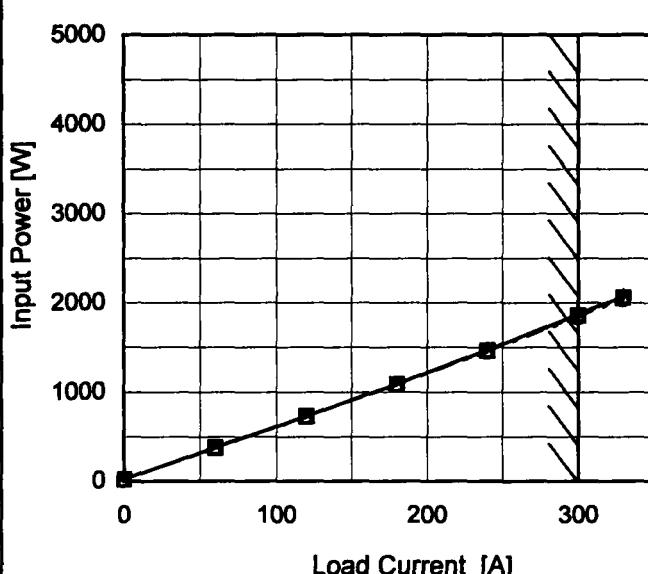
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Model	PBA1500T-5																																																					
Item	Input Current (by Load Current)	Input	AC 3-phase																																																			
Object		Temperature	25°C																																																			
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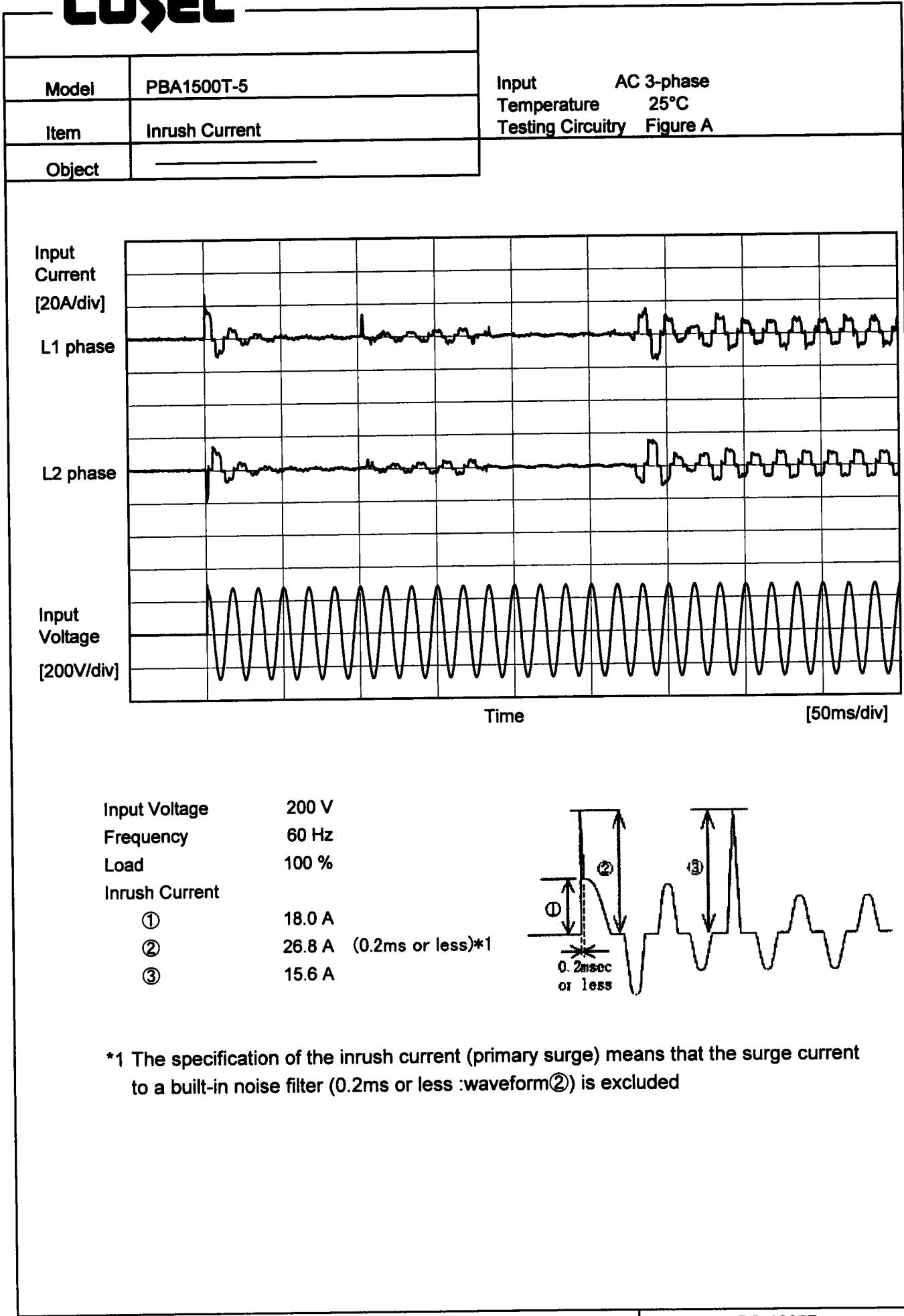
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Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C ^o Figure B
Item	Leakage Current		
Object	_____		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A)DEN-AN	--	--	--
(B)IEC60950	--	--	--

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 240 [V]	Input Volt. 264 [V]
(B)IEC60950	0.77	1.12	1.25

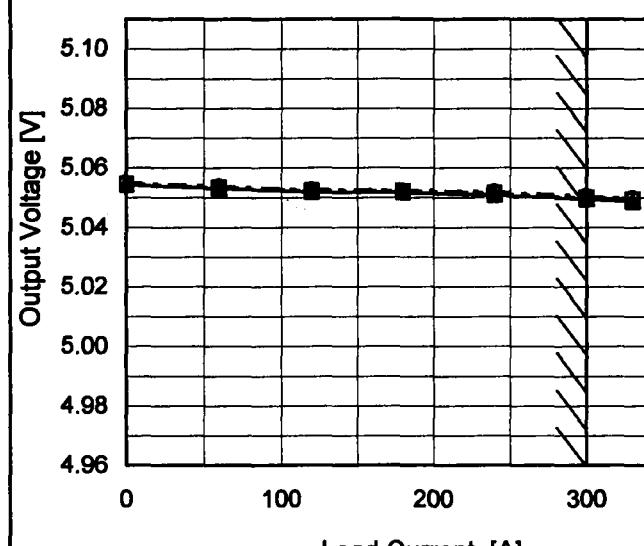
2. Condition

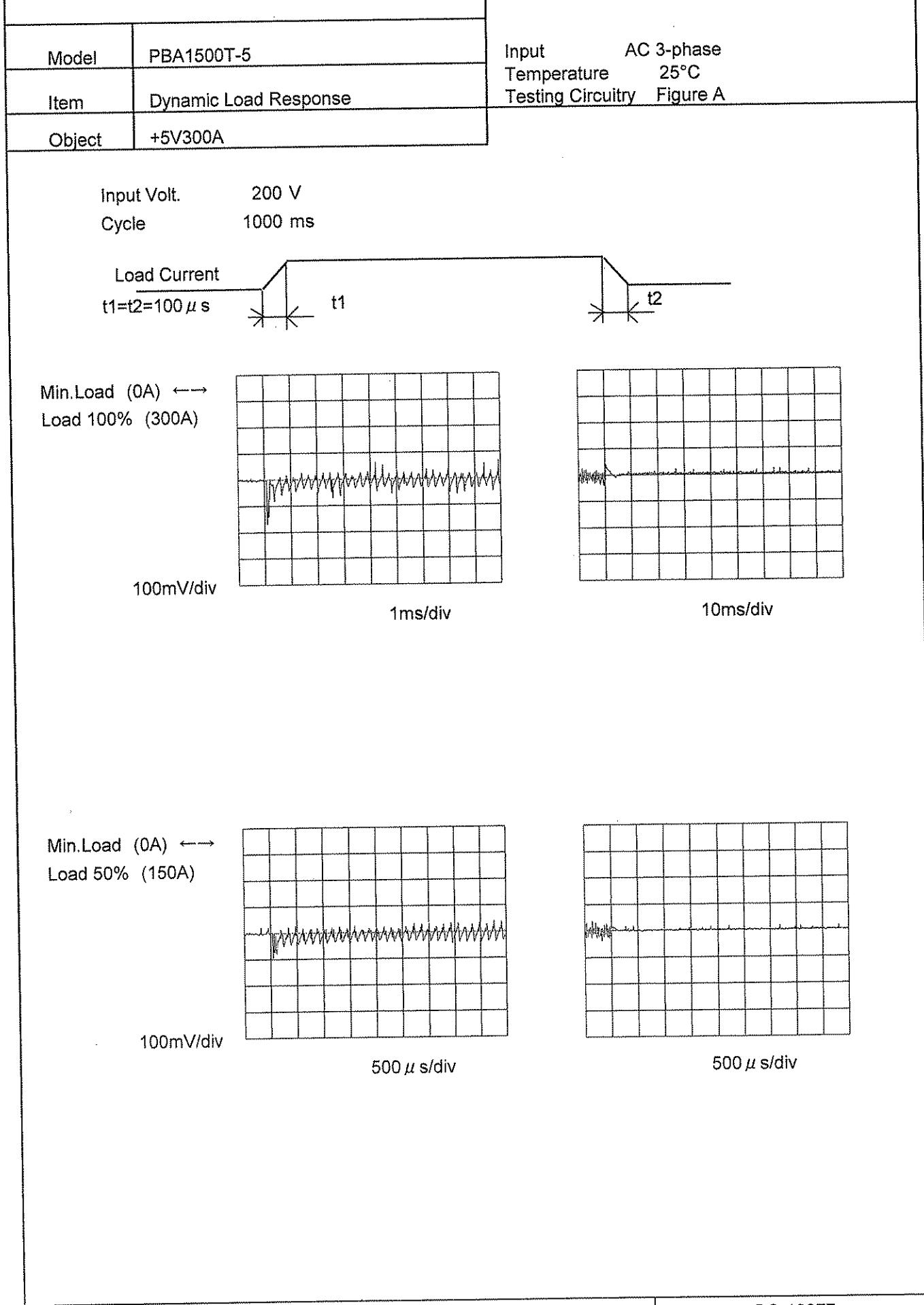
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



<p>Model</p> <p>Item</p> <p>Object</p>	PBA1500T-5	<p>Input AC 3-phase Temperature 25°C Testing Circuitry Figure A</p>																																
	Line Regulation																																	
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<p>Note: Slanted line shows the range of the rated input voltage.</p>																																		

COSEL

Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C Figure A																																																					
Item	Load Regulation																																																							
Object	+5V300A																																																							
1.Graph	<p>—△— Input Volt. 170 V - -□--- Input Volt. 200 V - -○--- Input Volt. 264 V</p>  <p>Output Voltage [V]</p> <p>Load Current [A]</p>	2.Values																																																						
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Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																			
Item	Ripple Voltage (by Load Current)																																					
Object	+5V300A																																					
1. Graph			2. Values																																			
<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 200 mV, and the X-axis ranges from 0 to 300 A. Two curves are plotted for Input Volt. 200 V (solid line with solid circles) and Input Volt. 240 V (dashed line with open circles). Both curves show a slight increase in ripple voltage as load current increases. A slanted line indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Output Voltage [mV] (Input Volt. 200[V])</th> <th>Ripple Output Voltage [mV] (Input Volt. 240[V])</th> </tr> </thead> <tbody> <tr><td>0</td><td>10</td><td>10</td></tr> <tr><td>60</td><td>10</td><td>10</td></tr> <tr><td>120</td><td>20</td><td>20</td></tr> <tr><td>180</td><td>20</td><td>20</td></tr> <tr><td>240</td><td>30</td><td>30</td></tr> <tr><td>300</td><td>30</td><td>30</td></tr> <tr><td>330</td><td>35</td><td>35</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> </tbody> </table>	Load Current [A]	Ripple Output Voltage [mV] (Input Volt. 200[V])	Ripple Output Voltage [mV] (Input Volt. 240[V])	0	10	10	60	10	10	120	20	20	180	20	20	240	30	30	300	30	30	330	35	35	-	-	-	-	-	-	-	-	-	-	-	-		
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COSEL

Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C Figure A																																						
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Object	+5V300A																																								
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<p>Graph showing Ripple-Noise [mV] vs Load Current [A]. The Y-axis ranges from 0 to 200 mV, and the X-axis ranges from 0 to 300 A. Two curves are plotted: one for Input Volt. 200 V (solid line with open squares) and one for Input Volt. 240 V (dashed line with open circles). Both curves show an increase in Ripple-Noise with Load Current. A slanted line indicates the range of the rated load current.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple-Noise [mV] (200 V)</th> <th>Ripple-Noise [mV] (240 V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>20</td></tr> <tr><td>60</td><td>20</td><td>20</td></tr> <tr><td>120</td><td>30</td><td>30</td></tr> <tr><td>180</td><td>50</td><td>50</td></tr> <tr><td>240</td><td>60</td><td>60</td></tr> <tr><td>300</td><td>70</td><td>70</td></tr> </tbody> </table>				Load Current [A]	Ripple-Noise [mV] (200 V)	Ripple-Noise [mV] (240 V)	0	20	20	60	20	20	120	30	30	180	50	50	240	60	60	300	70	70																	
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<p>Fig. Complex Ripple Wave Form</p>																																									

COSEL

Model	PBA1500T-5																																							
Item	Ripple Voltage (by Ambient Temp.)	Input Testing Circuitry																																						
Object	+5V300A	AC 3-phase Figure A																																						
1. Graph																																								
<p>Legend: ---□--- Input Volt.200V —△— Input Volt.240V</p> <p>Ambient Temperature [°C]</p> <p>Ripple Voltage [mV]</p> <p>Load 100%</p>																																								
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Model	PBA1500T-5	Input Testing Circuitry AC 3-phase Figure A																																																					
Item	Ambient Temperature Drift																																																						
Object	+5V300A																																																						
1.Graph	<p style="text-align: center;"> —△— Input Volt. 170 V ---□--- Input Volt. 200 V ---○--- Input Volt. 264 V </p> <p style="text-align: center;">Output Voltage [V]</p> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Load 100%</p>	2.Values																																																					
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Note: Slanted line shows the range of the rated ambient temperature.



Model	PBA1500T-5	Input Testing Circuitry AC 3-phase Figure A
Item	Output Voltage Accuracy	
Object	+5V300A	

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 : 170 – 264V

Load Current : 0 – 300A

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

$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

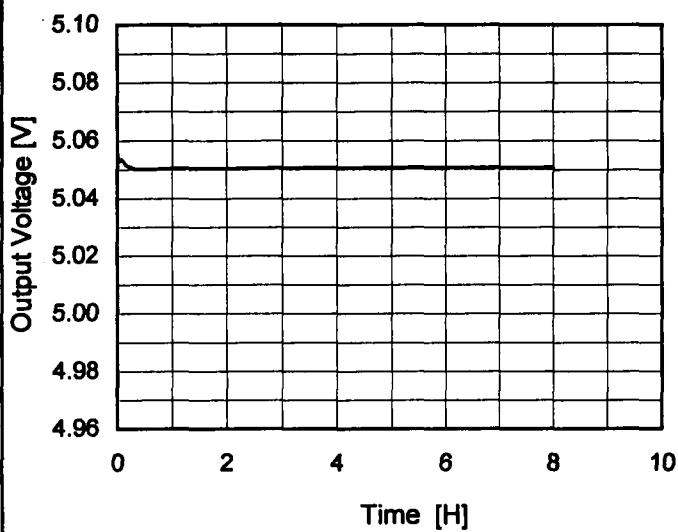
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	200	0	5.061	±9	±0.2
Minimum Voltage	50	200	300	5.043		

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Model	PBA1500T-5
Item	Time Lapse Drift
Object	+5V300A

Input AC 3-phase
Temperature 25°C
Testing Circuitry Figure A

1. Graph



Input Volt. 200V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	5.056
0.5	5.050
1.0	5.050
2.0	5.050
3.0	5.051
4.0	5.051
5.0	5.051
6.0	5.051
7.0	5.051
8.0	5.051

COSEL

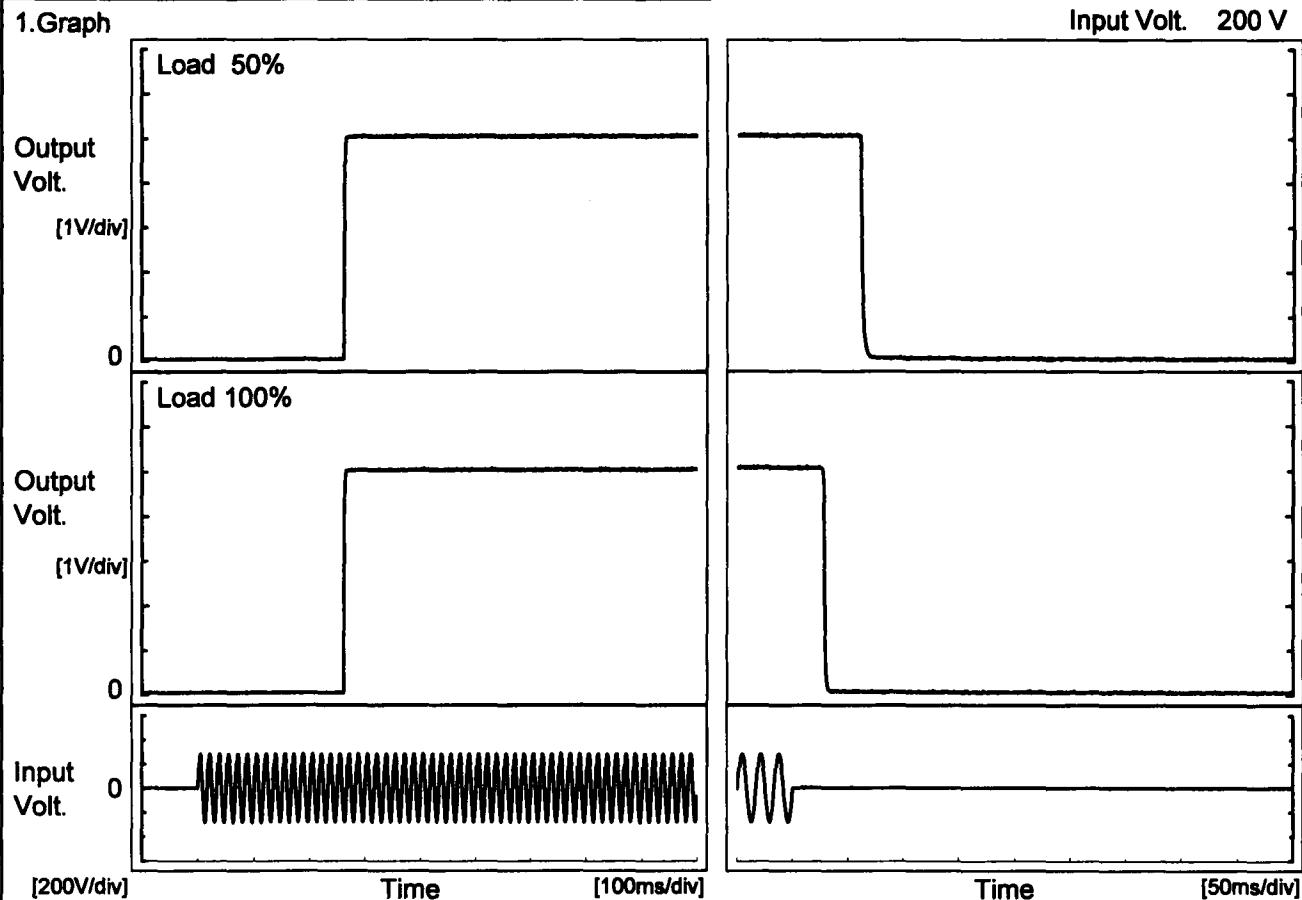
Model PBA1500T-5

Item Rise and Fall Time

Object +5V300A

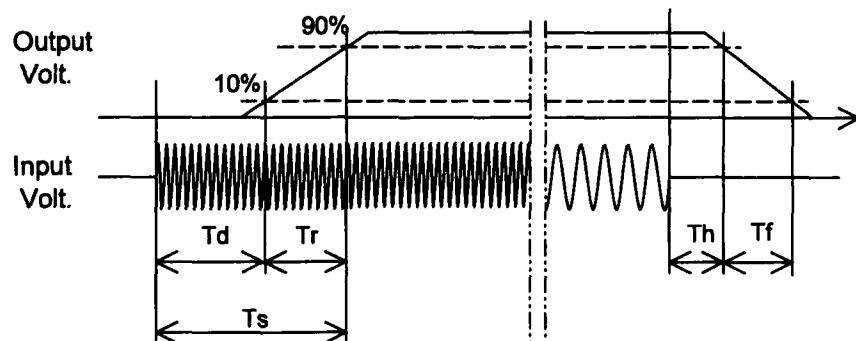
Input AC 3-phase
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		262.0	2.0	264.0	60.8	4.0	
100 %		261.5	2.0	263.5	28.3	2.0	



COSEL

Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C Figure A																																
Item	Hold-Up Time																																		
Object	+5V300A																																		
1. Graph																																			
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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>																																			

COSEL

Model	PBA1500T-5	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																			
Item	Instantaneous Interruption Compensation																																																					
Object	+5V300A																																																					
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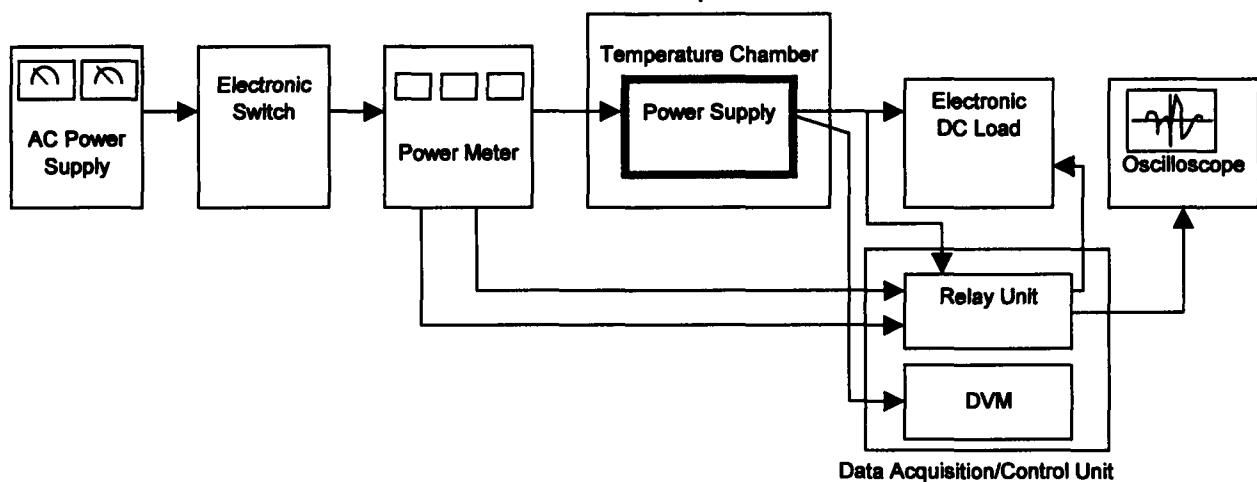


Figure A

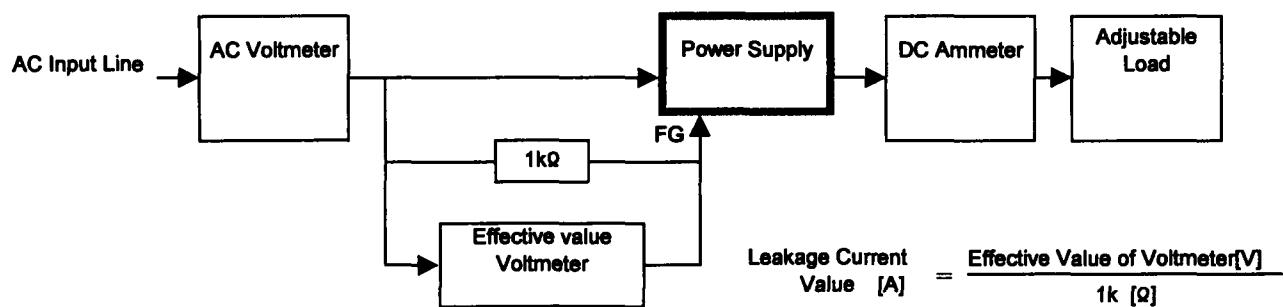


Figure B (DEN-AN)

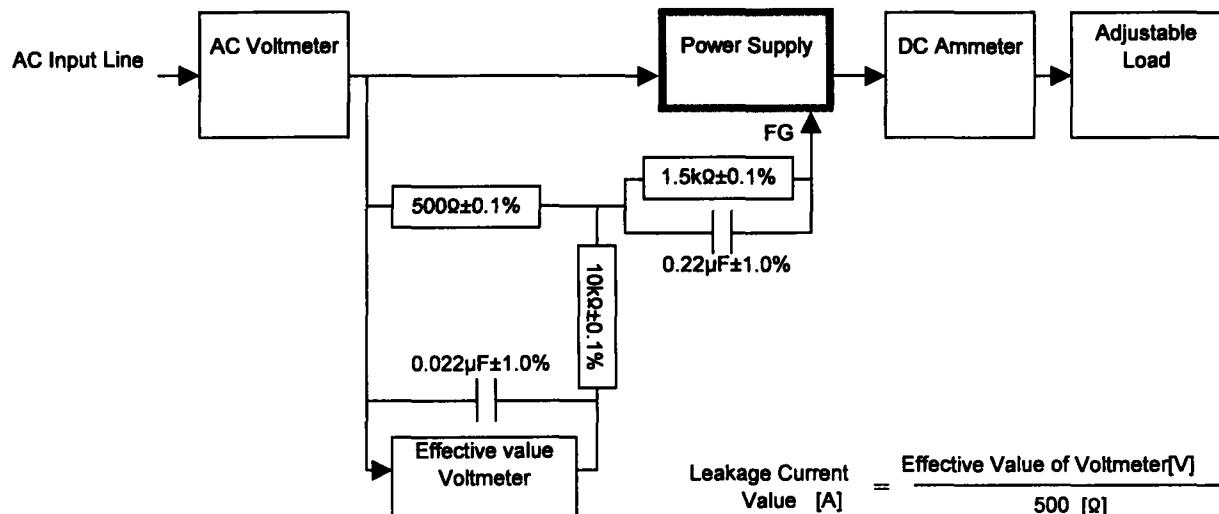


Figure B (IEC60950)