



TEST DATA OF PBA1500T-12

Regulated DC Power Supply
Mar. 27. 2007

Approved by : Yoshiaki Shimizu Yoshiaki Shimizu Design Manager

Prepared by : Yousuke Murata Yousuke Murata Design Engineer

COSEL CO.,LTD.



CONTENTS

1. Input Current (by Load Current)	1
2. Input Power (by Load Current)	2
3. Efficiency (by Input Voltage)	3
4. Efficiency (by Load Current)	4
5. Power Factor (by Input Voltage)	5
6. Power Factor (by Load Current)	6
7. Inrush Current	7
8. Leakage Current	8
9. Line Regulation	9
10. Load Regulation	10
11. Dynamic Load Response	11
12. Ripple Voltage (by Load Current)	12
13. Ripple-Noise	13
14. Ripple Voltage (by Ambient Temperature)	14
15. Ambient Temperature Drift	15
16. Output Voltage Accuracy	16
17. Time Lapse Drift	17
18. Rise and Fall Time	18
19. Hold-Up Time	19
20. Instantaneous Interruption Compensation	20
21. Minimum Input Voltage for Regulated Output Voltage	21
22. Overcurrent Protection	22
23. Overvoltage Protection	23
24. Figure of Testing Circuitry	24

(Final Page 24)

COSEL

Model	PBA1500T-12																																																						
Item	Input Current (by Load Current)	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																				
Object	—	—	—																																																				
1.Graph	<p>—△— Input Volt. 170 V - - □ - - Input Volt. 200 V - - ○ - - Input Volt. 264 V</p> <table border="1"> <caption>Data points estimated from Graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Input Current [A] (170V)</th> <th>Input Current [A] (200V)</th> <th>Input Current [A] (264V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.240</td><td>0.267</td><td>0.333</td></tr> <tr><td>20.0</td><td>1.127</td><td>0.980</td><td>0.813</td></tr> <tr><td>40.0</td><td>2.097</td><td>1.793</td><td>1.393</td></tr> <tr><td>60.0</td><td>3.103</td><td>2.635</td><td>2.010</td></tr> <tr><td>80.0</td><td>4.093</td><td>3.470</td><td>2.639</td></tr> <tr><td>100.0</td><td>5.109</td><td>4.325</td><td>3.277</td></tr> <tr><td>120.0</td><td>6.156</td><td>5.201</td><td>3.931</td></tr> <tr><td>125.0</td><td>6.418</td><td>5.420</td><td>4.095</td></tr> <tr><td>137.5</td><td>7.059</td><td>5.964</td><td>4.503</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load Current [A]	Input Current [A] (170V)	Input Current [A] (200V)	Input Current [A] (264V)	0	0.240	0.267	0.333	20.0	1.127	0.980	0.813	40.0	2.097	1.793	1.393	60.0	3.103	2.635	2.010	80.0	4.093	3.470	2.639	100.0	5.109	4.325	3.277	120.0	6.156	5.201	3.931	125.0	6.418	5.420	4.095	137.5	7.059	5.964	4.503	—	—	—	—	—	—	—	—						
Load Current [A]	Input Current [A] (170V)	Input Current [A] (200V)	Input Current [A] (264V)																																																				
0	0.240	0.267	0.333																																																				
20.0	1.127	0.980	0.813																																																				
40.0	2.097	1.793	1.393																																																				
60.0	3.103	2.635	2.010																																																				
80.0	4.093	3.470	2.639																																																				
100.0	5.109	4.325	3.277																																																				
120.0	6.156	5.201	3.931																																																				
125.0	6.418	5.420	4.095																																																				
137.5	7.059	5.964	4.503																																																				
—	—	—	—																																																				
—	—	—	—																																																				
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.240</td><td>0.267</td><td>0.333</td></tr> <tr><td>20.0</td><td>1.127</td><td>0.980</td><td>0.813</td></tr> <tr><td>40.0</td><td>2.097</td><td>1.793</td><td>1.393</td></tr> <tr><td>60.0</td><td>3.103</td><td>2.635</td><td>2.010</td></tr> <tr><td>80.0</td><td>4.093</td><td>3.470</td><td>2.639</td></tr> <tr><td>100.0</td><td>5.109</td><td>4.325</td><td>3.277</td></tr> <tr><td>120.0</td><td>6.156</td><td>5.201</td><td>3.931</td></tr> <tr><td>125.0</td><td>6.418</td><td>5.420</td><td>4.095</td></tr> <tr><td>137.5</td><td>7.059</td><td>5.964</td><td>4.503</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load Current [A]	Input Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	0.240	0.267	0.333	20.0	1.127	0.980	0.813	40.0	2.097	1.793	1.393	60.0	3.103	2.635	2.010	80.0	4.093	3.470	2.639	100.0	5.109	4.325	3.277	120.0	6.156	5.201	3.931	125.0	6.418	5.420	4.095	137.5	7.059	5.964	4.503	—	—	—	—	—	—	—	—			
Load Current [A]	Input Current [A]																																																						
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																				
0	0.240	0.267	0.333																																																				
20.0	1.127	0.980	0.813																																																				
40.0	2.097	1.793	1.393																																																				
60.0	3.103	2.635	2.010																																																				
80.0	4.093	3.470	2.639																																																				
100.0	5.109	4.325	3.277																																																				
120.0	6.156	5.201	3.931																																																				
125.0	6.418	5.420	4.095																																																				
137.5	7.059	5.964	4.503																																																				
—	—	—	—																																																				
—	—	—	—																																																				
Note:	Slanted line shows the range of the rated load current.																																																						

COSEL

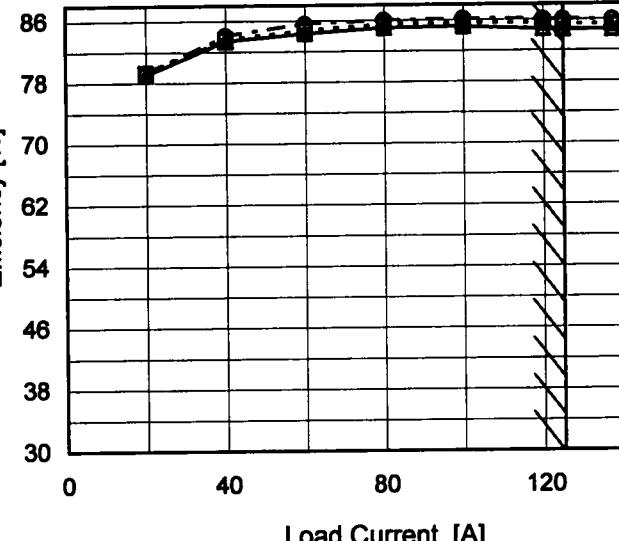
Model	PBA1500T-12																																																					
Item	Input Power (by Load Current)	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																			
Object	<hr/>																																																					
1.Graph	<p>—△— Input Volt. 170 V</p> <p>- -□--- Input Volt. 200 V</p> <p>- -○--- Input Volt. 264 V</p> <table border="1"> <caption>Data points estimated from Graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Input Power [W] (170V)</th> <th>Input Power [W] (200V)</th> <th>Input Power [W] (264V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>30</td><td>~300</td><td>~300</td><td>~300</td></tr> <tr><td>60</td><td>~600</td><td>~600</td><td>~600</td></tr> <tr><td>90</td><td>~1200</td><td>~1200</td><td>~1200</td></tr> <tr><td>120</td><td>~1800</td><td>~1800</td><td>~1800</td></tr> <tr><td>137.5</td><td>~2000</td><td>~2000</td><td>~2000</td></tr> </tbody> </table>			Load Current [A]	Input Power [W] (170V)	Input Power [W] (200V)	Input Power [W] (264V)	0	0	0	0	30	~300	~300	~300	60	~600	~600	~600	90	~1200	~1200	~1200	120	~1800	~1800	~1800	137.5	~2000	~2000	~2000																							
Load Current [A]	Input Power [W] (170V)	Input Power [W] (200V)	Input Power [W] (264V)																																																			
0	0	0	0																																																			
30	~300	~300	~300																																																			
60	~600	~600	~600																																																			
90	~1200	~1200	~1200																																																			
120	~1800	~1800	~1800																																																			
137.5	~2000	~2000	~2000																																																			
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>170[V]</th> <th>200[V]</th> <th>264[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>19</td><td>16</td></tr> <tr><td>20.0</td><td>308</td><td>307</td><td>307</td></tr> <tr><td>40.0</td><td>585</td><td>584</td><td>580</td></tr> <tr><td>60.0</td><td>870</td><td>866</td><td>857</td></tr> <tr><td>80.0</td><td>1150</td><td>1144</td><td>1137</td></tr> <tr><td>100.0</td><td>1435</td><td>1427</td><td>1418</td></tr> <tr><td>120.0</td><td>1730</td><td>1717</td><td>1706</td></tr> <tr><td>125.0</td><td>1804</td><td>1790</td><td>1777</td></tr> <tr><td>137.5</td><td>1984</td><td>1971</td><td>1955</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>			Load Current [A]	Input Power [W]			170[V]	200[V]	264[V]	0	20	19	16	20.0	308	307	307	40.0	585	584	580	60.0	870	866	857	80.0	1150	1144	1137	100.0	1435	1427	1418	120.0	1730	1717	1706	125.0	1804	1790	1777	137.5	1984	1971	1955	--	--	--	--	--	--	--	--
Load Current [A]	Input Power [W]																																																					
	170[V]	200[V]	264[V]																																																			
0	20	19	16																																																			
20.0	308	307	307																																																			
40.0	585	584	580																																																			
60.0	870	866	857																																																			
80.0	1150	1144	1137																																																			
100.0	1435	1427	1418																																																			
120.0	1730	1717	1706																																																			
125.0	1804	1790	1777																																																			
137.5	1984	1971	1955																																																			
--	--	--	--																																																			
--	--	--	--																																																			
Note:	Slanted line shows the range of the rated load current.																																																					

COSEL

Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C Figure A																																
Item	Efficiency (by Input Voltage)																																		
Object	—																																		
1. Graph		2. Values																																	
<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: ---□--- Load 50% —△— Load 100%</p>		<table border="1"> <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>150</td> <td>84.4</td> <td>84.2</td> </tr> <tr> <td>160</td> <td>84.5</td> <td>84.4</td> </tr> <tr> <td>170</td> <td>84.5</td> <td>84.7</td> </tr> <tr> <td>180</td> <td>84.6</td> <td>84.9</td> </tr> <tr> <td>200</td> <td>84.9</td> <td>85.3</td> </tr> <tr> <td>220</td> <td>85.3</td> <td>85.7</td> </tr> <tr> <td>240</td> <td>85.4</td> <td>85.8</td> </tr> <tr> <td>264</td> <td>85.6</td> <td>85.9</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	150	84.4	84.2	160	84.5	84.4	170	84.5	84.7	180	84.6	84.9	200	84.9	85.3	220	85.3	85.7	240	85.4	85.8	264	85.6	85.9	--	--	--
Input Voltage [V]	Efficiency [%]																																		
	Load 50%	Load 100%																																	
150	84.4	84.2																																	
160	84.5	84.4																																	
170	84.5	84.7																																	
180	84.6	84.9																																	
200	84.9	85.3																																	
220	85.3	85.7																																	
240	85.4	85.8																																	
264	85.6	85.9																																	
--	--	--																																	

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

COSEL

Model	PBA1500T-12																																																					
Item	Efficiency (by Load Current)	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																			
Object	_____																																																					
1.Graph	_____																																																					
	—△— Input Volt. 170 V - - -□- - Input Volt. 200 V - - ○- - Input Volt. 264 V																																																					
	 <p>The graph plots Efficiency [%] on the Y-axis (30 to 86) against Load Current [A] on the X-axis (0 to 120). Three data series are shown for input voltages of 170V, 200V, and 264V. All series show a similar trend of increasing efficiency as load current increases. A slanted line is drawn across the graph, starting from approximately (20, 78) and ending at (120, 86), indicating the range of the rated load current.</p>																																																					
	2.Values																																																					
	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>20.0</td> <td>79.0</td> <td>79.3</td> <td>79.2</td> </tr> <tr> <td>40.0</td> <td>83.4</td> <td>83.6</td> <td>84.1</td> </tr> <tr> <td>60.0</td> <td>84.3</td> <td>84.7</td> <td>85.6</td> </tr> <tr> <td>80.0</td> <td>85.0</td> <td>85.4</td> <td>86.0</td> </tr> <tr> <td>100.0</td> <td>85.1</td> <td>85.6</td> <td>86.1</td> </tr> <tr> <td>120.0</td> <td>84.8</td> <td>85.5</td> <td>86.0</td> </tr> <tr> <td>125.0</td> <td>84.7</td> <td>85.4</td> <td>86.0</td> </tr> <tr> <td>137.5</td> <td>84.7</td> <td>85.3</td> <td>85.9</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>			Load Current [A]	Efficiency [%]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	--	--	--	20.0	79.0	79.3	79.2	40.0	83.4	83.6	84.1	60.0	84.3	84.7	85.6	80.0	85.0	85.4	86.0	100.0	85.1	85.6	86.1	120.0	84.8	85.5	86.0	125.0	84.7	85.4	86.0	137.5	84.7	85.3	85.9	--	--	--	--	--	--	--	--
Load Current [A]	Efficiency [%]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
0	--	--	--																																																			
20.0	79.0	79.3	79.2																																																			
40.0	83.4	83.6	84.1																																																			
60.0	84.3	84.7	85.6																																																			
80.0	85.0	85.4	86.0																																																			
100.0	85.1	85.6	86.1																																																			
120.0	84.8	85.5	86.0																																																			
125.0	84.7	85.4	86.0																																																			
137.5	84.7	85.3	85.9																																																			
--	--	--	--																																																			
--	--	--	--																																																			

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

COSEL

Model	PBA1500T-12																																	
Item	Power Factor (by Input Voltage)	Testing Circuitry Figure A																																
Object	—	Input AC 3-phase Temperature 25°C																																
1. Graph																																		
<p>The graph plots Power Factor (Y-axis, 0.4 to 1.0) against Input Voltage [V] (X-axis, 140 to 300). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a slight decrease in power factor as input voltage increases above 220V. A slanted line on the graph indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Load 50% Power Factor</th> <th>Load 100% Power Factor</th> </tr> </thead> <tbody> <tr><td>150</td><td>0.957</td><td>0.959</td></tr> <tr><td>160</td><td>0.955</td><td>0.957</td></tr> <tr><td>170</td><td>0.954</td><td>0.957</td></tr> <tr><td>180</td><td>0.953</td><td>0.957</td></tr> <tr><td>200</td><td>0.950</td><td>0.956</td></tr> <tr><td>220</td><td>0.947</td><td>0.955</td></tr> <tr><td>240</td><td>0.944</td><td>0.954</td></tr> <tr><td>264</td><td>0.937</td><td>0.952</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>		Input Voltage [V]	Load 50% Power Factor	Load 100% Power Factor	150	0.957	0.959	160	0.955	0.957	170	0.954	0.957	180	0.953	0.957	200	0.950	0.956	220	0.947	0.955	240	0.944	0.954	264	0.937	0.952	—	—	—			
Input Voltage [V]	Load 50% Power Factor	Load 100% Power Factor																																
150	0.957	0.959																																
160	0.955	0.957																																
170	0.954	0.957																																
180	0.953	0.957																																
200	0.950	0.956																																
220	0.947	0.955																																
240	0.944	0.954																																
264	0.937	0.952																																
—	—	—																																
2. Values																																		
<table border="1"> <thead> <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> </thead> <tbody> <tr><td>150</td><td>0.957</td><td>0.959</td></tr> <tr><td>160</td><td>0.955</td><td>0.957</td></tr> <tr><td>170</td><td>0.954</td><td>0.957</td></tr> <tr><td>180</td><td>0.953</td><td>0.957</td></tr> <tr><td>200</td><td>0.950</td><td>0.956</td></tr> <tr><td>220</td><td>0.947</td><td>0.955</td></tr> <tr><td>240</td><td>0.944</td><td>0.954</td></tr> <tr><td>264</td><td>0.937</td><td>0.952</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			Input Voltage [V]	Power Factor		Load 50%	Load 100%	150	0.957	0.959	160	0.955	0.957	170	0.954	0.957	180	0.953	0.957	200	0.950	0.956	220	0.947	0.955	240	0.944	0.954	264	0.937	0.952	—	—	—
Input Voltage [V]	Power Factor																																	
	Load 50%	Load 100%																																
150	0.957	0.959																																
160	0.955	0.957																																
170	0.954	0.957																																
180	0.953	0.957																																
200	0.950	0.956																																
220	0.947	0.955																																
240	0.944	0.954																																
264	0.937	0.952																																
—	—	—																																

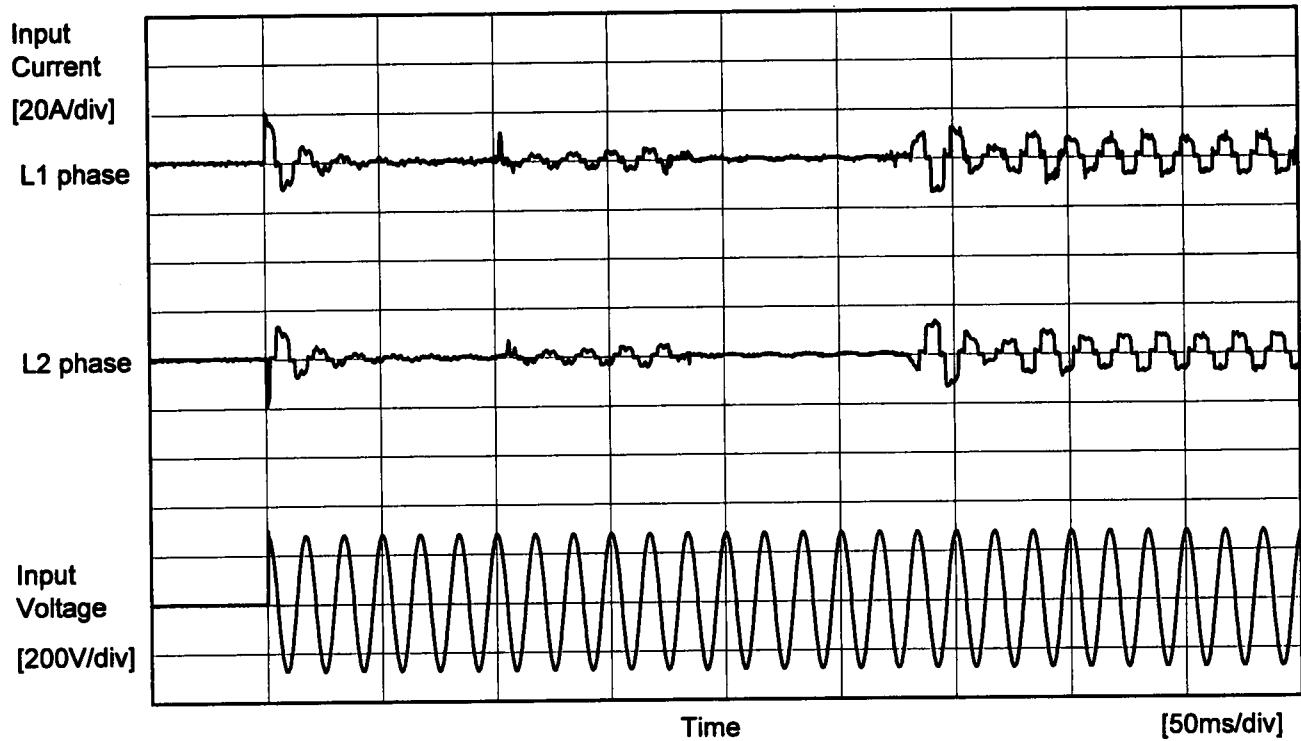
Note: Slanted line shows the range of the rated input voltage.

COSEL

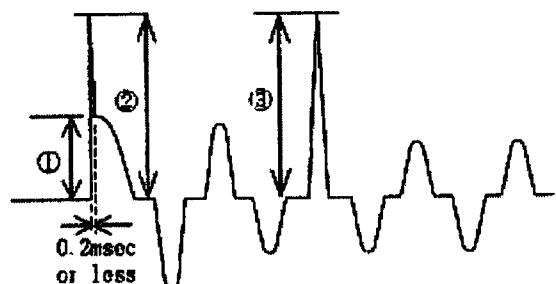
Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																				
Item	Power Factor (by Load Current)																																																						
Object																																																							
1.Graph	<p>—△— Input Volt. 170 V - -□--- Input Volt. 200 V - -○--- Input Volt. 264 V</p> <table border="1"> <caption>Data points estimated from Graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Power Factor (170V)</th> <th>Power Factor (200V)</th> <th>Power Factor (264V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.286</td><td>0.204</td><td>0.103</td></tr> <tr><td>20.0</td><td>0.930</td><td>0.906</td><td>0.829</td></tr> <tr><td>40.0</td><td>0.948</td><td>0.940</td><td>0.912</td></tr> <tr><td>60.0</td><td>0.953</td><td>0.949</td><td>0.934</td></tr> <tr><td>80.0</td><td>0.955</td><td>0.953</td><td>0.943</td></tr> <tr><td>100.0</td><td>0.955</td><td>0.954</td><td>0.948</td></tr> <tr><td>120.0</td><td>0.956</td><td>0.954</td><td>0.950</td></tr> <tr><td>125.0</td><td>0.957</td><td>0.954</td><td>0.950</td></tr> <tr><td>137.5</td><td>0.957</td><td>0.955</td><td>0.951</td></tr> </tbody> </table>	Load Current [A]	Power Factor (170V)	Power Factor (200V)	Power Factor (264V)	0	0.286	0.204	0.103	20.0	0.930	0.906	0.829	40.0	0.948	0.940	0.912	60.0	0.953	0.949	0.934	80.0	0.955	0.953	0.943	100.0	0.955	0.954	0.948	120.0	0.956	0.954	0.950	125.0	0.957	0.954	0.950	137.5	0.957	0.955	0.951	2.Values													
Load Current [A]	Power Factor (170V)	Power Factor (200V)	Power Factor (264V)																																																				
0	0.286	0.204	0.103																																																				
20.0	0.930	0.906	0.829																																																				
40.0	0.948	0.940	0.912																																																				
60.0	0.953	0.949	0.934																																																				
80.0	0.955	0.953	0.943																																																				
100.0	0.955	0.954	0.948																																																				
120.0	0.956	0.954	0.950																																																				
125.0	0.957	0.954	0.950																																																				
137.5	0.957	0.955	0.951																																																				
	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Power Factor</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.286</td><td>0.204</td><td>0.103</td></tr> <tr><td>20.0</td><td>0.930</td><td>0.906</td><td>0.829</td></tr> <tr><td>40.0</td><td>0.948</td><td>0.940</td><td>0.912</td></tr> <tr><td>60.0</td><td>0.953</td><td>0.949</td><td>0.934</td></tr> <tr><td>80.0</td><td>0.955</td><td>0.953</td><td>0.943</td></tr> <tr><td>100.0</td><td>0.955</td><td>0.954</td><td>0.948</td></tr> <tr><td>120.0</td><td>0.956</td><td>0.954</td><td>0.950</td></tr> <tr><td>125.0</td><td>0.957</td><td>0.954</td><td>0.950</td></tr> <tr><td>137.5</td><td>0.957</td><td>0.955</td><td>0.951</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>	Load Current [A]	Power Factor			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	0.286	0.204	0.103	20.0	0.930	0.906	0.829	40.0	0.948	0.940	0.912	60.0	0.953	0.949	0.934	80.0	0.955	0.953	0.943	100.0	0.955	0.954	0.948	120.0	0.956	0.954	0.950	125.0	0.957	0.954	0.950	137.5	0.957	0.955	0.951	--	--	--	--	--	--	--	--			
Load Current [A]	Power Factor																																																						
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																				
0	0.286	0.204	0.103																																																				
20.0	0.930	0.906	0.829																																																				
40.0	0.948	0.940	0.912																																																				
60.0	0.953	0.949	0.934																																																				
80.0	0.955	0.953	0.943																																																				
100.0	0.955	0.954	0.948																																																				
120.0	0.956	0.954	0.950																																																				
125.0	0.957	0.954	0.950																																																				
137.5	0.957	0.955	0.951																																																				
--	--	--	--																																																				
--	--	--	--																																																				
	<p>Note: Slanted line shows the range of the rated load current.</p>																																																						

COSEL

Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C Figure A
Item	Inrush Current		
Object	—		



Input Voltage	200 V
Frequency	60 Hz
Load	100 %
Inrush Current	
①	18.3 A
②	20.4 A (0.2ms or less)*1
③	13.6 A



*1 The specification of the inrush current (primary surge) means that the surge current to a built-in noise filter (0.2ms or less : waveform②) is excluded



Model	PBA1500T-12	Input	AC 3-phase
Item	Leakage Current	Temperature	25°C
Object	_____	Testing Circuitry	Figure B

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.

COSEL

Model	PBA1500T-12																																	
Item	Line Regulation	Input AC 3-phase Temperature 25°C Testing Circuitry Figure A																																
Object	+12V125A																																	
1.Graph		2.Values																																
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p>		<table border="1"> <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>150</td> <td>12.277</td> <td>12.271</td> </tr> <tr> <td>160</td> <td>12.275</td> <td>12.271</td> </tr> <tr> <td>170</td> <td>12.275</td> <td>12.271</td> </tr> <tr> <td>180</td> <td>12.274</td> <td>12.270</td> </tr> <tr> <td>200</td> <td>12.274</td> <td>12.270</td> </tr> <tr> <td>220</td> <td>12.274</td> <td>12.268</td> </tr> <tr> <td>240</td> <td>12.274</td> <td>12.267</td> </tr> <tr> <td>264</td> <td>12.273</td> <td>12.266</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	12.277	12.271	160	12.275	12.271	170	12.275	12.271	180	12.274	12.270	200	12.274	12.270	220	12.274	12.268	240	12.274	12.267	264	12.273	12.266	-	-	-
Input Voltage [V]	Output Voltage [V]																																	
	Load 50%	Load 100%																																
150	12.277	12.271																																
160	12.275	12.271																																
170	12.275	12.271																																
180	12.274	12.270																																
200	12.274	12.270																																
220	12.274	12.268																																
240	12.274	12.267																																
264	12.273	12.266																																
-	-	-																																
<p>Note: Slanted line shows the range of the rated input voltage.</p>																																		

COSEL

Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																																			
Item	Load Regulation																																																					
Object	+12V125A																																																					
1. Graph	<p>—△— Input Volt. 170 V - - -□- - Input Volt. 200 V - - ○ - - Input Volt. 264 V</p>	2. Values																																																				
			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr> <td>0</td><td>12.265</td><td>12.266</td><td>12.267</td></tr> <tr> <td>20.0</td><td>12.265</td><td>12.266</td><td>12.267</td></tr> <tr> <td>40.0</td><td>12.264</td><td>12.265</td><td>12.266</td></tr> <tr> <td>60.0</td><td>12.264</td><td>12.265</td><td>12.266</td></tr> <tr> <td>80.0</td><td>12.263</td><td>12.264</td><td>12.265</td></tr> <tr> <td>100.0</td><td>12.263</td><td>12.264</td><td>12.265</td></tr> <tr> <td>120.0</td><td>12.262</td><td>12.263</td><td>12.264</td></tr> <tr> <td>125.0</td><td>12.262</td><td>12.263</td><td>12.264</td></tr> <tr> <td>137.5</td><td>12.262</td><td>12.263</td><td>12.264</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr> <td>--</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>	Load Current [A]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	12.265	12.266	12.267	20.0	12.265	12.266	12.267	40.0	12.264	12.265	12.266	60.0	12.264	12.265	12.266	80.0	12.263	12.264	12.265	100.0	12.263	12.264	12.265	120.0	12.262	12.263	12.264	125.0	12.262	12.263	12.264	137.5	12.262	12.263	12.264	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
0	12.265	12.266	12.267																																																			
20.0	12.265	12.266	12.267																																																			
40.0	12.264	12.265	12.266																																																			
60.0	12.264	12.265	12.266																																																			
80.0	12.263	12.264	12.265																																																			
100.0	12.263	12.264	12.265																																																			
120.0	12.262	12.263	12.264																																																			
125.0	12.262	12.263	12.264																																																			
137.5	12.262	12.263	12.264																																																			
--	--	--	--																																																			
--	--	--	--																																																			
<p>Note: Slanted line shows the range of the rated load current.</p>																																																						

COSEL

Model PBA1500T-12

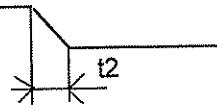
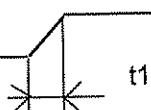
Item Dynamic Load Response

Object +12V125A

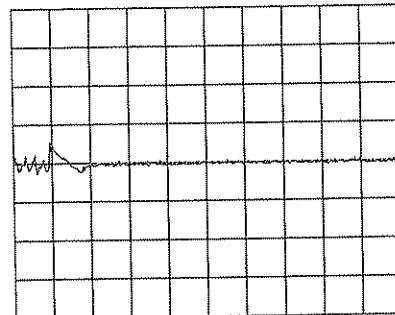
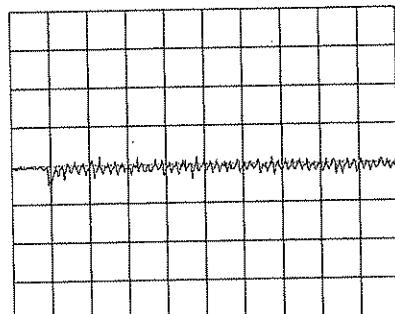
Input AC 3-phase
 Temperature 25°C
 Testing Circuitry Figure A

Input Volt. 200 V
 Cycle 1000 ms

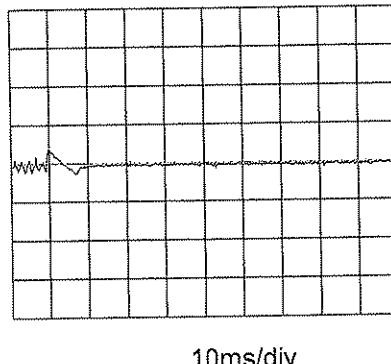
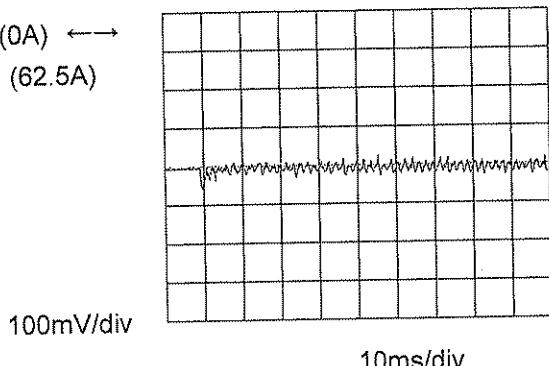
Load Current
 $t_1=t_2=100 \mu s$



Min.Load (0A) ↔
 Load 100% (125A)



Min.Load (0A) ↔
 Load 50% (62.5A)



COSEL

Model	PBA1500T-12																																							
Item	Ripple Voltage (by Load Current)	AC 3-phase 25°C Figure A																																						
Object	+12V125A	Testing Circuitry																																						
1. Graph																																								
2. Values																																								
<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Output Voltage [mV]</th> </tr> <tr> <th>Input Volt. 200[V]</th> <th>Input Volt. 240[V]</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> <td>10</td> </tr> <tr> <td>20.0</td> <td>10</td> <td>10</td> </tr> <tr> <td>40.0</td> <td>10</td> <td>10</td> </tr> <tr> <td>60.0</td> <td>10</td> <td>10</td> </tr> <tr> <td>80.0</td> <td>15</td> <td>15</td> </tr> <tr> <td>100.0</td> <td>15</td> <td>15</td> </tr> <tr> <td>120.0</td> <td>20</td> <td>20</td> </tr> <tr> <td>125.0</td> <td>20</td> <td>20</td> </tr> <tr> <td>137.5</td> <td>20</td> <td>20</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]	Input Volt. 240[V]	0	10	10	20.0	10	10	40.0	10	10	60.0	10	10	80.0	15	15	100.0	15	15	120.0	20	20	125.0	20	20	137.5	20	20	-	-	-	-	-	-
Load Current [A]	Ripple Output Voltage [mV]																																							
	Input Volt. 200[V]	Input Volt. 240[V]																																						
0	10	10																																						
20.0	10	10																																						
40.0	10	10																																						
60.0	10	10																																						
80.0	15	15																																						
100.0	15	15																																						
120.0	20	20																																						
125.0	20	20																																						
137.5	20	20																																						
-	-	-																																						
-	-	-																																						
Measured by 20MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.																																								
<p style="text-align: center;">T1: Due to AC Input Line T2: Due to Switching</p>																																								
Fig. Complex Ripple Wave Form																																								

COSEL

Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																						
Item	Ripple-Noise																																								
Object	+12V125A																																								
1. Graph																																									
<p>—△— Input Volt. 200 V ---○--- Input Volt. 240 V</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple-Noise [mV] (200V)</th> <th>Ripple-Noise [mV] (240V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>20</td></tr> <tr><td>40</td><td>20</td><td>20</td></tr> <tr><td>50</td><td>30</td><td>30</td></tr> <tr><td>70</td><td>40</td><td>40</td></tr> <tr><td>120</td><td>50</td><td>50</td></tr> <tr><td>137.5</td><td>55</td><td>55</td></tr> </tbody> </table>				Load Current [A]	Ripple-Noise [mV] (200V)	Ripple-Noise [mV] (240V)	0	20	20	40	20	20	50	30	30	70	40	40	120	50	50	137.5	55	55																	
Load Current [A]	Ripple-Noise [mV] (200V)	Ripple-Noise [mV] (240V)																																							
0	20	20																																							
40	20	20																																							
50	30	30																																							
70	40	40																																							
120	50	50																																							
137.5	55	55																																							
2. Values																																									
<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple-Noise [mV]</th> </tr> <tr> <th>Input Volt. 200[V]</th> <th>Input Volt. 240[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>20</td></tr> <tr><td>20.0</td><td>20</td><td>20</td></tr> <tr><td>40.0</td><td>20</td><td>20</td></tr> <tr><td>60.0</td><td>30</td><td>30</td></tr> <tr><td>80.0</td><td>40</td><td>40</td></tr> <tr><td>100.0</td><td>40</td><td>40</td></tr> <tr><td>120.0</td><td>50</td><td>50</td></tr> <tr><td>125.0</td><td>50</td><td>50</td></tr> <tr><td>137.5</td><td>55</td><td>55</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>				Load Current [A]	Ripple-Noise [mV]		Input Volt. 200[V]	Input Volt. 240[V]	0	20	20	20.0	20	20	40.0	20	20	60.0	30	30	80.0	40	40	100.0	40	40	120.0	50	50	125.0	50	50	137.5	55	55	--	--	--	--	--	--
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 200[V]	Input Volt. 240[V]																																							
0	20	20																																							
20.0	20	20																																							
40.0	20	20																																							
60.0	30	30																																							
80.0	40	40																																							
100.0	40	40																																							
120.0	50	50																																							
125.0	50	50																																							
137.5	55	55																																							
--	--	--																																							
--	--	--																																							
<p>Measured by 20MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>T1: Due to AC Input Line T2: Due to Switching</p> <p>Ripple-Noise [mVp-p]</p> <p>T1</p> <p>T2</p>																																									
<p>Fig. Complex Ripple Wave Form</p>																																									

COSEL

<p>Model PBA1500T-12</p> <p>Item Ripple Voltage (by Ambient Temp.)</p> <p>Object +12V125A</p>	Input Testing Circuitry AC 3-phase Figure A																																						
	2. Values																																						
	<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 200 [V]</th> <th>Input Volt. 240 [V]</th> </tr> </thead> <tbody> <tr> <td>-30</td><td>85</td><td>85</td></tr> <tr> <td>-20</td><td>50</td><td>50</td></tr> <tr> <td>-10</td><td>30</td><td>30</td></tr> <tr> <td>0</td><td>25</td><td>25</td></tr> <tr> <td>10</td><td>20</td><td>20</td></tr> <tr> <td>25</td><td>20</td><td>20</td></tr> <tr> <td>30</td><td>20</td><td>20</td></tr> <tr> <td>40</td><td>15</td><td>15</td></tr> <tr> <td>50</td><td>15</td><td>15</td></tr> <tr> <td>60</td><td>15</td><td>15</td></tr> <tr> <td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Input Volt. 200 [V]	Input Volt. 240 [V]	-30	85	85	-20	50	50	-10	30	30	0	25	25	10	20	20	25	20	20	30	20	20	40	15	15	50	15	15	60	15	15	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																						
	Input Volt. 200 [V]	Input Volt. 240 [V]																																					
-30	85	85																																					
-20	50	50																																					
-10	30	30																																					
0	25	25																																					
10	20	20																																					
25	20	20																																					
30	20	20																																					
40	15	15																																					
50	15	15																																					
60	15	15																																					
-	-	-																																					
<p>The graph plots Ripple Voltage [mV] on the Y-axis (0 to 200) against Ambient Temperature [°C] on the X-axis (-40 to 60). Data points are shown for Input Volt. 200V (squares) and Input Volt. 240V (triangles). The points show a general decrease in ripple voltage as temperature increases. Two slanted lines represent the range of ambient temperatures for which the product is rated.</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Ambient Temperature [°C]</th> <th>Ripple Voltage [mV] (Input Volt. 200V)</th> <th>Ripple Voltage [mV] (Input Volt. 240V)</th> </tr> </thead> <tbody> <tr><td>-30</td><td>85</td><td>85</td></tr> <tr><td>-20</td><td>50</td><td>50</td></tr> <tr><td>-10</td><td>30</td><td>30</td></tr> <tr><td>0</td><td>25</td><td>25</td></tr> <tr><td>10</td><td>20</td><td>20</td></tr> <tr><td>25</td><td>20</td><td>20</td></tr> <tr><td>30</td><td>20</td><td>20</td></tr> <tr><td>40</td><td>15</td><td>15</td></tr> <tr><td>50</td><td>15</td><td>15</td></tr> <tr><td>60</td><td>15</td><td>15</td></tr> </tbody> </table>		Ambient Temperature [°C]	Ripple Voltage [mV] (Input Volt. 200V)	Ripple Voltage [mV] (Input Volt. 240V)	-30	85	85	-20	50	50	-10	30	30	0	25	25	10	20	20	25	20	20	30	20	20	40	15	15	50	15	15	60	15	15					
Ambient Temperature [°C]	Ripple Voltage [mV] (Input Volt. 200V)	Ripple Voltage [mV] (Input Volt. 240V)																																					
-30	85	85																																					
-20	50	50																																					
-10	30	30																																					
0	25	25																																					
10	20	20																																					
25	20	20																																					
30	20	20																																					
40	15	15																																					
50	15	15																																					
60	15	15																																					
<p>Measured by 20MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature.</p>																																							

COSEL

Model	PBA1500T-12	Input AC 3-phase Testing Circuitry Figure A																																																				
Item	Ambient Temperature Drift																																																					
Object	+12V125A																																																					
1.Graph	<p>—▲— Input Volt. 170 V</p> <p>- - □ - - Input Volt. 200 V</p> <p>- - ○ - - Input Volt. 264 V</p> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>	2.Values																																																				
<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr> <td>-30</td><td>12.295</td><td>12.295</td><td>12.301</td></tr> <tr> <td>-20</td><td>12.305</td><td>12.305</td><td>12.304</td></tr> <tr> <td>-10</td><td>12.303</td><td>12.302</td><td>12.301</td></tr> <tr> <td>0</td><td>12.299</td><td>12.298</td><td>12.297</td></tr> <tr> <td>10</td><td>12.295</td><td>12.294</td><td>12.293</td></tr> <tr> <td>25</td><td>12.286</td><td>12.285</td><td>12.284</td></tr> <tr> <td>30</td><td>12.284</td><td>12.283</td><td>12.281</td></tr> <tr> <td>40</td><td>12.274</td><td>12.273</td><td>12.271</td></tr> <tr> <td>50</td><td>12.256</td><td>12.254</td><td>12.255</td></tr> <tr> <td>60</td><td>12.238</td><td>12.236</td><td>12.231</td></tr> <tr> <td>-</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>				Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-30	12.295	12.295	12.301	-20	12.305	12.305	12.304	-10	12.303	12.302	12.301	0	12.299	12.298	12.297	10	12.295	12.294	12.293	25	12.286	12.285	12.284	30	12.284	12.283	12.281	40	12.274	12.273	12.271	50	12.256	12.254	12.255	60	12.238	12.236	12.231	-	--	--	--
Ambient Temperature [°C]	Output Voltage [V]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
-30	12.295	12.295	12.301																																																			
-20	12.305	12.305	12.304																																																			
-10	12.303	12.302	12.301																																																			
0	12.299	12.298	12.297																																																			
10	12.295	12.294	12.293																																																			
25	12.286	12.285	12.284																																																			
30	12.284	12.283	12.281																																																			
40	12.274	12.273	12.271																																																			
50	12.256	12.254	12.255																																																			
60	12.238	12.236	12.231																																																			
-	--	--	--																																																			

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



Model	PBA1500T-12	Input Testing Circuitry AC 3-phase Figure A
Item	Output Voltage Accuracy	
Object	+12V125A	

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 – 125A

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

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

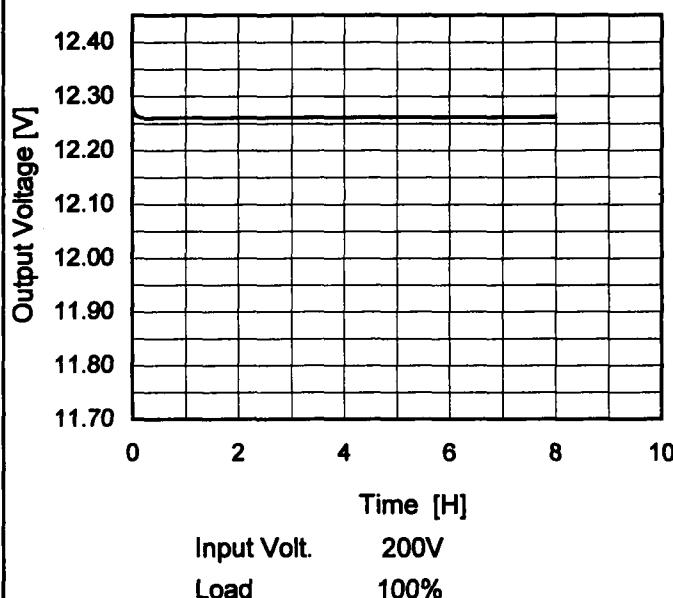
2. Values

Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-20	264	0	12.307	±35	±0.3
Minimum Voltage	50	200	125	12.238		

COSEL

Model	PBA1500T-12
Item	Time Lapse Drift
Object	+12V125A

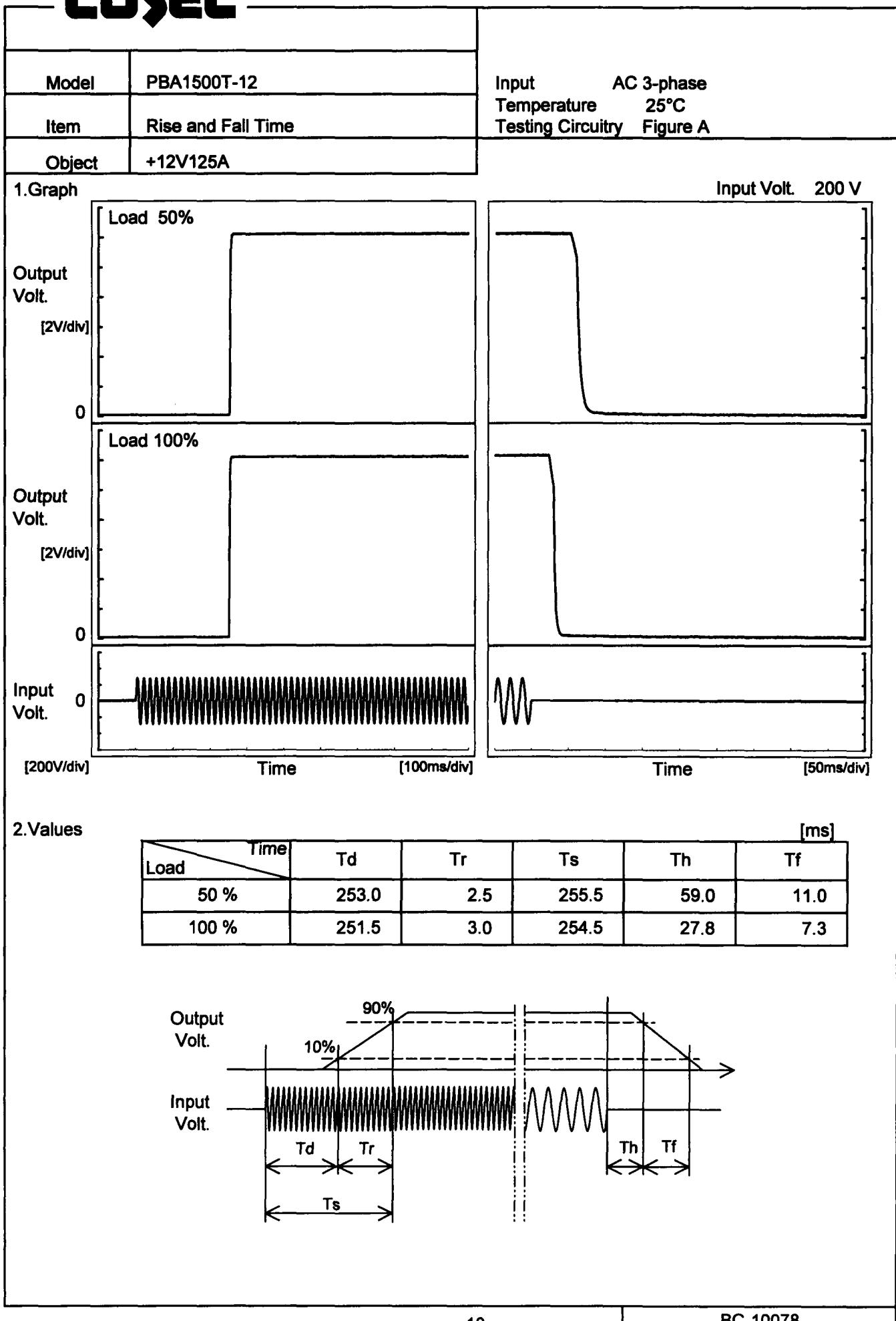
1. Graph



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

2. Values

Time since start [H]	Output Voltage [V]
0.0	12.281
0.5	12.260
1.0	12.260
2.0	12.261
3.0	12.261
4.0	12.261
5.0	12.262
6.0	12.262
7.0	12.262
8.0	12.262

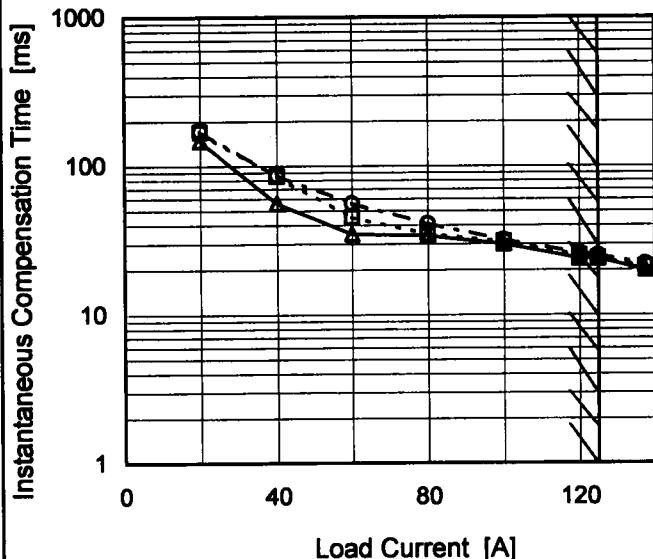
COSEL

COSEL

Model	PBA1500T-12	Input Temperature Testing Circuitry	AC 3-phase 25°C ¹ Figure A																																
Item	Hold-Up Time																																		
Object	+12V125A																																		
1. Graph			2. Values																																
			<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>150</td><td>51</td><td>23</td> </tr> <tr> <td>160</td><td>52</td><td>23</td> </tr> <tr> <td>170</td><td>52</td><td>23</td> </tr> <tr> <td>180</td><td>52</td><td>24</td> </tr> <tr> <td>200</td><td>53</td><td>24</td> </tr> <tr> <td>220</td><td>53</td><td>25</td> </tr> <tr> <td>240</td><td>54</td><td>25</td> </tr> <tr> <td>264</td><td>54</td><td>25</td> </tr> <tr> <td>--</td><td>--</td><td>--</td> </tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	150	51	23	160	52	23	170	52	23	180	52	24	200	53	24	220	53	25	240	54	25	264	54	25	--	--	--
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
150	51	23																																	
160	52	23																																	
170	52	23																																	
180	52	24																																	
200	53	24																																	
220	53	25																																	
240	54	25																																	
264	54	25																																	
--	--	--																																	
<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-12
Item Instantaneous Interruption Compensation
Object +12V125A
1. Graph

—△— Input Volt. 170 V
 - -□--- Input Volt. 200 V
 - -○--- Input Volt. 264 V



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

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

2. Values

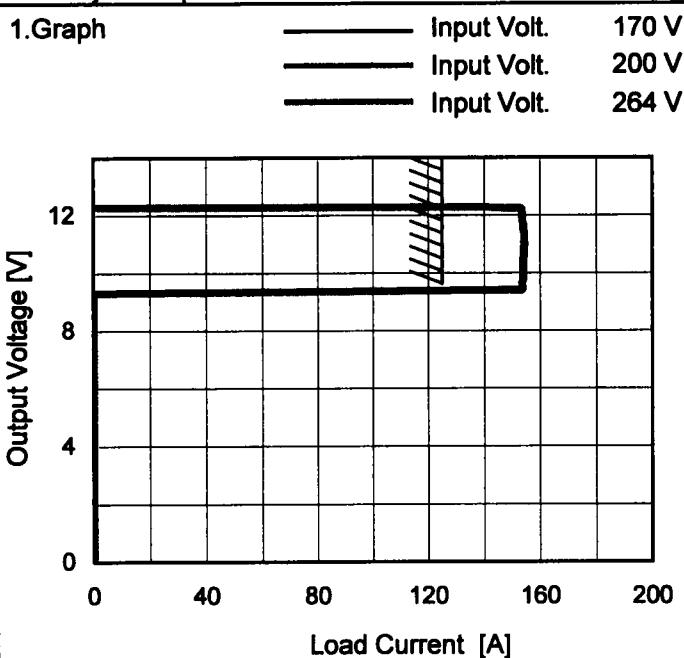
Load Current [A]	Time [ms]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0	—	—	—
20.0	148	169	172
40.0	56	85	86
60.0	35	45	56
80.0	34	35	41
100.0	30	31	32
120.0	24	25	26
125.0	24	24	25
137.5	20	21	22
—	—	—	—
—	—	—	—

COSEL

<p>Model</p> <p>Item</p> <p>Object</p>	PBA1500T-12 Minimum Input Voltage for Regulated Output Voltage +12V125A																																						
	Input Testing Circuitry	AC 3-phase Figure A																																					
	2.Values																																						
<p>1.Graph</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</p>																																							
<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																							
<table border="1"> <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>-30</td> <td>137</td> <td>137</td> </tr> <tr> <td>-20</td> <td>137</td> <td>137</td> </tr> <tr> <td>-10</td> <td>136</td> <td>137</td> </tr> <tr> <td>0</td> <td>136</td> <td>137</td> </tr> <tr> <td>10</td> <td>136</td> <td>137</td> </tr> <tr> <td>25</td> <td>136</td> <td>137</td> </tr> <tr> <td>30</td> <td>137</td> <td>137</td> </tr> <tr> <td>40</td> <td>136</td> <td>137</td> </tr> <tr> <td>50</td> <td>136</td> <td>137</td> </tr> <tr> <td>60</td> <td>136</td> <td>137</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-30	137	137	-20	137	137	-10	136	137	0	136	137	10	136	137	25	136	137	30	137	137	40	136	137	50	136	137	60	136	137	—	—	—
Ambient Temperature [°C]	Input Voltage [V]																																						
	Load 50%	Load 100%																																					
-30	137	137																																					
-20	137	137																																					
-10	136	137																																					
0	136	137																																					
10	136	137																																					
25	136	137																																					
30	137	137																																					
40	136	137																																					
50	136	137																																					
60	136	137																																					
—	—	—																																					

COSEL

Model	PBA1500T-12
Item	Overcurrent Protection
Object	+12V125A



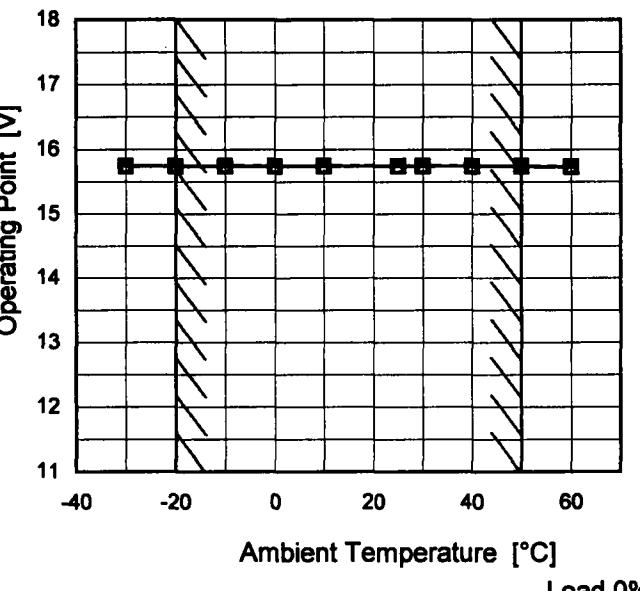
Note: Slanted line shows the range of the rated load current.

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

2. Values

Output Voltage [V]	Load Current [A]		
	170[V]	200[V]	264[V]
12.0	152.97	153.15	153.28
11.4	154.00	154.13	154.33
10.8	154.48	154.41	154.24
9.6	153.76	153.82	153.79
8.4	0.00	0.00	0.00
7.2	0.00	0.00	0.00
6.0	0.00	0.00	0.00
4.8	0.00	0.00	0.00
3.6	0.00	0.00	0.00
2.4	0.00	0.00	0.00
1.2	0.00	0.00	0.00
0.0	0.00	0.00	0.00

COSEL

<p>Model PBA1500T-12</p> <p>Item Overvoltage Protection</p> <p>Object +12V125A</p>	Input AC 3-phase Testing Circuitry Figure A																																																				
	1. Graph <div style="display: flex; justify-content: space-between;"> △ Input Volt. 170 V □ Input Volt. 200 V ○ Input Volt. 264 V </div>  <p>Ambient Temperature [°C]</p> <p>Load 0%</p>																																																				
	2. Values <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Operating Point [V]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr> <td>-30</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>-20</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>-10</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>0</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>10</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>25</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>30</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>40</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>50</td><td>15.74</td><td>15.74</td><td>15.74</td></tr> <tr> <td>60</td><td>15.73</td><td>15.73</td><td>15.73</td></tr> <tr> <td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			Ambient Temperature [°C]	Operating Point [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-30	15.74	15.74	15.74	-20	15.74	15.74	15.74	-10	15.74	15.74	15.74	0	15.74	15.74	15.74	10	15.74	15.74	15.74	25	15.74	15.74	15.74	30	15.74	15.74	15.74	40	15.74	15.74	15.74	50	15.74	15.74	15.74	60	15.73	15.73	15.73	—	—	—
Ambient Temperature [°C]	Operating Point [V]																																																				
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																		
-30	15.74	15.74	15.74																																																		
-20	15.74	15.74	15.74																																																		
-10	15.74	15.74	15.74																																																		
0	15.74	15.74	15.74																																																		
10	15.74	15.74	15.74																																																		
25	15.74	15.74	15.74																																																		
30	15.74	15.74	15.74																																																		
40	15.74	15.74	15.74																																																		
50	15.74	15.74	15.74																																																		
60	15.73	15.73	15.73																																																		
—	—	—	—																																																		
<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																																					

COSEL

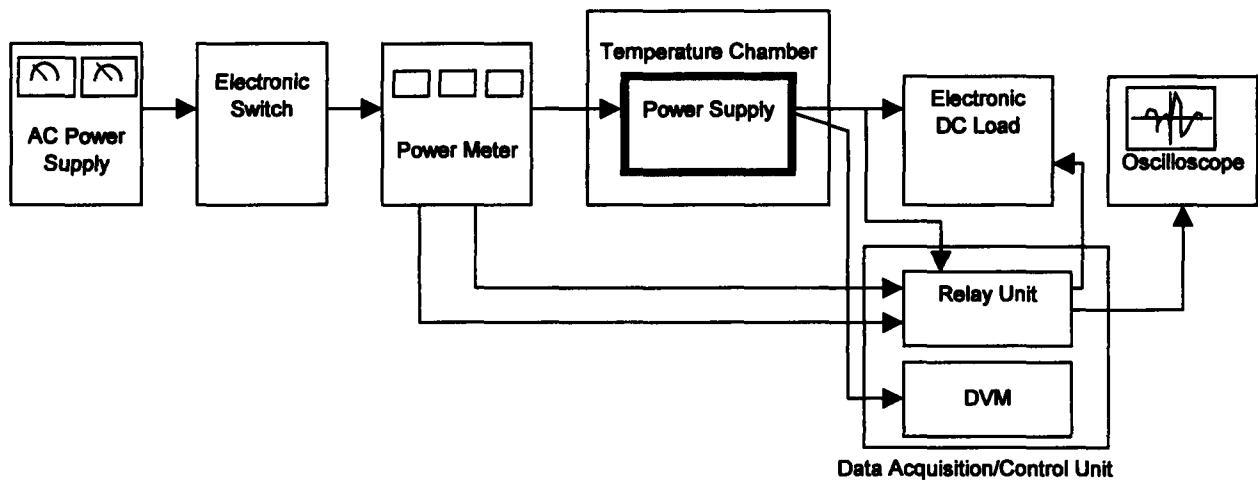


Figure A

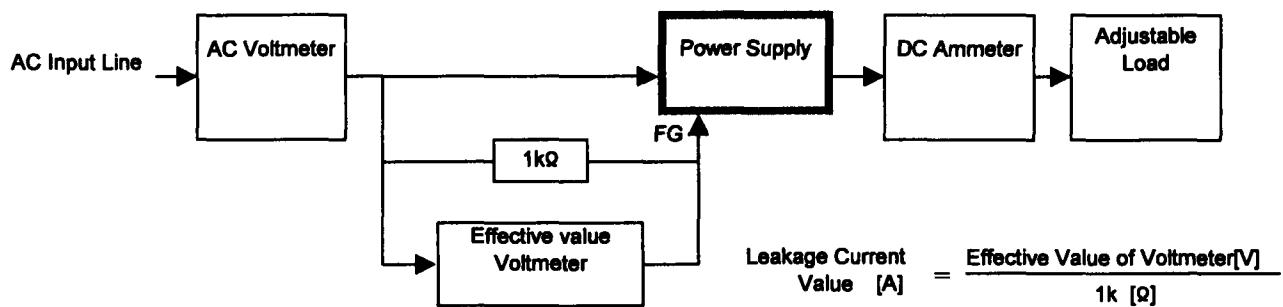


Figure B (DEN-AN)

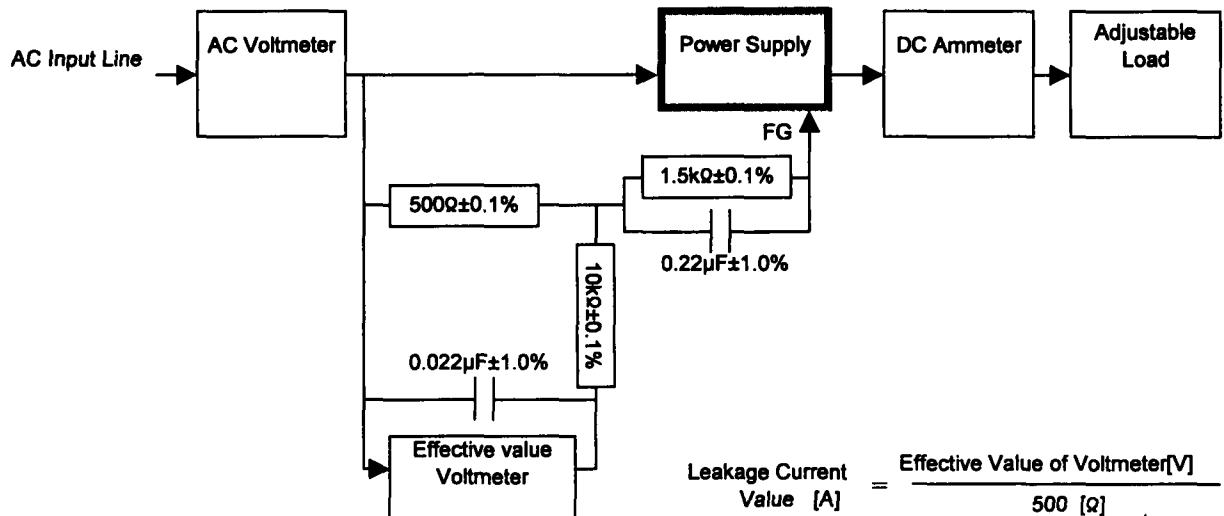


Figure B (IEC60950)