



TEST DATA OF PJMA1500F-12

Regulated DC Power Supply
September 27, 2022

Approved by : _____
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Design Manager

Prepared by : _____
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Design Engineer

COSEL CO.,LTD.



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(Final Page 18)

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Item	Efficiency (by Input Voltage)																																
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<p>The graph plots Efficiency [%] on the y-axis (50 to 100) against Input Voltage [V] on the x-axis (50 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 efficiency increasing with input voltage. A slanted line indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>85</td><td>82.4</td><td>79.4</td></tr> <tr><td>100</td><td>83.1</td><td>81.1</td></tr> <tr><td>115</td><td>83.7</td><td>82.2</td></tr> <tr><td>200</td><td>85.5</td><td>84.6</td></tr> <tr><td>230</td><td>85.1</td><td>85.0</td></tr> <tr><td>264</td><td>86.4</td><td>85.5</td></tr> <tr><td>280</td><td>86.7</td><td>85.7</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>				Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	85	82.4	79.4	100	83.1	81.1	115	83.7	82.2	200	85.5	84.6	230	85.1	85.0	264	86.4	85.5	280	86.7	85.7	--	-	-	--	-	-
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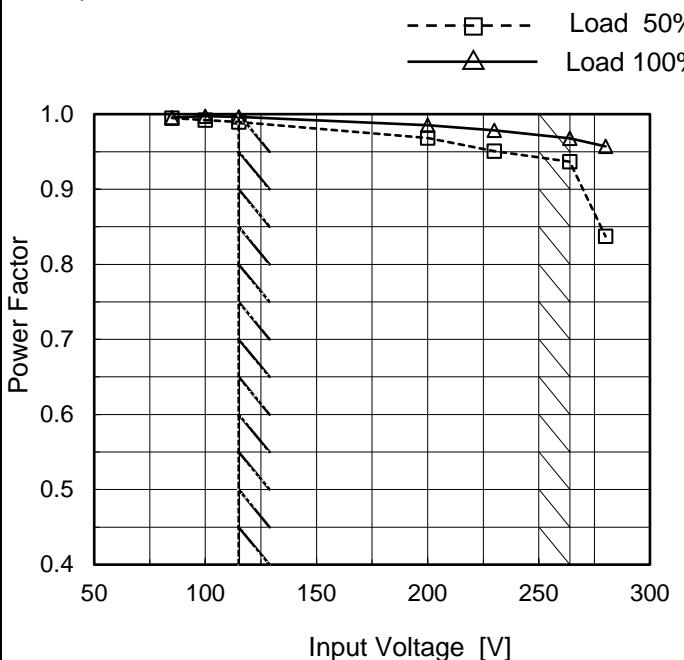
Note: Slanted line shows the range of the rated load current.

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Model	PJMA1500F-12
Item	Power Factor (by Input Voltage)
Object	_____

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



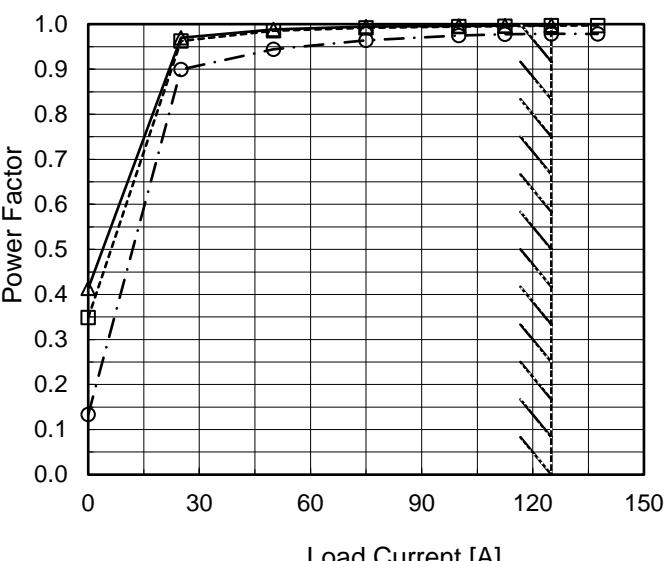
2.Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.995	0.996 $\times 1$
100	0.992	0.997 $\times 2$
115	0.990	0.996
200	0.968	0.985
230	0.951	0.978
264	0.937	0.968
280	0.837	0.957
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 $\times 1$: Load 80% $\times 2$: Load 90%

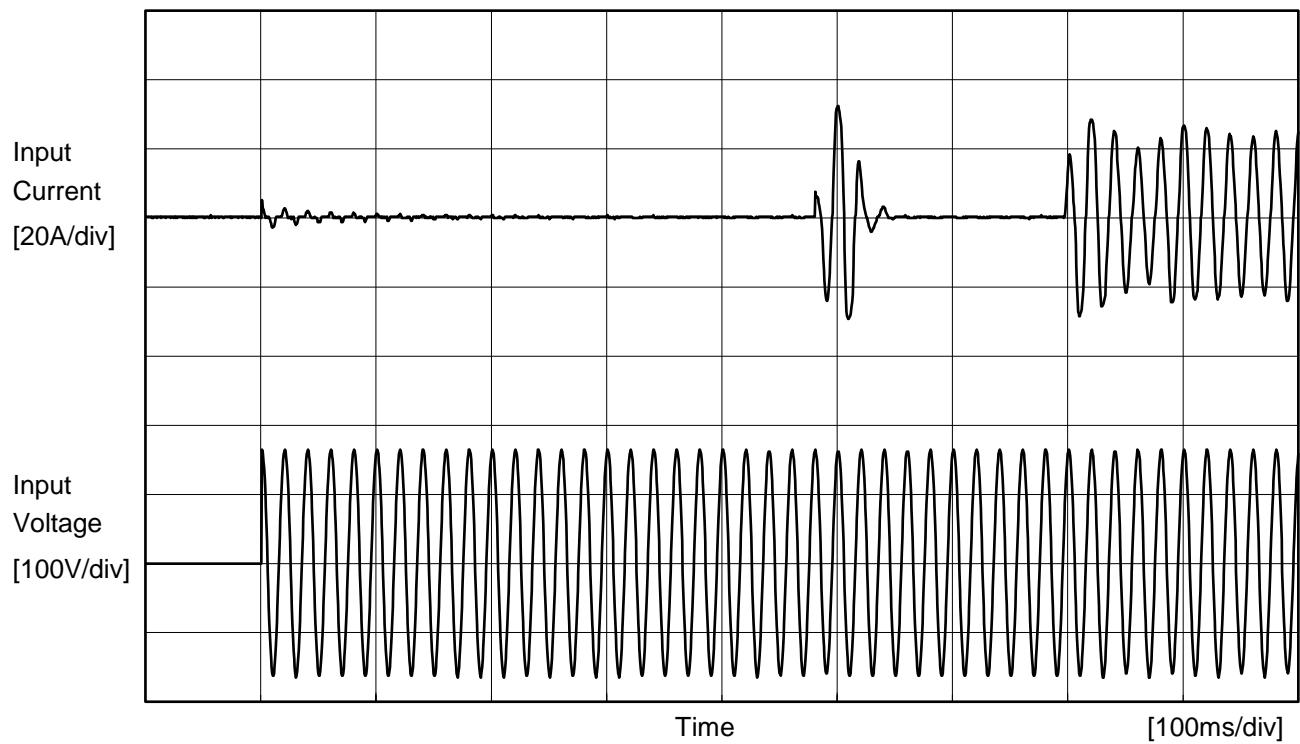
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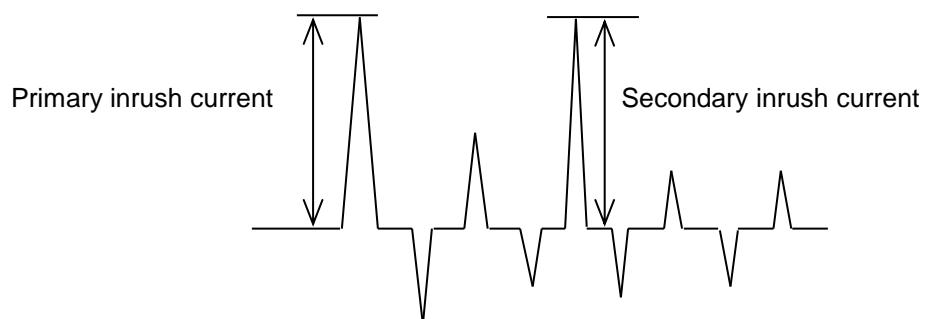
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Model	PJMA1500F-12	Temperature Testing Circuitry Figure A	25°C
Item	Inrush Current		
Object	_____		



Input Voltage	115 V
Frequency	50 Hz
Load	100 %

Primary inrush current	5.1 A
Secondary inrush current	32.3 A





Model	PJMA1500F-12	Temperature	25°C
Item	Leakage Current	Testing Circuitry	Figure C
Object	_____		

1. Results

Standards		Input Volt.			Note
		230 [V]	240 [V]	264 [V]	
IEC60601-1	Both phases	0.21	0.24	0.27	Operation
	One of phases	0.39	0.40	0.45	Stand by

The value for "One of phases" is the reference value only.

2. Condition

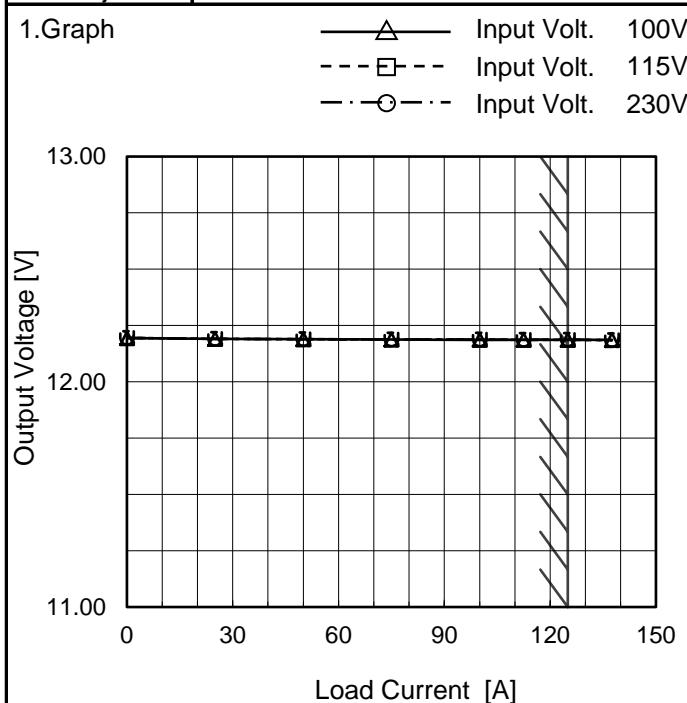
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

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Model	PJMA1500F-12																																	
Item	Line Regulation	Temperature 25°C Testing Circuitry Figure A																																
Object	+12V125A																																	
1.Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line), Load 100% (solid line)</p>																																		
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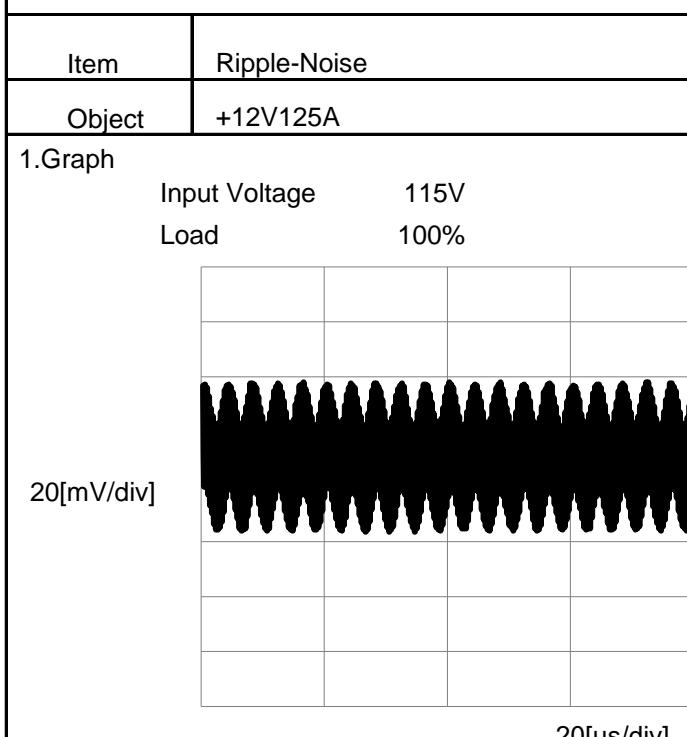
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Model	PJMA1500F-12
Item	Load Regulation
Object	+12V125A

 Temperature 25°C
 Testing Circuitry Figure A


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

Load Current [A]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.0	12.194	12.195	12.195
25.0	12.190	12.191	12.191
50.0	12.189	12.189	12.189
75.0	12.188	12.187	12.188
100.0	12.186	12.187	12.188
112.5	12.186	12.186	12.186
125.0	12.186	12.187	12.187
137.5	12.186	12.185	12.184
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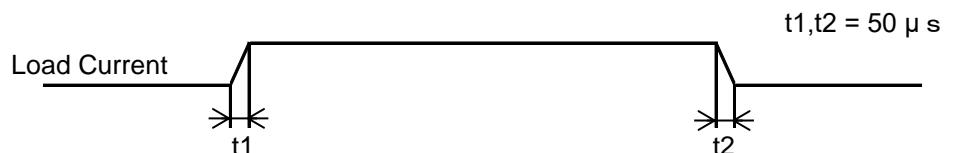

 Temperature 25°C
 Testing Circuitry Figure B

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Model	PJMA1500F-12
Item	Dynamic Load Response
Object	+12V125A

Temperature 25°C
Testing Circuitry Figure A

Input Volt. 115 V
Cycle 1000 ms



Min.Load (0A)↔
Load 100% (125A)

200 mV/div

10 ms/div

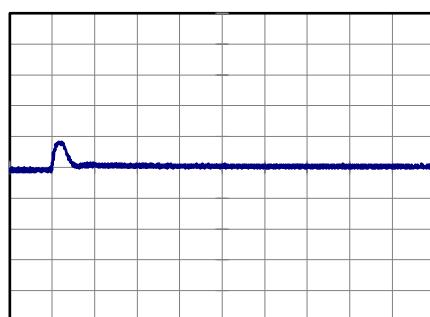


10 ms/div

Load 50% (62.5A)↔
Load 100% (125A)

200 mV/div

100 us/div



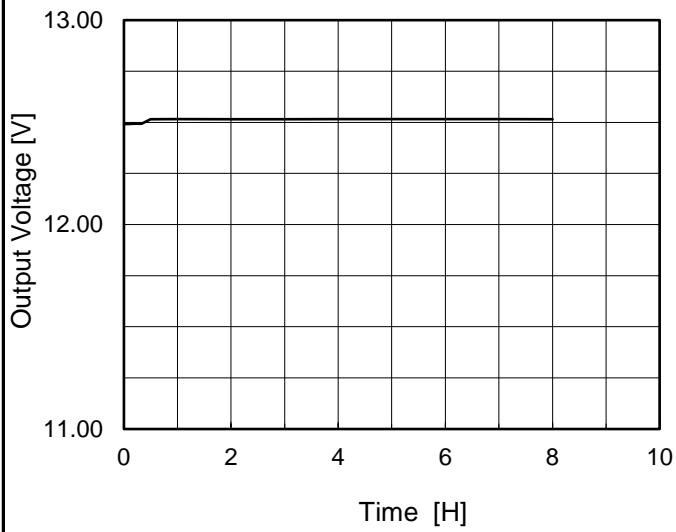
100 us/div

COSEL

Model	PJMA1500F-12
Item	Time Lapse Drift
Object	+12V125A

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



2.Values

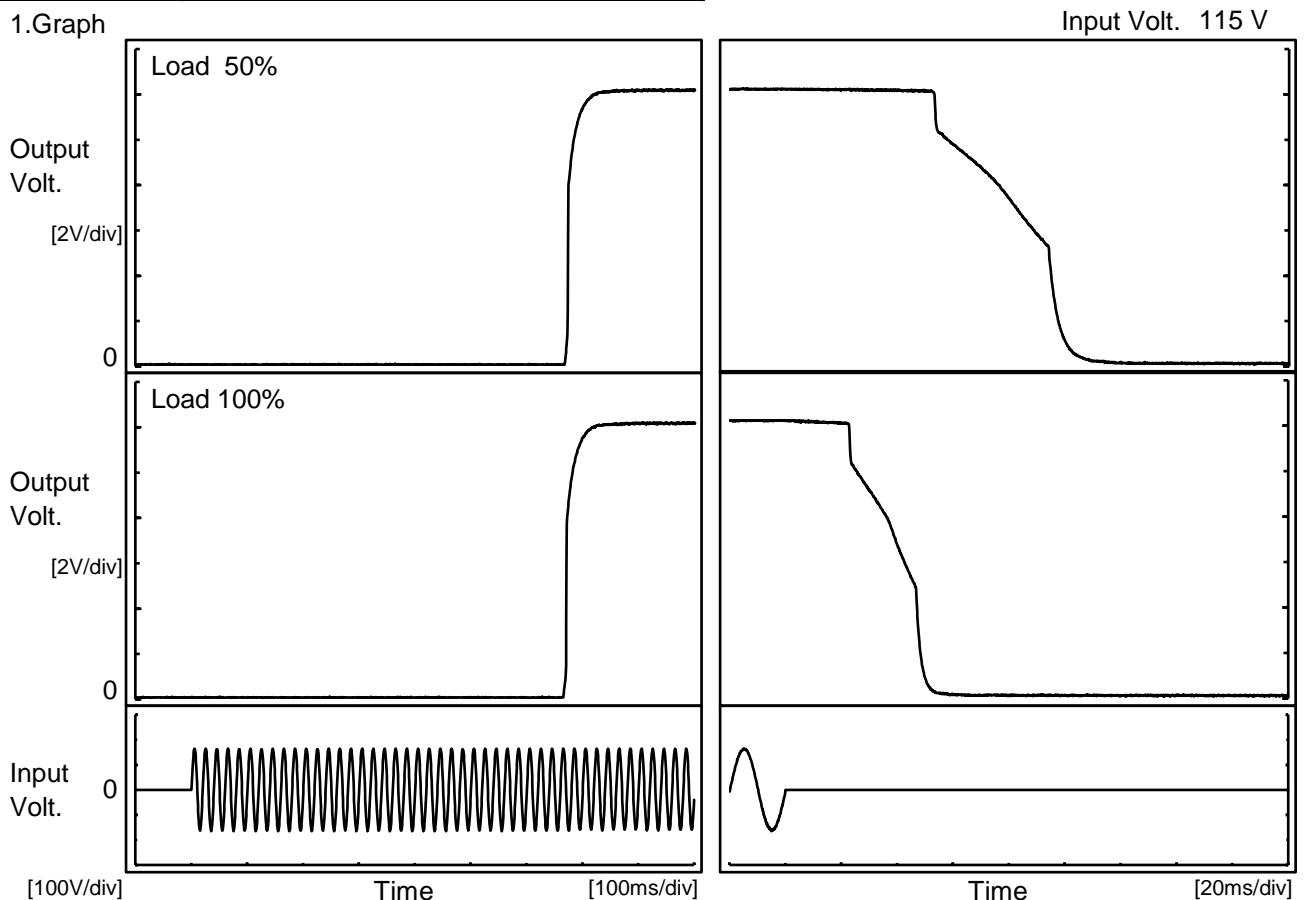
Time since start [H]	Output Voltage [V]
0.0	12.492
0.5	12.515
1.0	12.516
2.0	12.515
3.0	12.515
4.0	12.516
5.0	12.516
6.0	12.516
7.0	12.516
8.0	12.515

COSEL

Model	PJMA1500F-12
Item	Rise and Fall Time
Object	+12V125A

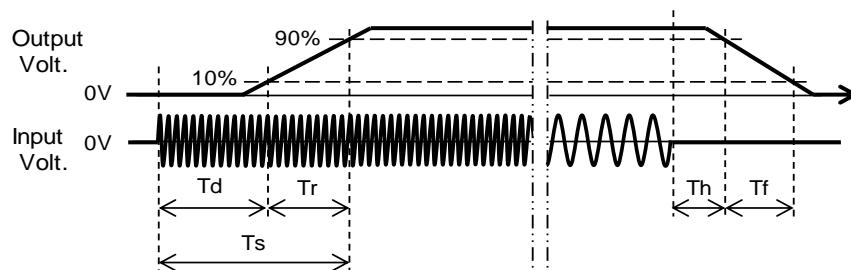
 Temperature 25°C
 Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		672.0	19.5	691.5	53.7	45.7	
100 %		669.5	19.5	689.0	23.2	26.0	



COSEL

Model	PJMA1500F-12	Temperature	25°C																																
Item	Hold-Up Time	Testing Circuitry	Figure A																																
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>85</td><td>50</td><td>29 ※1</td></tr> <tr><td>100</td><td>52</td><td>30 ※2</td></tr> <tr><td>115</td><td>53</td><td>31</td></tr> <tr><td>200</td><td>58</td><td>35</td></tr> <tr><td>230</td><td>59</td><td>36</td></tr> <tr><td>264</td><td>58</td><td>36</td></tr> <tr><td>280</td><td>58</td><td>35</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	50	29 ※1	100	52	30 ※2	115	53	31	200	58	35	230	59	36	264	58	36	280	58	35	--	-	-	--	-	-
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--	-	-																																	
--	-	-																																	
			※1 : Load 80% ※2 : Load 90%																																
<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	PJMA1500F-12	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation	Testing Circuitry	Figure A																																																			
Object	+12V125A																																																					
1.Graph	<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 100V Input Volt. 115V Input Volt. 230V <p>Note: Slanted line shows the range of the rated load current.</p>																																																					
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Load Current [A]	Time [ms]																																																					
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COSEL

Model	PJMA1500F-12	Temperature	25°C																																																								
Item	Overcurrent Protection	Testing Circuitry	Figure A																																																								
Object	+12V125A																																																										
1.Graph		2.Values																																																									
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<p>Intermittent operation occurs when the output voltage is from 7.2V to 0V.</p>																																																											



Model	PJMA1500F-12	Testing Circuitry Figure A
Item	Ambient Temperature Drift	
Object	+12V125A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-20	12.111	12.110	12.113
25	12.186	12.187	12.186
50	12.206	12.205	12.206

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+12V125A		

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	68	70
25	68	71
50	67	69

Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+12V125A		

1.Values

Load 0%

Ambient Temperature[°C]	Operating Point [V]	
	Input Volt. 100V	Input Volt. 230V
-20	15.61	15.61
25	16.02	16.02
50	16.31	16.25

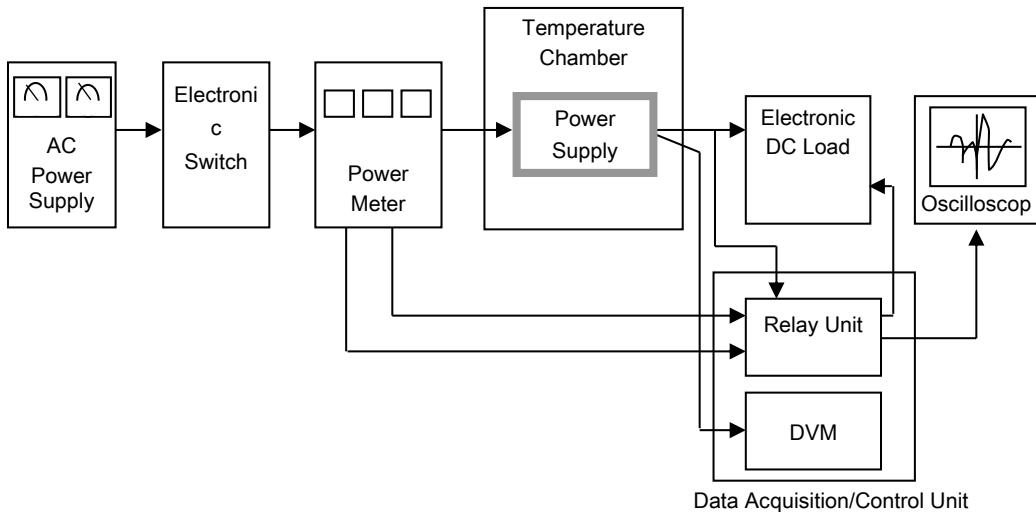
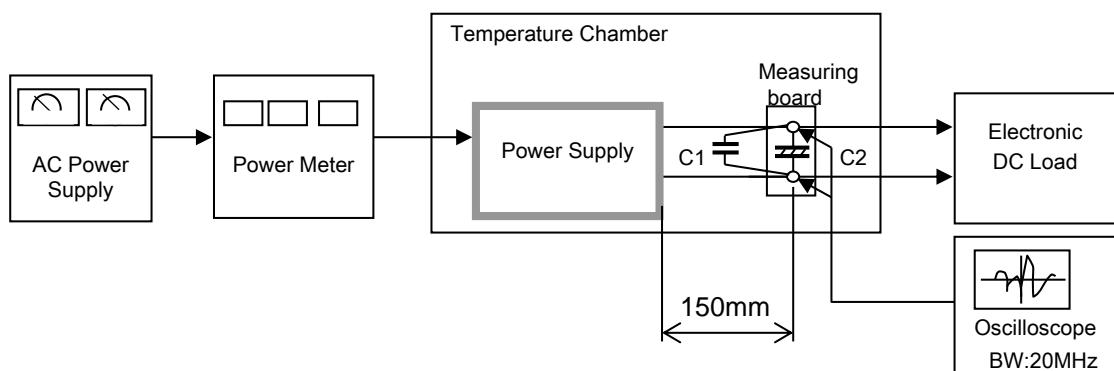


Figure A



C1= 0.1 μ F
(Ceramic capacitor)

C2= 22 μ F
(Electrolytic capacitor)

Figure B

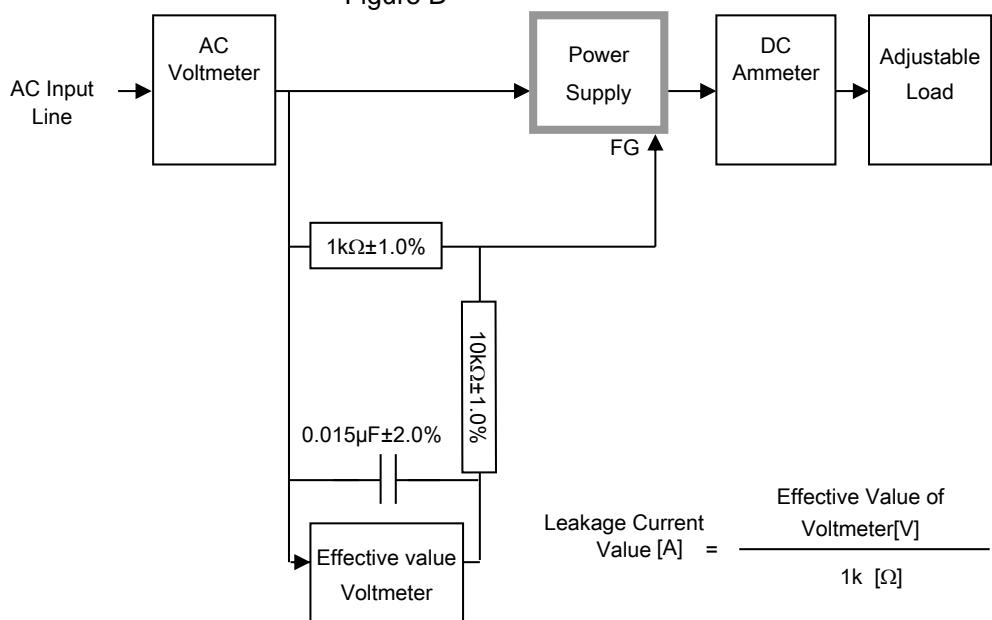


Figure C (IEC60601-1)