



TEST DATA OF UMA30F-15

Regulated DC Power Supply
September 4, 2023

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Design Manager

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Design Engineer

COSEL CO.,LTD.

CONTENTS

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

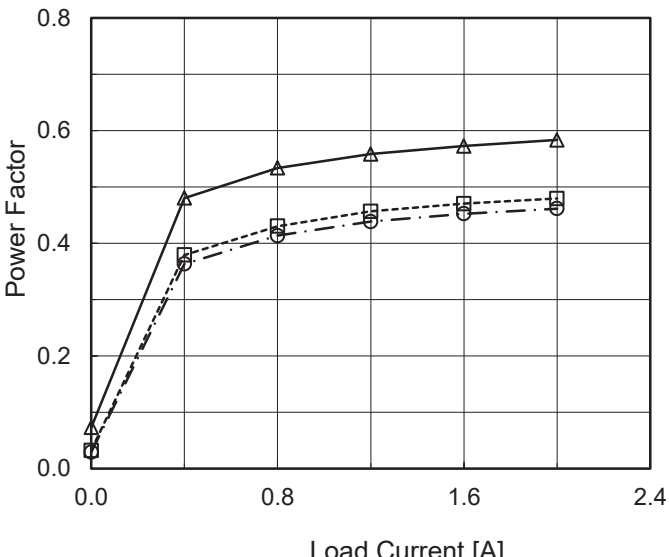
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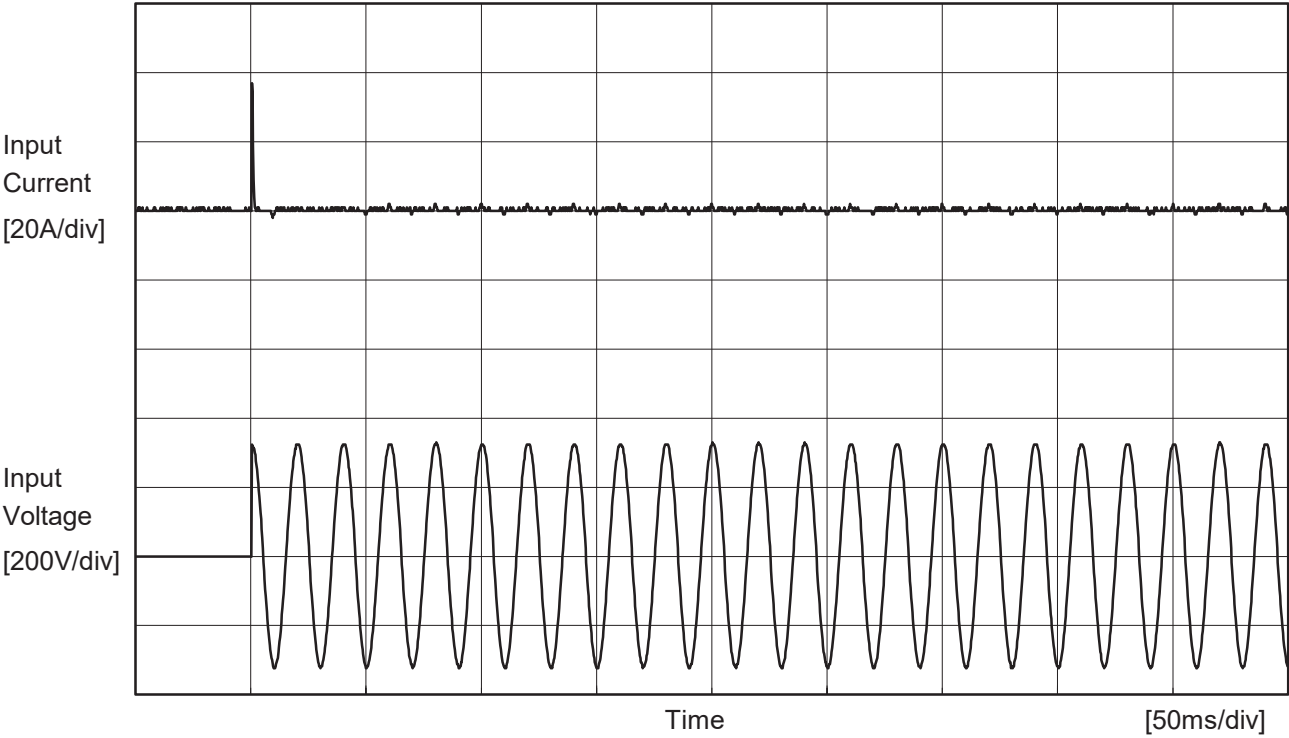
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- 3 -

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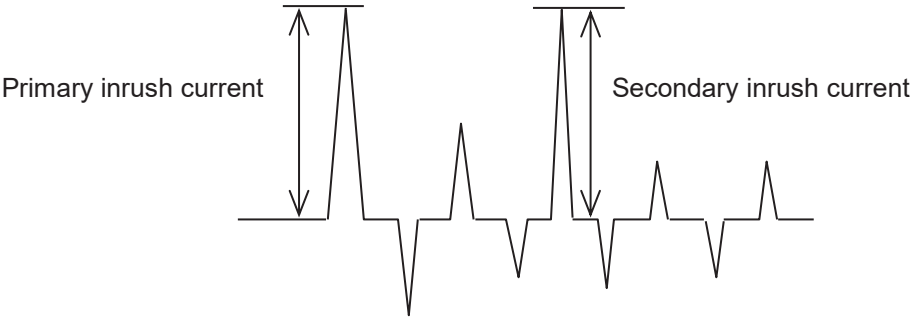


Model		UMA30F-15	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		+15V2A	



Input Voltage 230 V
Frequency 50 Hz
Load 100 %

Primary inrush current 37.0 A
Secondary inrush current 2.0 A





Model		UMA30F-15	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		+15V2A	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			115 [V]	230 [V]	264 [V]	
IEC60601-1	Figure C-1	Both phases	0.05	0.11	0.12	Operation
		One of phases	0.10	0.21	0.24	Stand by
IEC62368-1	Figure C-2	Both phases	0.05	0.11	0.13	Operation
		One of phases	0.10	0.21	0.25	Stand by
	Figure C-3	Both phases	0.05	0.11	0.12	Operation
		One of phases	0.10	0.21	0.25	Stand by

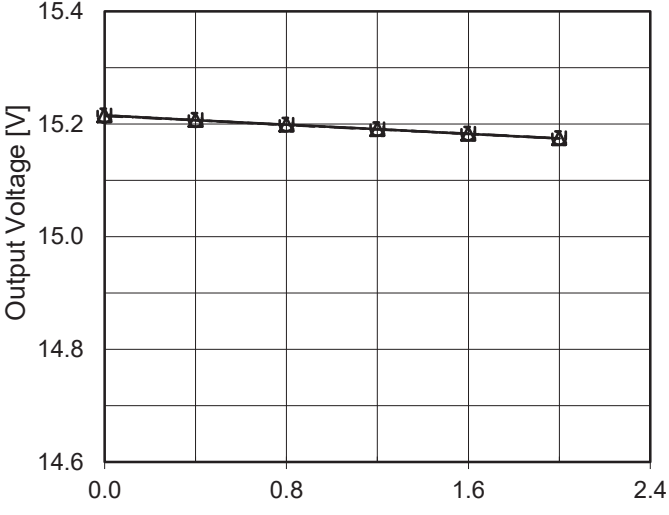
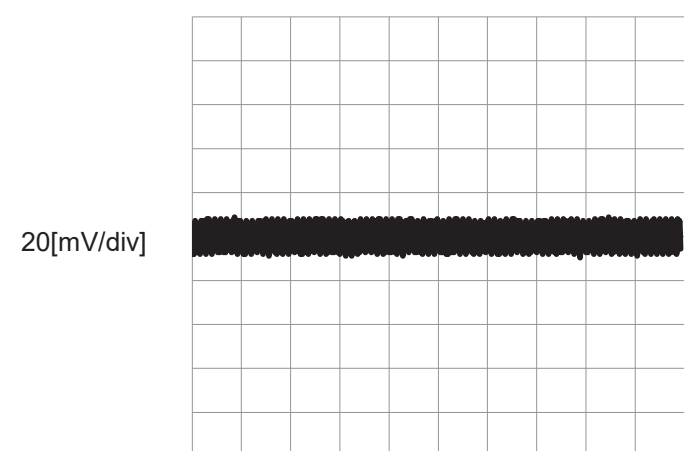
The value for "One of phases" is the reference value only.

2.Condition

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

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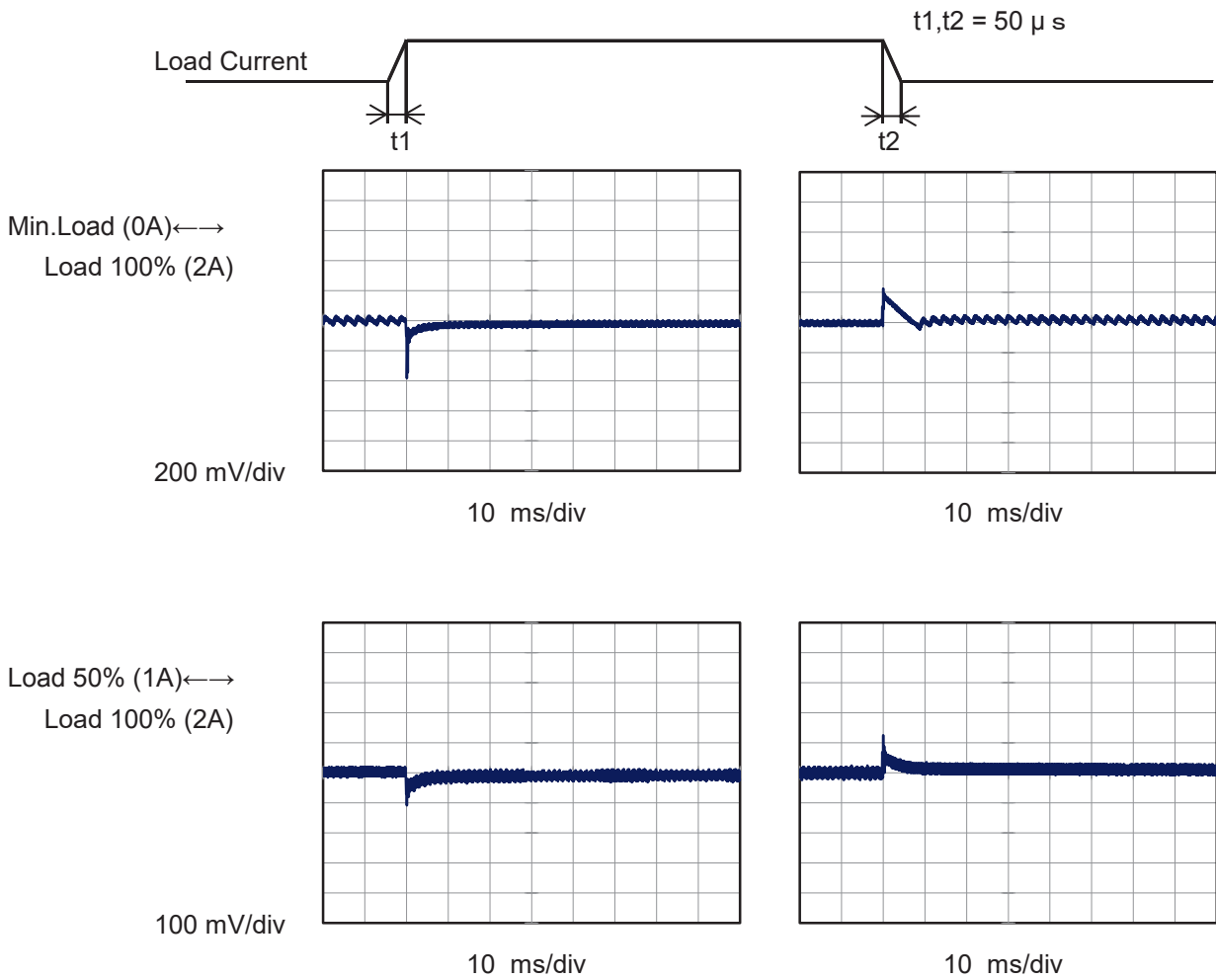
- 7 -

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Model	UMA30F-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+15V2A	

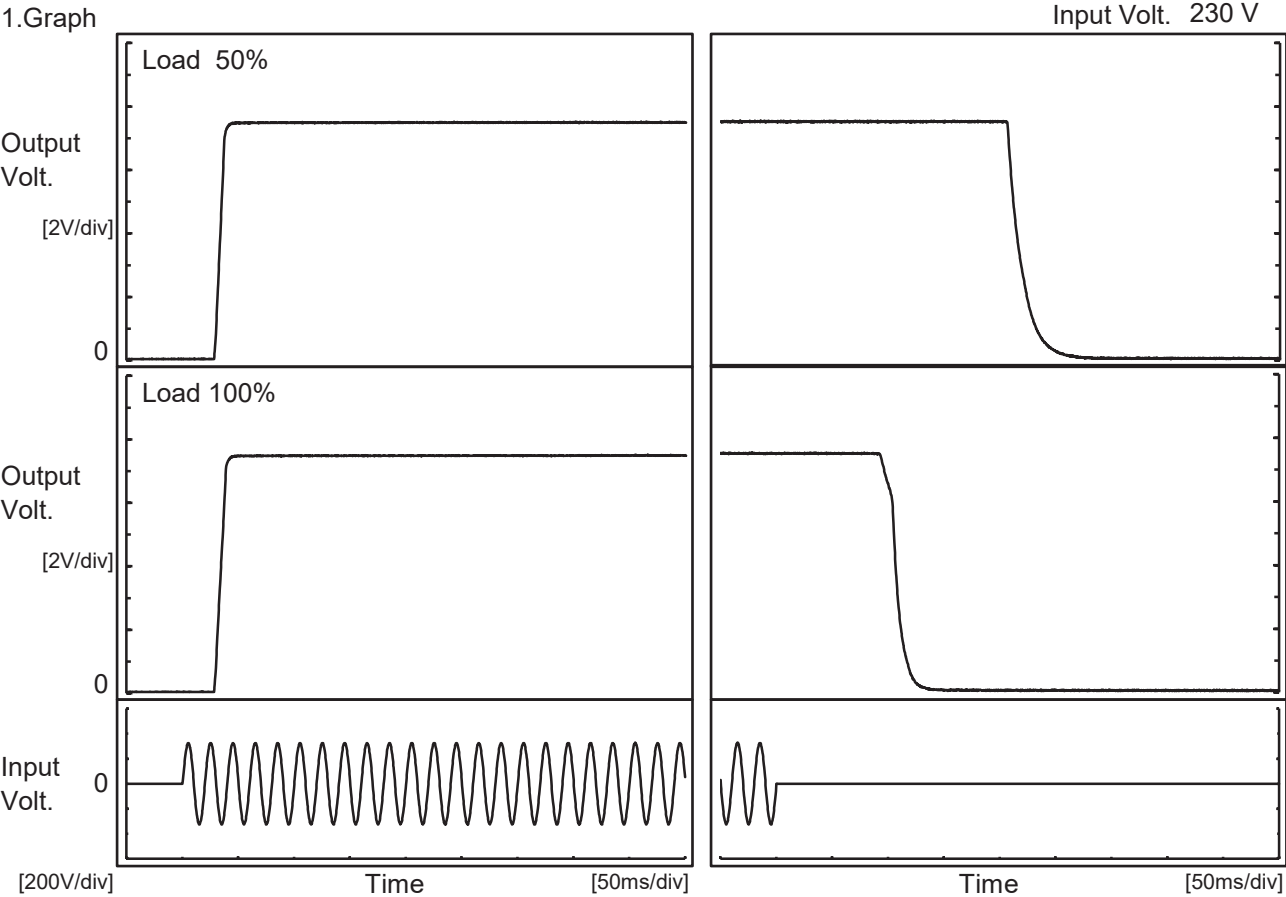
Input Volt. 230 V
Cycle 1000 ms





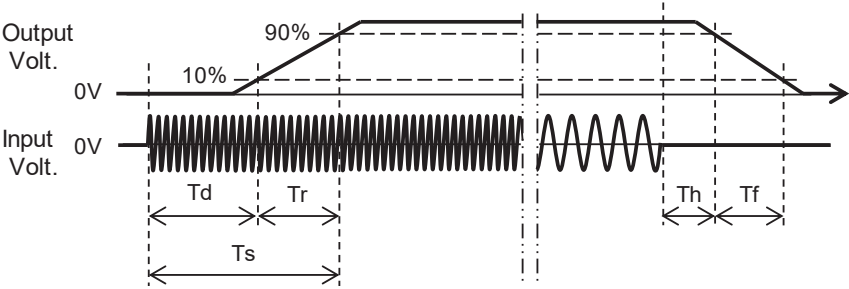
Model	UMA30F-15	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+15V2A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		30.0	7.5	37.5	207.8	27.8
100 %		30.0	8.8	38.8	97.8	20.8





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<div><div>---□--- Load 50%</div><div>—△— Load 100%</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 an increasing trend of hold-up time with increasing input voltage.</p><table><caption>Data points from the graph</caption><tr><th>Input Voltage [V]</th><th>Hold-Up Time [ms] (Load 50%)</th><th>Hold-Up Time [ms] (Load 100%)</th></tr><tr><td>85</td><td>21</td><td>-</td></tr><tr><td>100</td><td>32</td><td>-</td></tr><tr><td>115</td><td>45</td><td>18</td></tr><tr><td>132</td><td>61</td><td>25</td></tr><tr><td>170</td><td>107</td><td>46</td></tr><tr><td>200</td><td>153</td><td>67</td></tr><tr><td>230</td><td>207</td><td>94</td></tr><tr><td>264</td><td>278</td><td>129</td></tr></table></div>			Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)	85	21	-	100	32	-	115	45	18	132	61	25	170	107	46	200	153	67	230	207	94	264	278	129	<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>85</td><td>21</td><td>-</td></tr><tr><td>100</td><td>32</td><td>-</td></tr><tr><td>115</td><td>45</td><td>18</td></tr><tr><td>132</td><td>61</td><td>25</td></tr><tr><td>170</td><td>107</td><td>46</td></tr><tr><td>200</td><td>153</td><td>67</td></tr><tr><td>230</td><td>207</td><td>94</td></tr><tr><td>264</td><td>278</td><td>129</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	21	-	100	32	-	115	45	18	132	61	25	170	107	46	200	153	67	230	207	94	264	278	129	--	-	-
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- 10 -

BC-11934

<div> <div>Model</div> <div>UMA30F-15</div> </div>																																																																																																									
<div>Item</div> <div>Instantaneous Interruption Compensation</div>		<div>Temperature</div> <div>25°C</div>	<div>Testing Circuitry</div> <div>Figure A</div>																																																																																																						
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<div>1.Graph</div> <div> <div>—△—</div> <div>Input Volt. 115V</div> </div> <div> <div>- - □ - -</div> <div>Input Volt. 230V</div> </div> <div> <div>- · · ○ · · -</div> <div>Input Volt. 264V</div> </div>		<div>2.Values</div>																																																																																																							
<div> <div>Instantaneous Compensation Time [ms]</div> <div> <div>1000</div> <div>100</div> <div>10</div> <div>1</div> </div> <div> <div>0.0</div> <div>0.8</div> <div>1.6</div> <div>2.4</div> </div> <div> <div>Load Current [A]</div> </div> </div> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 115[V]</th> <th>Input Volt. 230[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>119</td><td>614</td><td>791</td></tr> <tr><td>0.8</td><td>57</td><td>263</td><td>351</td></tr> <tr><td>1.2</td><td>37</td><td>173</td><td>232</td></tr> <tr><td>1.6</td><td>26</td><td>126</td><td>171</td></tr> <tr><td>2.0</td><td>18</td><td>95</td><td>131</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Load Current [A]	Time [ms]			Input Volt. 115[V]	Input Volt. 230[V]	Input Volt. 264[V]	0.0	-	-	-	0.4	119	614	791	0.8	57	263	351	1.2	37	173	232	1.6	26	126	171	2.0	18	95	131	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr> <tr> <th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>119</td><td>614</td><td>791</td></tr> <tr><td>0.8</td><td>57</td><td>263</td><td>351</td></tr> <tr><td>1.2</td><td>37</td><td>173</td><td>232</td></tr> <tr><td>1.6</td><td>26</td><td>126</td><td>171</td></tr> <tr><td>2.0</td><td>18</td><td>95</td><td>131</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Load Current [A]	Time [ms]			Input Volt. 115[V]	Input Volt. 230[V]	Input Volt. 264[V]	0.0	-	-	-	0.4	119	614	791	0.8	57	263	351	1.2	37	173	232	1.6	26	126	171	2.0	18	95	131	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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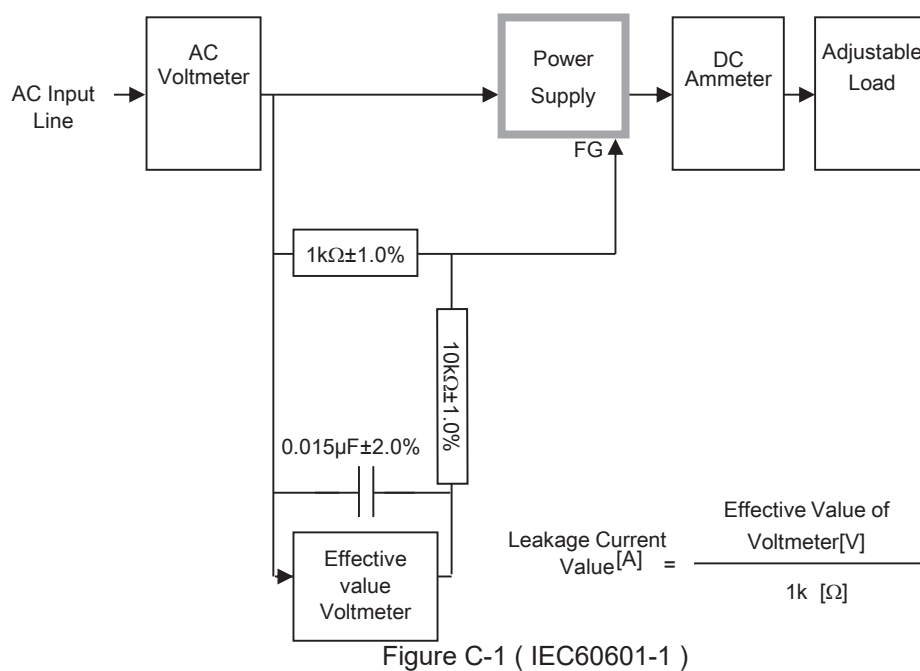
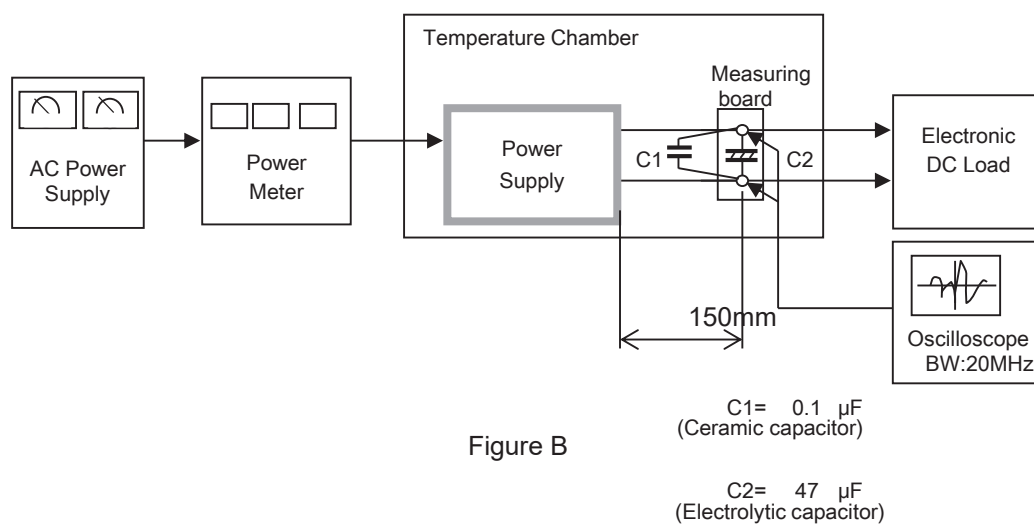
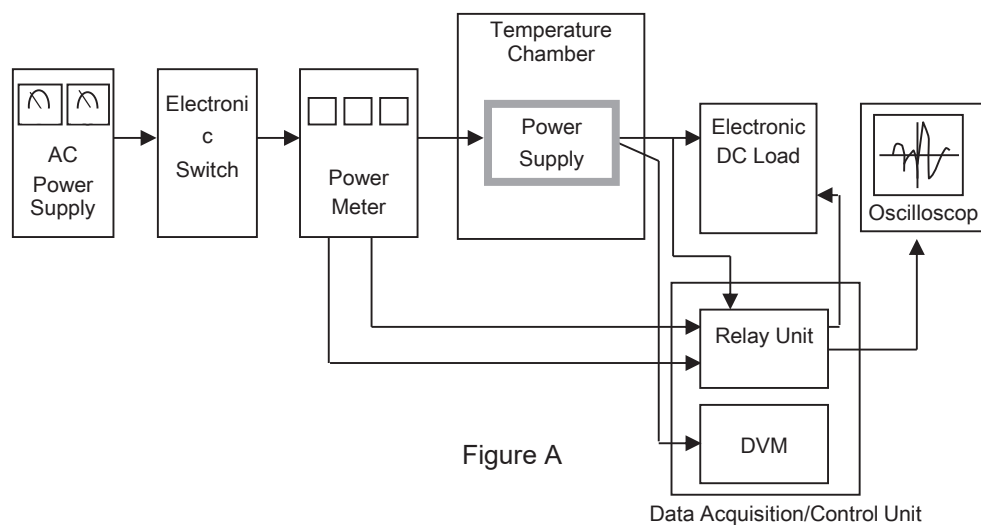
BC-11934



COSEL			
Model	UMA30F-15		
Item	Ambient Temperature Drift	Testing Circuitry Figure A	
Object	+15V2A		
1.Values		Load 100%	
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 115V	Input Volt. 230V	Input Volt. 264V
-20	15.128	15.129	15.130
25	15.174	15.174	15.175
40	15.180	15.179	15.180
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+15V2A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-20	37	67	
25	37	69	
40	36	68	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+15V2A		
1.Values		Load 0%	
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 264V	
-20	18.63	18.63	
25	19.27	19.28	
40	19.38	19.38	

- 13 -

BC-11934



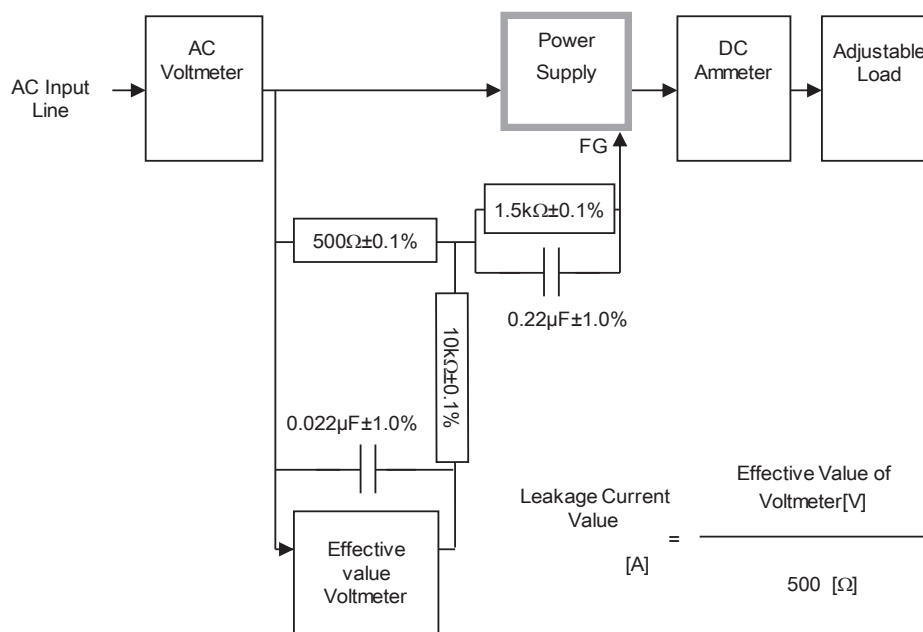


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

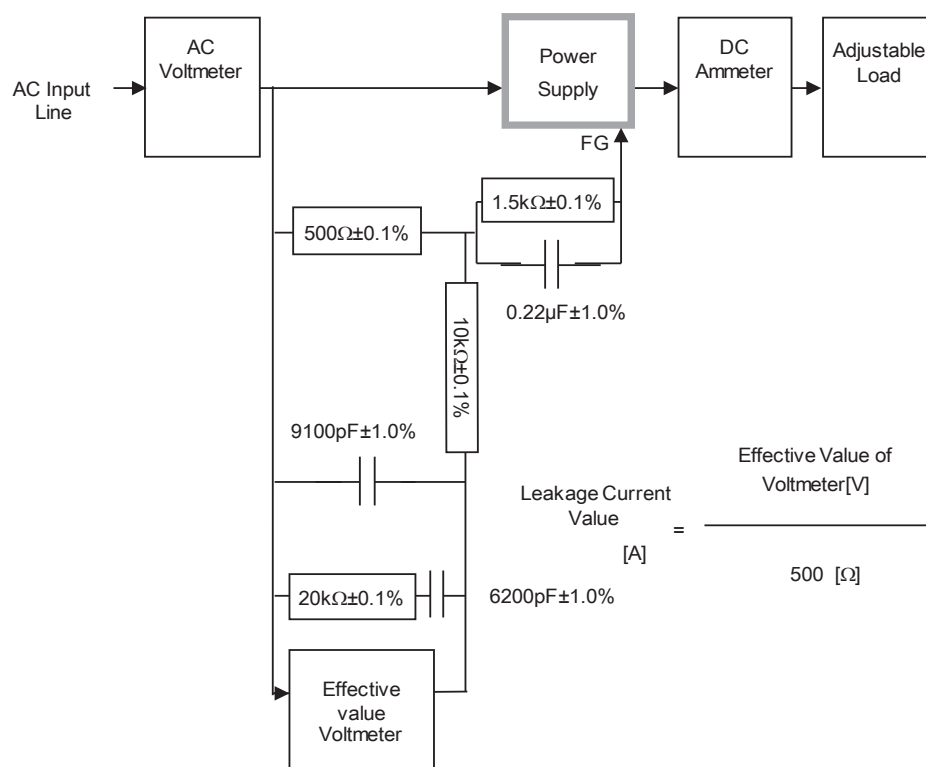


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)