

TEST DATA OF LHP300F-30-Y

Regulated DC Power Supply
April 5, 2021

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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Model		LHP300F-30-Y		Temperature		25°C																																																				
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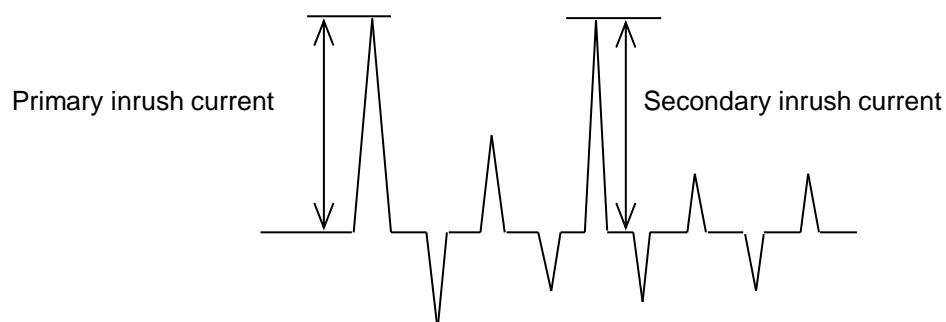
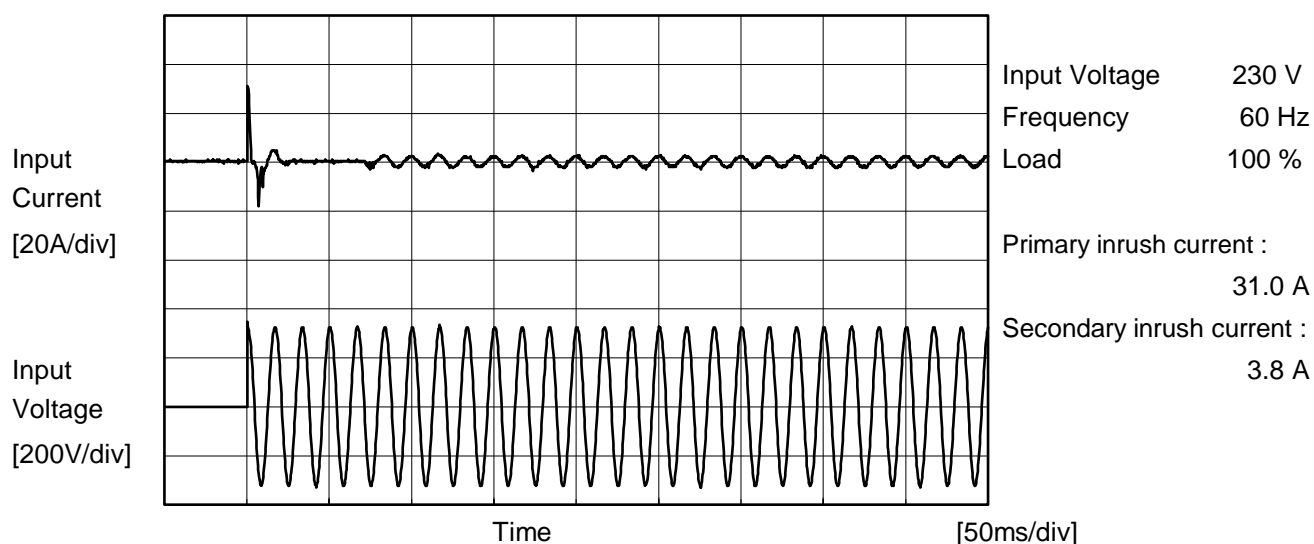
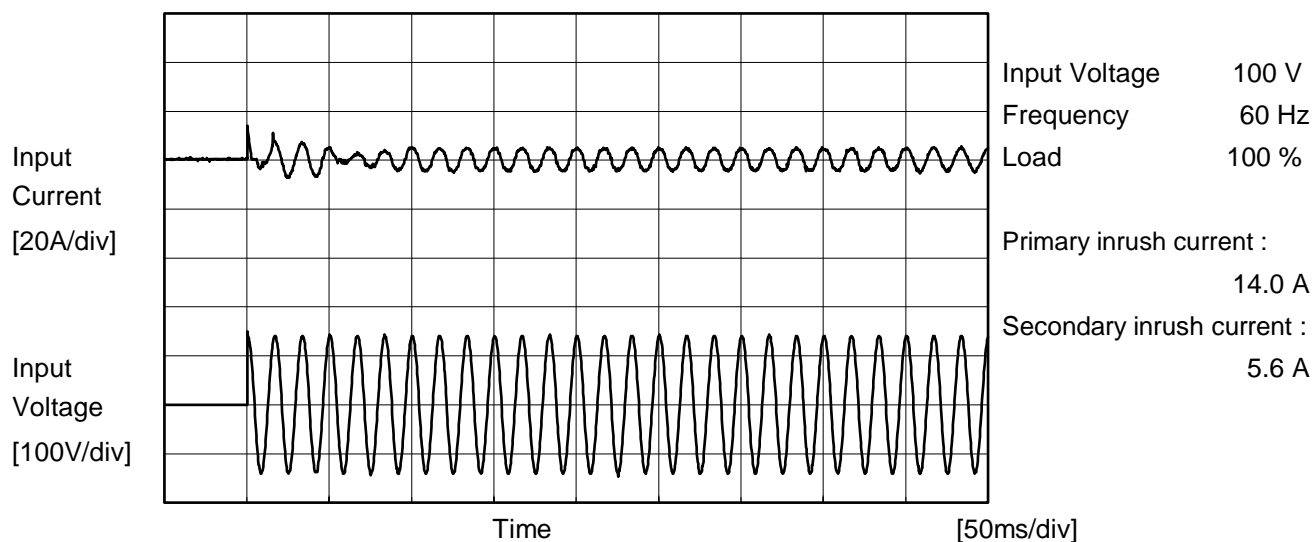


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COSEL

Model	LHP300F-30-Y	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			





		Temperature 25°C Testing Circuitry Figure C
Model	LHP300F-30-Y	
Item	Leakage Current	
Object	_____	

1.Results

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure C-1	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.27	0.65	0.69	Stand by
IEC62368-1	Figure C-2	Both phases	0.14	0.35	0.36	Operation
		One of phases	0.27	0.65	0.68	Stand by
	Figure C-3	Both phases	0.14	0.35	0.37	Operation
		One of phases	0.26	0.65	0.69	Stand by

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

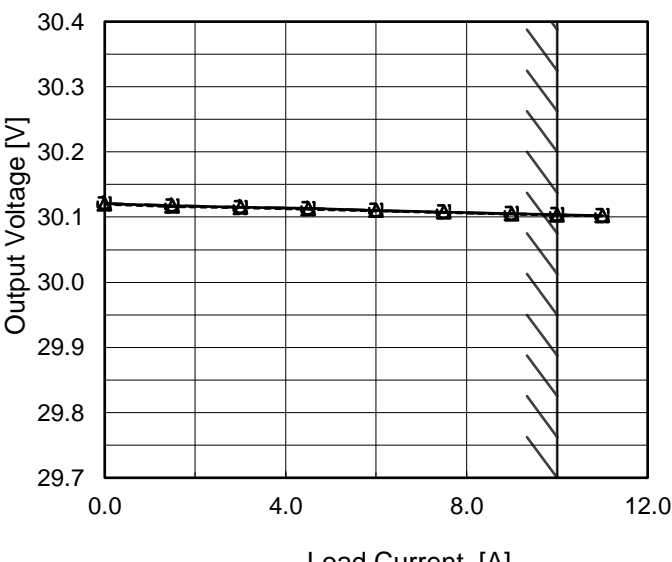
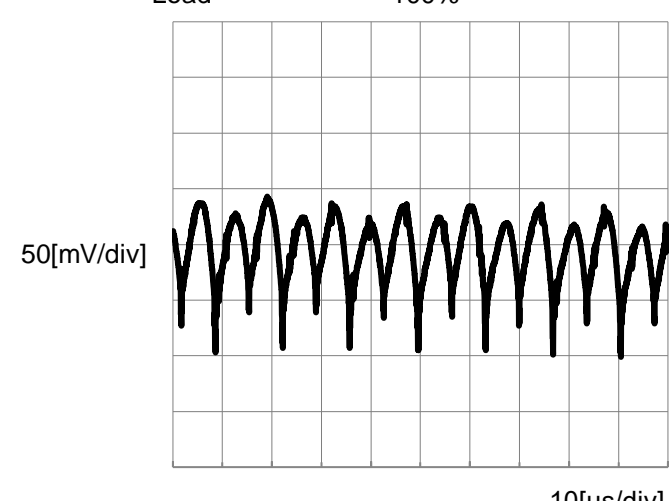
2.Condition

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



Model		LHP300F-30-Y	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+30V10A			
1.Graph			2.Values		
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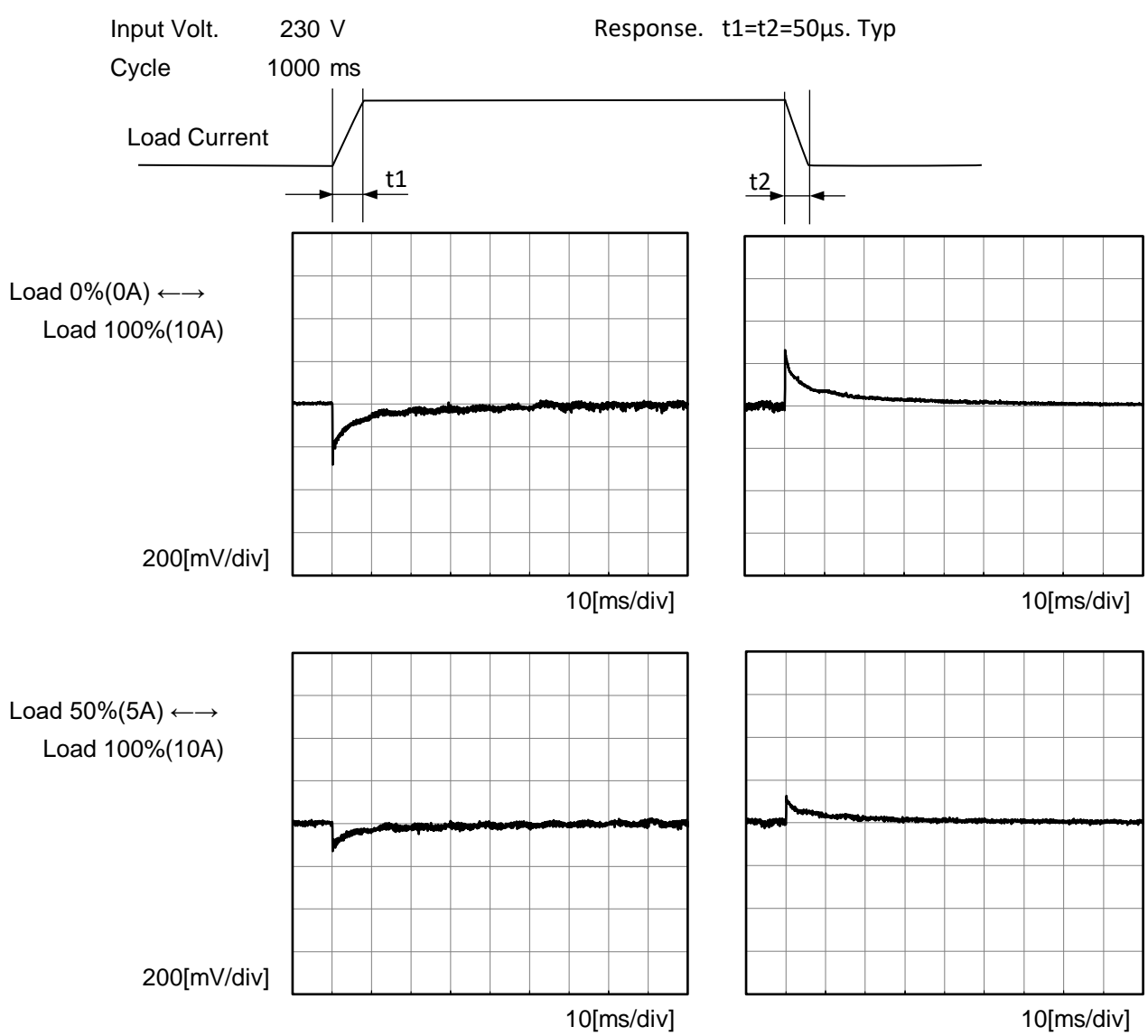
Model		LHP300F-30-Y		Temperature 25°C																																																				
Item		Load Regulation		Testing Circuitry Figure A																																																				
Object		+30V10A																																																						
1.Graph		<div><div><div>—△—</div><div>Input 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>  <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</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>30.121</td><td>30.120</td><td>30.121</td></tr><tr><td>1.5</td><td>30.118</td><td>30.116</td><td>30.118</td></tr><tr><td>3.0</td><td>30.115</td><td>30.114</td><td>30.115</td></tr><tr><td>4.5</td><td>30.113</td><td>30.112</td><td>30.113</td></tr><tr><td>6.0</td><td>30.111</td><td>30.110</td><td>30.110</td></tr><tr><td>7.5</td><td>30.108</td><td>30.107</td><td>30.107</td></tr><tr><td>9.0</td><td>30.105</td><td>30.105</td><td>30.105</td></tr><tr><td>10.0</td><td>30.104</td><td>30.103</td><td>30.104</td></tr><tr><td>11.0</td><td>30.102</td><td>30.102</td><td>30.102</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	30.121	30.120	30.121	1.5	30.118	30.116	30.118	3.0	30.115	30.114	30.115	4.5	30.113	30.112	30.113	6.0	30.111	30.110	30.110	7.5	30.108	30.107	30.107	9.0	30.105	30.105	30.105	10.0	30.104	30.103	30.104	11.0	30.102	30.102	30.102	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	30.121	30.120	30.121																																																					
1.5	30.118	30.116	30.118																																																					
3.0	30.115	30.114	30.115																																																					
4.5	30.113	30.112	30.113																																																					
6.0	30.111	30.110	30.110																																																					
7.5	30.108	30.107	30.107																																																					
9.0	30.105	30.105	30.105																																																					
10.0	30.104	30.103	30.104																																																					
11.0	30.102	30.102	30.102																																																					
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Item		Ripple-Noise		Temperature 25°C																																																				
Object		+30V10A		Testing Circuitry Figure B																																																				
1.Graph		<div><div>Input Voltage 230V</div><div>Load 100%</div></div> 																																																						

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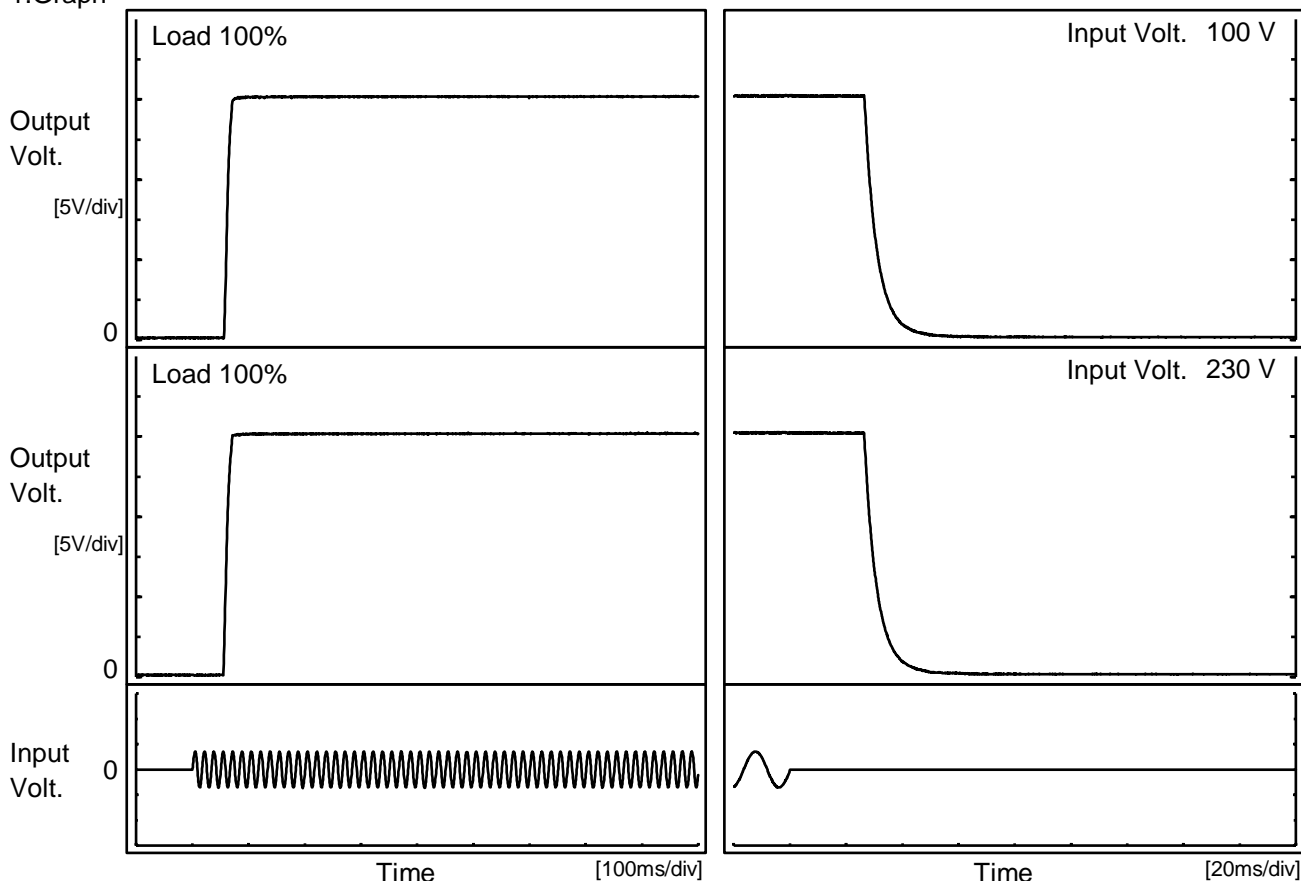


Model	LHP300F-30-Y		
Item	Dynamic Load Response	Temperature	25°C
Object	+30V10A	Testing Circuitry	Figure A



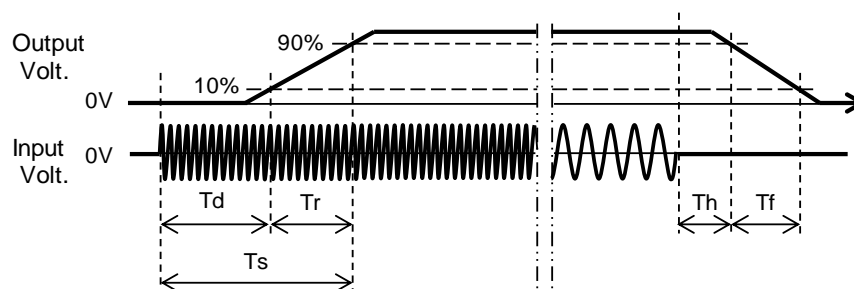
Model	LHP300F-30-Y		
Item	Rise and Fall Time	Temperature	25°C
Object	+30V10A	Testing Circuitry	Figure A

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		58.0	11.0	69.0	26.9	10.1
230 V		57.0	11.0	68.0	26.9	10.0



Model		LHP300F-30-Y	Temperature25°C Testing CircuitryFigure A																															
Item		Hold-Up Time																																
Object		+30V10A																																
1.Graph			2.Values																															
<div><div><div><div><div></div><div></div></div><div></div><div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div><div><div><div>Hold-Up Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div><div>Input Voltage [V]</div></div></div></div> <div><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></div>																																		
<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>52</td><td>27</td></tr><tr><td>90</td><td>52</td><td>27</td></tr><tr><td>100</td><td>52</td><td>27</td></tr><tr><td>120</td><td>52</td><td>27</td></tr><tr><td>200</td><td>51</td><td>27</td></tr><tr><td>230</td><td>51</td><td>27</td></tr><tr><td>264</td><td>59</td><td>30</td></tr><tr><td>280</td><td>60</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>			Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	52	27	90	52	27	100	52	27	120	52	27	200	51	27	230	51	27	264	59	30	280	60	30	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																	
	Load 50%	Load 100%																																
85	52	27																																
90	52	27																																
100	52	27																																
120	52	27																																
200	51	27																																
230	51	27																																
264	59	30																																
280	60	30																																
--	-	-																																

Model	LHP300F-30-Y		
Item	Instantaneous Interruption Compensation	Temperature	25°C
Object	+30V10A	Testing Circuitry	Figure A
<p>1.Graph</p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> </p>			



Model		LHP300F-30-Y	Temperature Testing Circuitry	25°C Figure A																																															
Item		Overcurrent Protection																																																	
Object		+30V10A																																																	
1.Graph			2.Values																																																
<div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Overcurrent protection is Hiccup mode.</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. 230[V]</th></tr><tr><td>30</td><td>28.09</td><td>28.08</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><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. 230[V]	30	28.09	28.08	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																																		
	Input Volt. 100[V]	Input Volt. 230[V]																																																	
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		Testing Circuitry Figure A	
Model	LHP300F-30-Y		
Item	Ambient Temperature Drift		
Object	+30V10A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-10	29.986	29.986	29.986
25	30.095	30.094	30.095
50	30.159	30.159	30.159
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+30V10A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	74	75	
25	74	75	
50	75	75	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+30V10A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 230V	
-10	37.44	37.44	
25	38.44	38.56	
50	39.38	39.38	

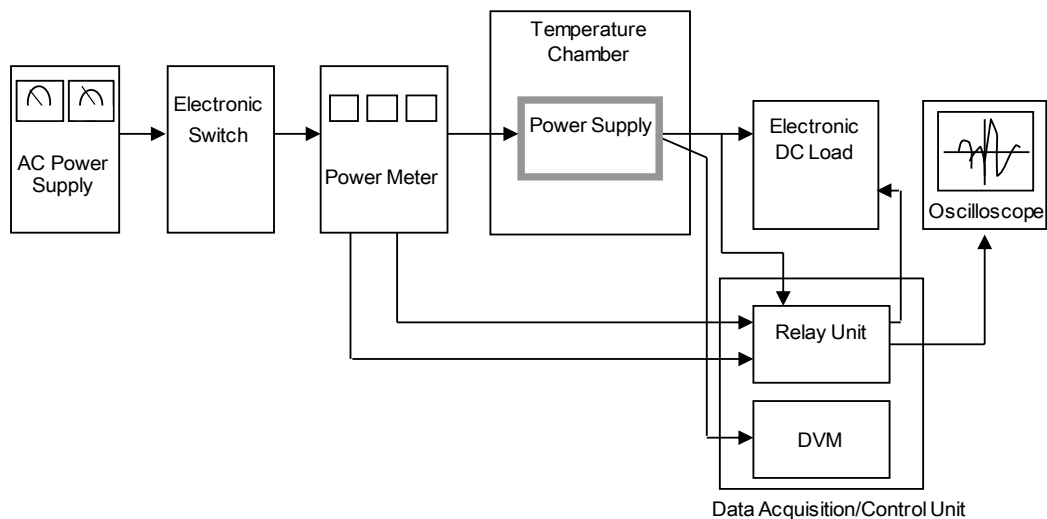


Figure A

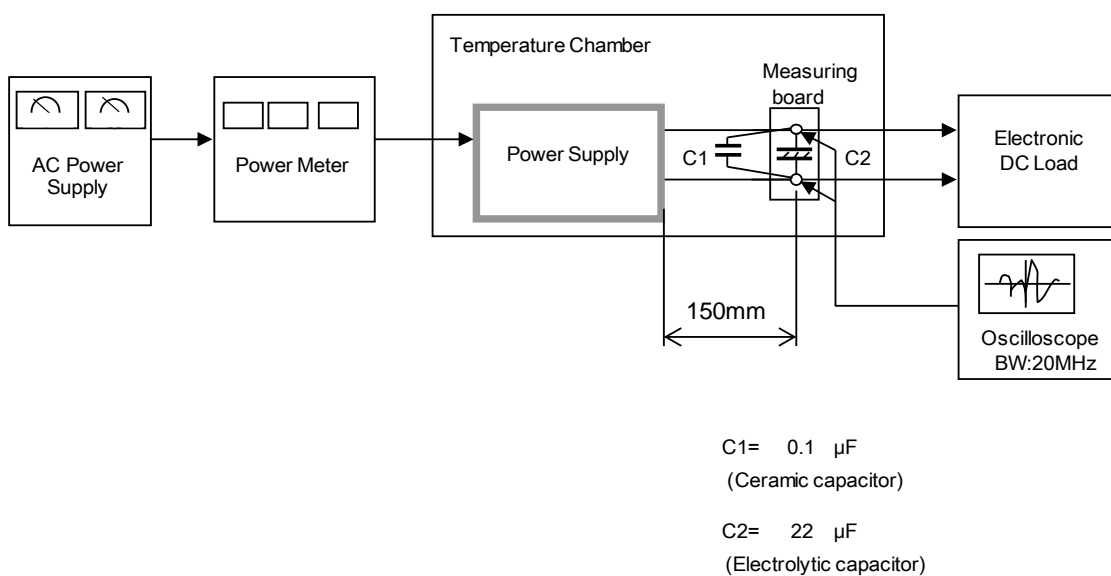


Figure B

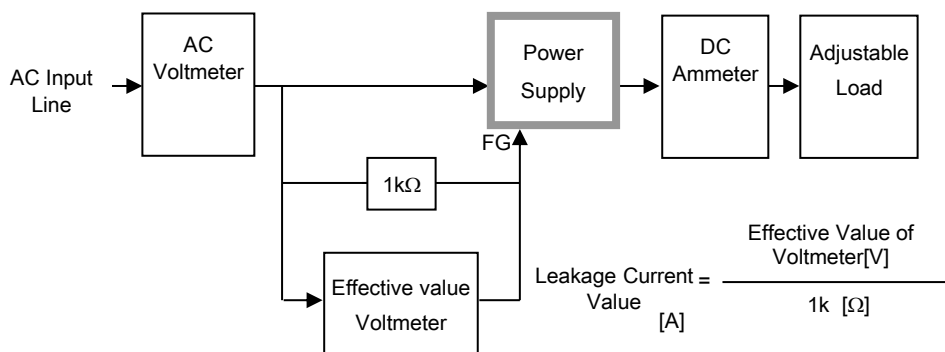


Figure C-1 (DEN-AN)

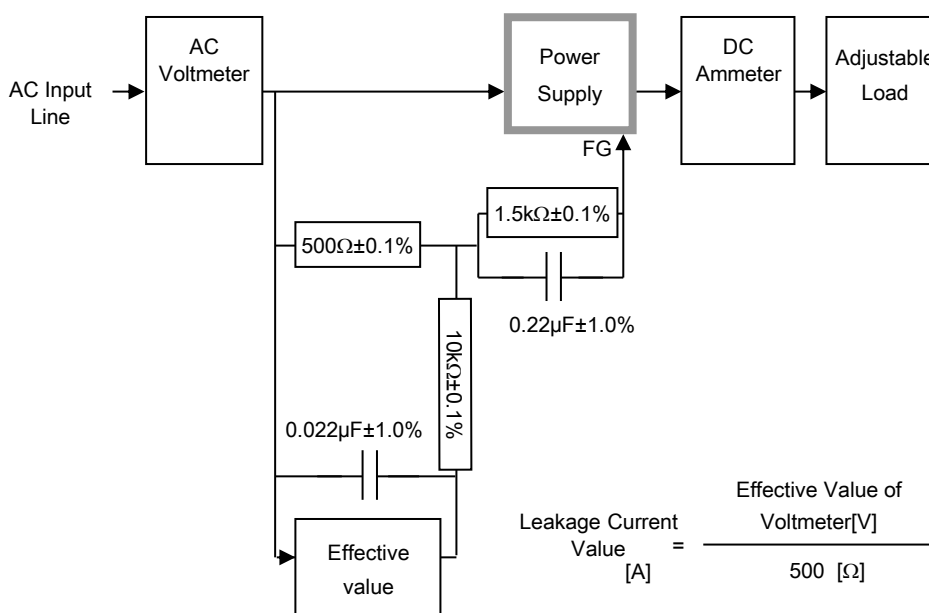


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

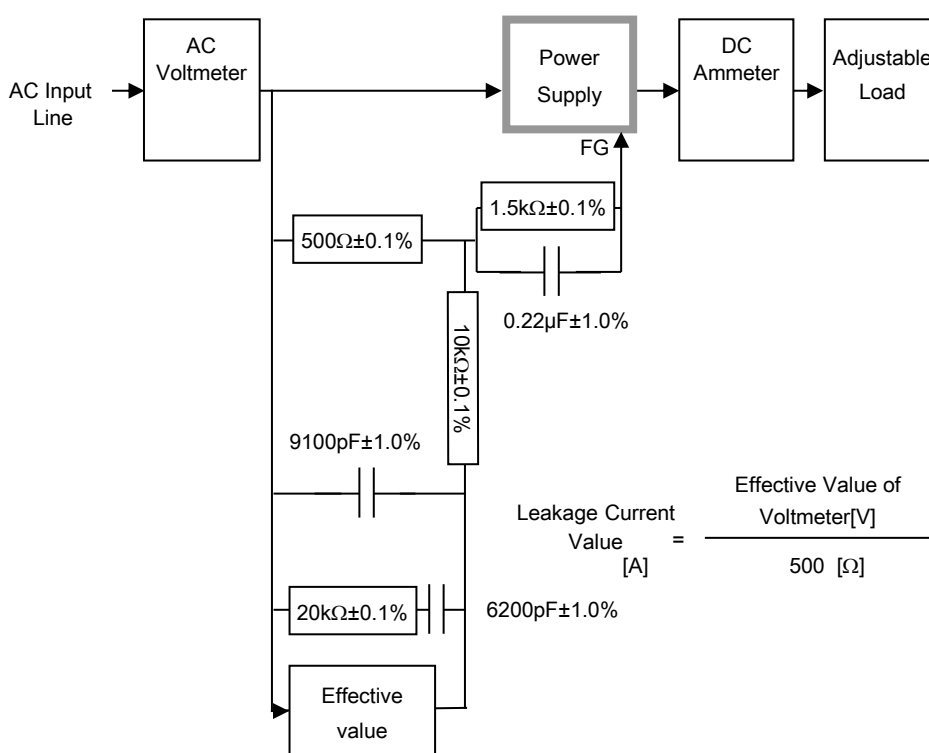


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)