

TEST DATA OF LHP300F-42-Y

Regulated DC Power Supply
April 5, 2021

Approved by : Junya Kaneda
Design Manager

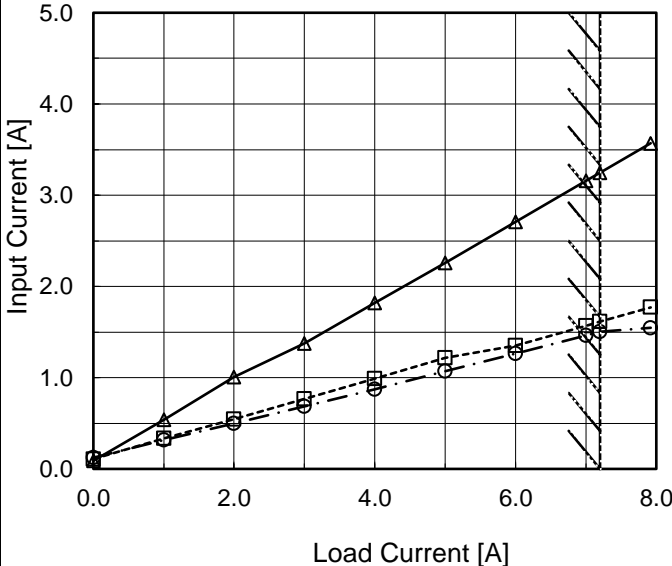
Prepared by : Yasushi Fukumura
Design Engineer

COSEL CO.,LTD.

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Model		LHP300F-42-Y		Temperature 25°C																																																				
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<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> 				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.089</td><td>0.109</td><td>0.124</td></tr><tr><td>1.00</td><td>0.540</td><td>0.333</td><td>0.319</td></tr><tr><td>2.00</td><td>1.008</td><td>0.547</td><td>0.499</td></tr><tr><td>3.00</td><td>1.375</td><td>0.767</td><td>0.683</td></tr><tr><td>4.00</td><td>1.820</td><td>0.989</td><td>0.875</td></tr><tr><td>5.00</td><td>2.260</td><td>1.217</td><td>1.069</td></tr><tr><td>6.00</td><td>2.707</td><td>1.352</td><td>1.264</td></tr><tr><td>7.00</td><td>3.156</td><td>1.570</td><td>1.461</td></tr><tr><td>7.20</td><td>3.246</td><td>1.613</td><td>1.504</td></tr><tr><td>7.92</td><td>3.570</td><td>1.770</td><td>1.547</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	0.089	0.109	0.124	1.00	0.540	0.333	0.319	2.00	1.008	0.547	0.499	3.00	1.375	0.767	0.683	4.00	1.820	0.989	0.875	5.00	2.260	1.217	1.069	6.00	2.707	1.352	1.264	7.00	3.156	1.570	1.461	7.20	3.246	1.613	1.504	7.92	3.570	1.770	1.547	--	-	-	-
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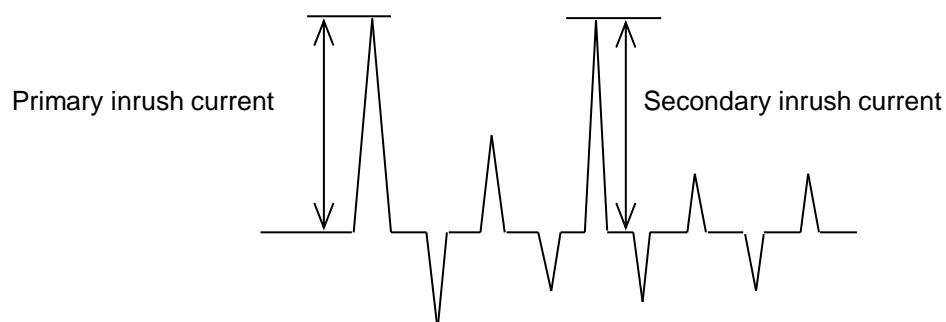
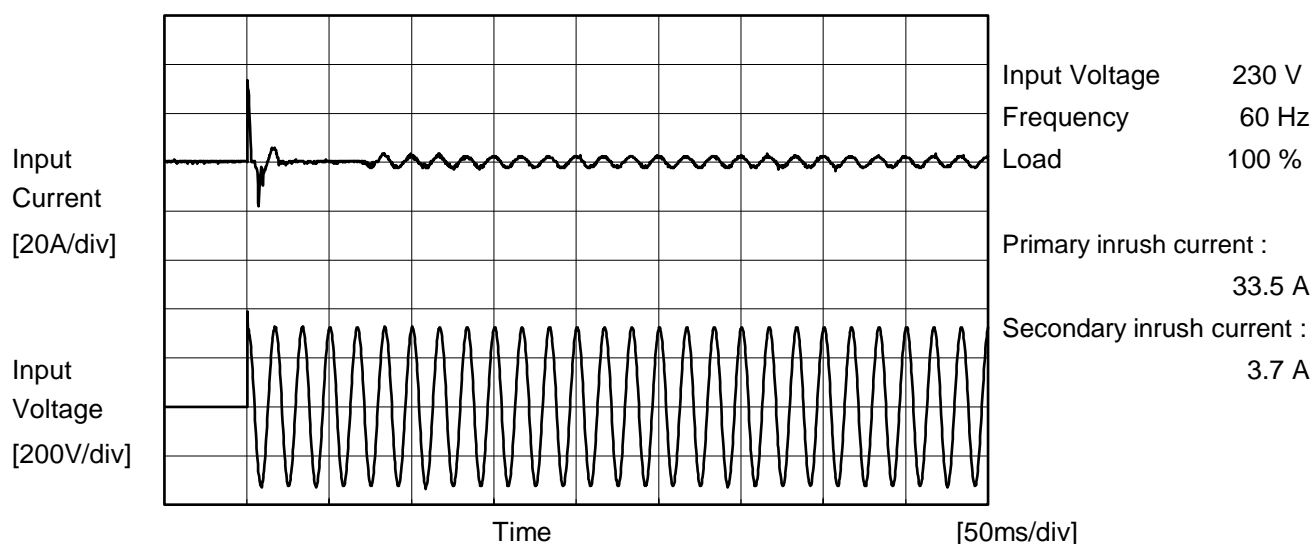
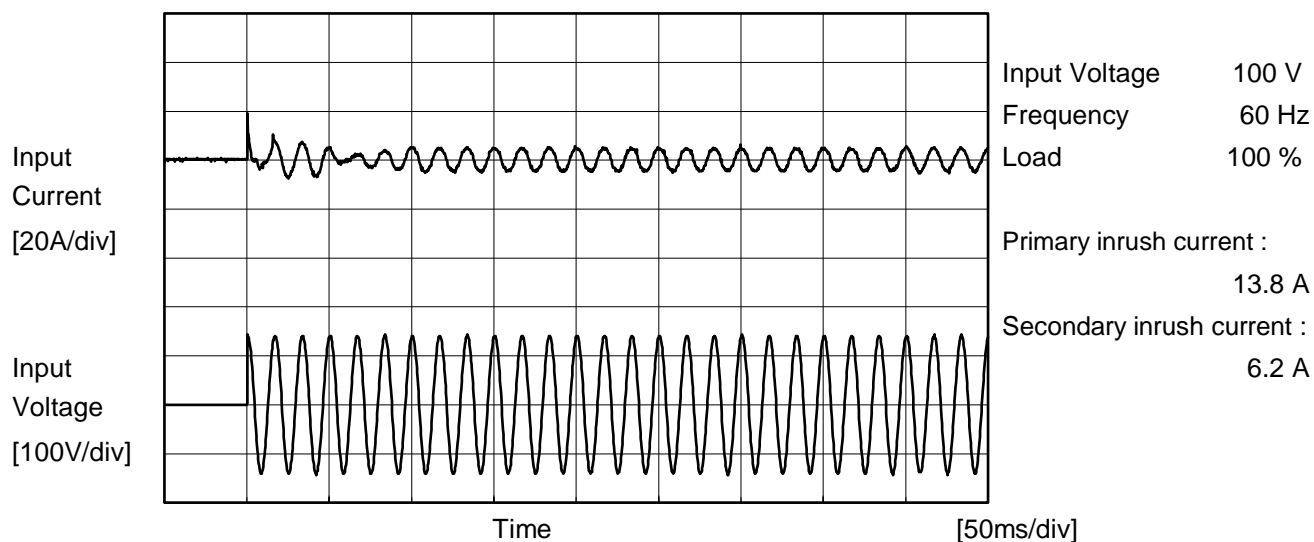


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Model	LHP300F-42-Y	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			





		Temperature 25°C Testing Circuitry Figure C
Model	LHP300F-42-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

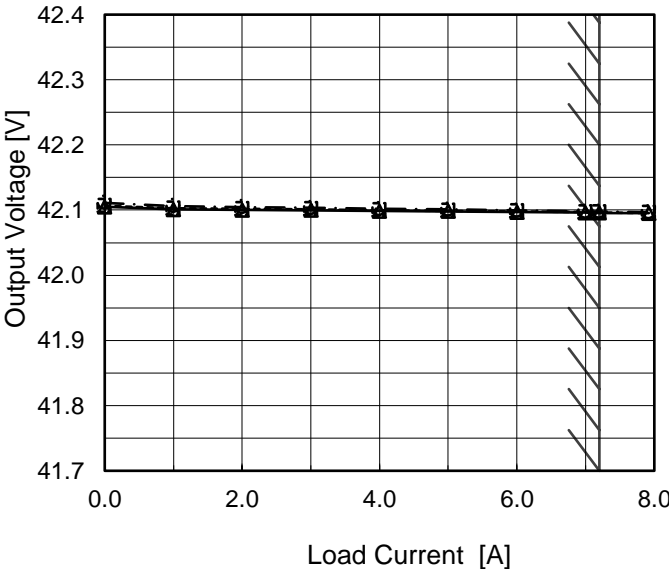
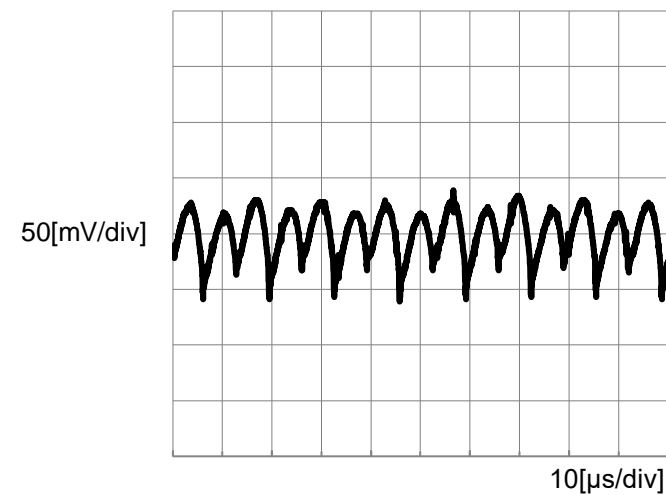
The value for "One of phases" is the reference value only.

2.Condition

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



Model		LHP300F-42-Y	Temperature		25°C																														
Item		Line Regulation	Testing Circuitry		Figure A																														
Object		+42V7.2A																																	
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<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>85</td><td>42.088</td><td>42.084</td></tr><tr><td>90</td><td>42.090</td><td>42.086</td></tr><tr><td>100</td><td>42.092</td><td>42.089</td></tr><tr><td>120</td><td>42.093</td><td>42.089</td></tr><tr><td>200</td><td>42.088</td><td>42.085</td></tr><tr><td>230</td><td>42.090</td><td>42.087</td></tr><tr><td>264</td><td>42.092</td><td>42.089</td></tr><tr><td>280</td><td>42.093</td><td>42.090</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>			Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	85	42.088	42.084	90	42.090	42.086	100	42.092	42.089	120	42.093	42.089	200	42.088	42.085	230	42.090	42.087	264	42.092	42.089	280	42.093	42.090	--	-	-			
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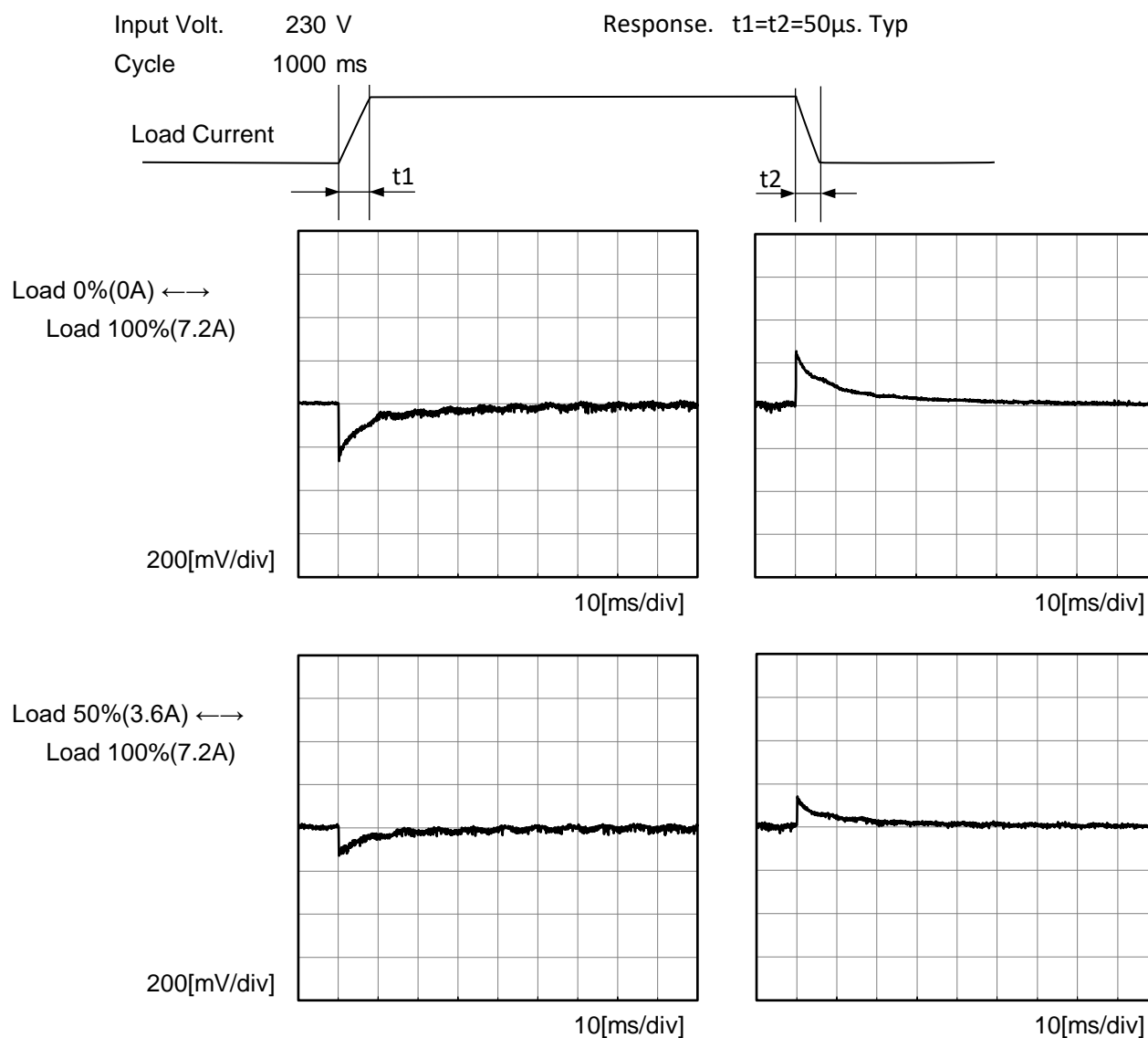
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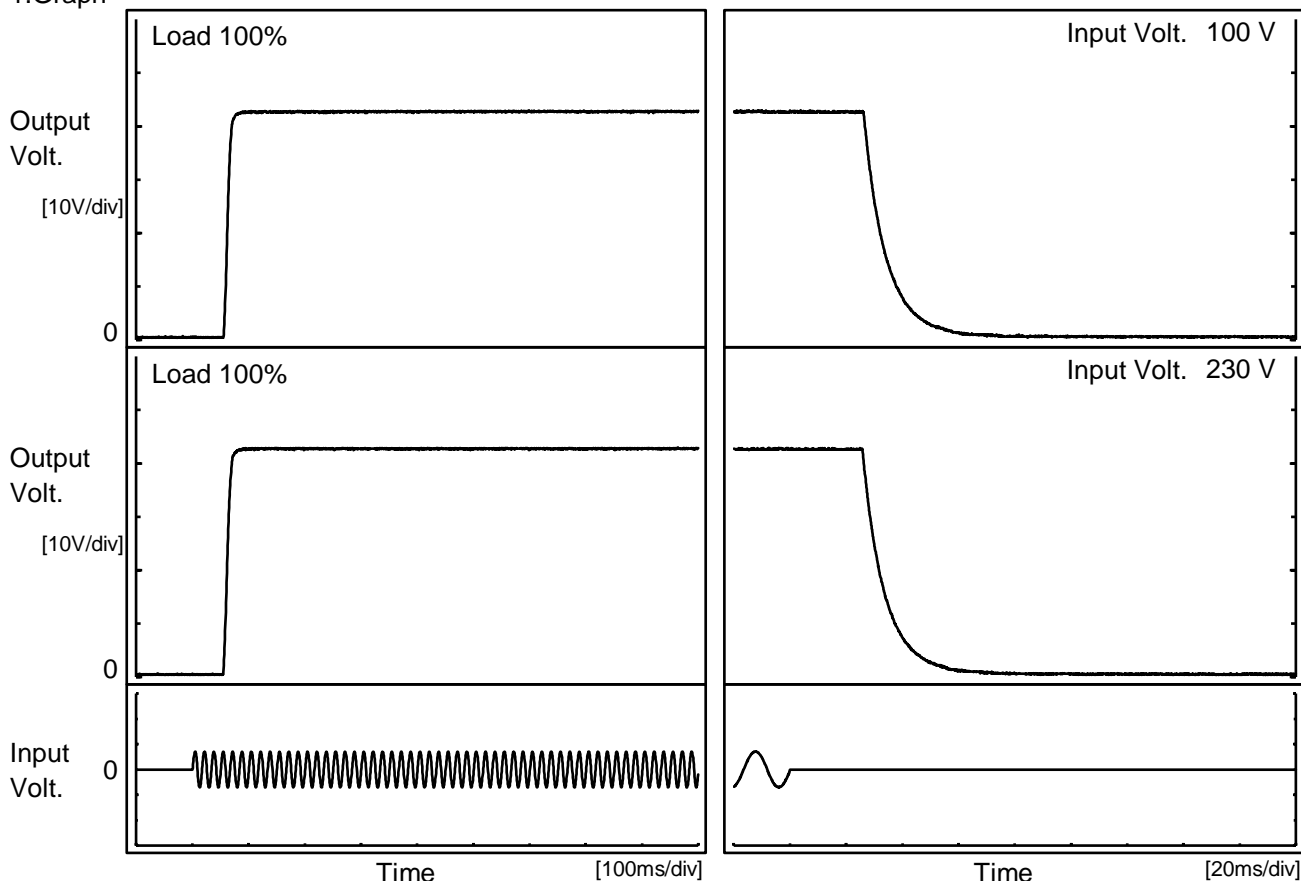


Model	LHP300F-42-Y		
Item	Dynamic Load Response	Temperature	25°C
Object	+42V7.2A	Testing Circuitry	Figure A



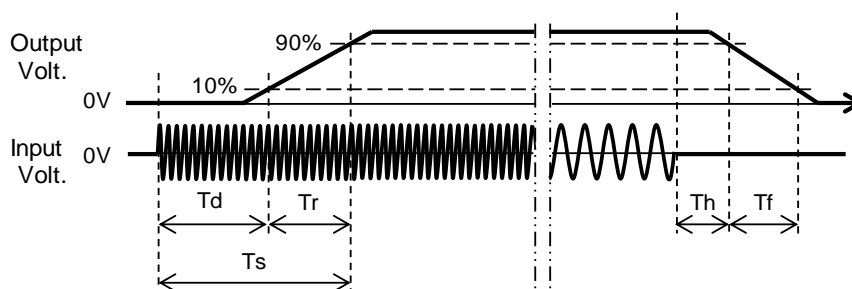
Model	LHP300F-42-Y	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+42V7.2A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		58.0	11.0	69.0	27.0	18.0
230 V		57.5	11.5	69.0	26.6	17.8



Model

LHP300F-42-Y

Item

Hold-Up Time

Object

+42V7.2A

1.Graph

---□---

Load 50%

—△—

Load 100%

Hold-Up Time [ms]

1000

100

10

1

50

100

150

200

250

300

Input Voltage [V]

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

Temperature

25°C

Testing Circuitry

Figure A

2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	51	26
90	51	26
95	51	26
100	51	26
120	51	26
200	50	26
230	50	26
264	59	30
280	59	31

Model	LHP300F-42-Y		
Item	Instantaneous Interruption Compensation	Temperature	25°C
Object	+42V7.2A	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-42-Y		Temperature Testing Circuitry	25°C Figure A																																															
Item		Overcurrent Protection																																																		
Object		+42V7.2A																																																		
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>42</td><td>23.78</td><td>23.77</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]	42	23.78	23.77	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																																			
	Input Volt. 100[V]	Input Volt. 230[V]																																																		
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		Testing Circuitry Figure A	
Model	LHP300F-42-Y		
Item	Ambient Temperature Drift		
Object	+42V7.2A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-10	41.904	41.904	41.905
25	42.086	42.086	42.087
50	42.179	42.179	42.179
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+42V7.2A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	74	75	
25	75	75	
50	75	75	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+42V7.2A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 230V	
-10	51.57	51.57	
25	53.44	53.44	
50	54.55	54.55	

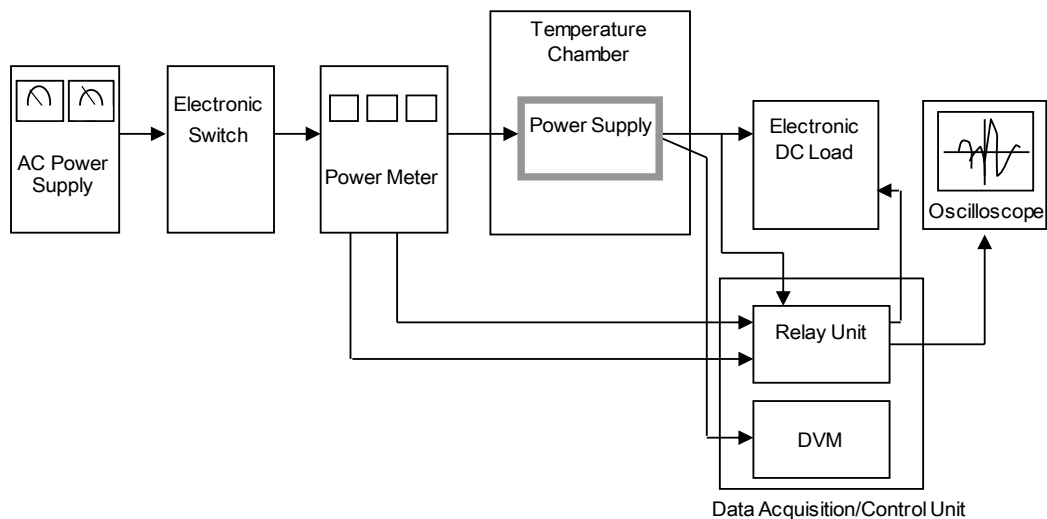


Figure A

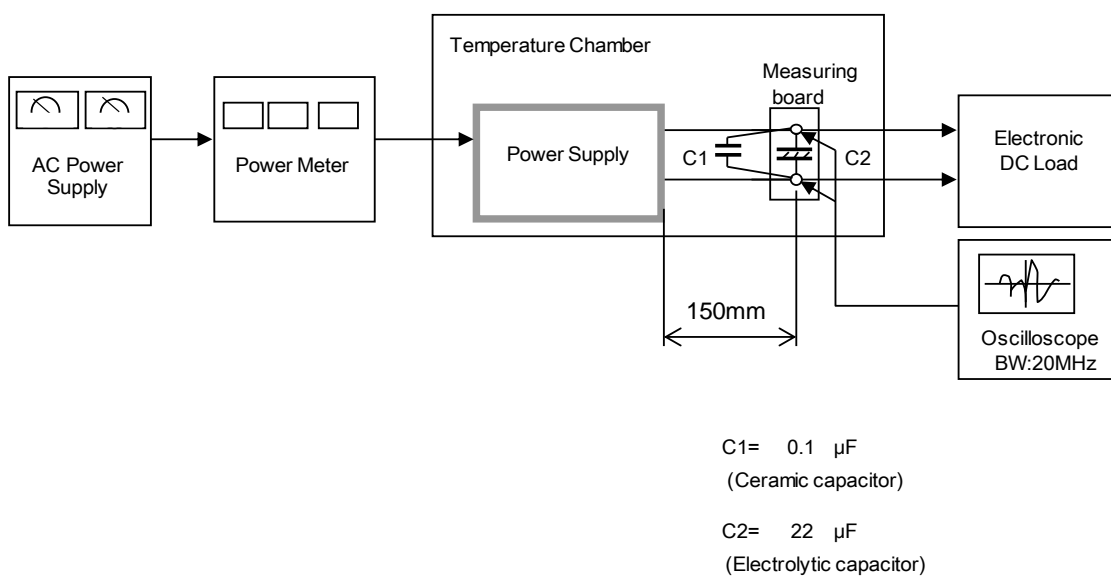


Figure B

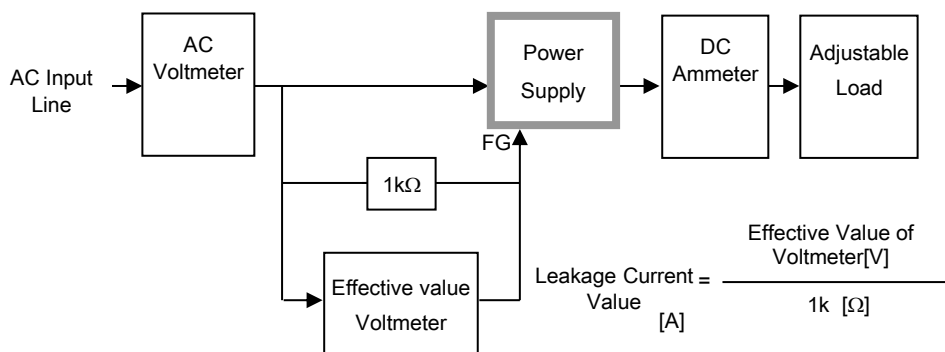


Figure C-1 (DEN-AN)

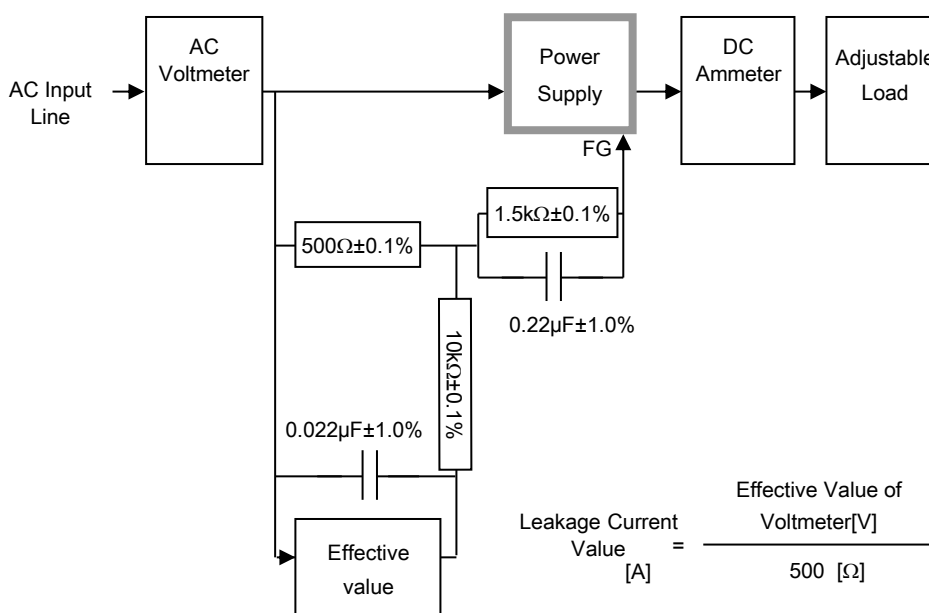


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

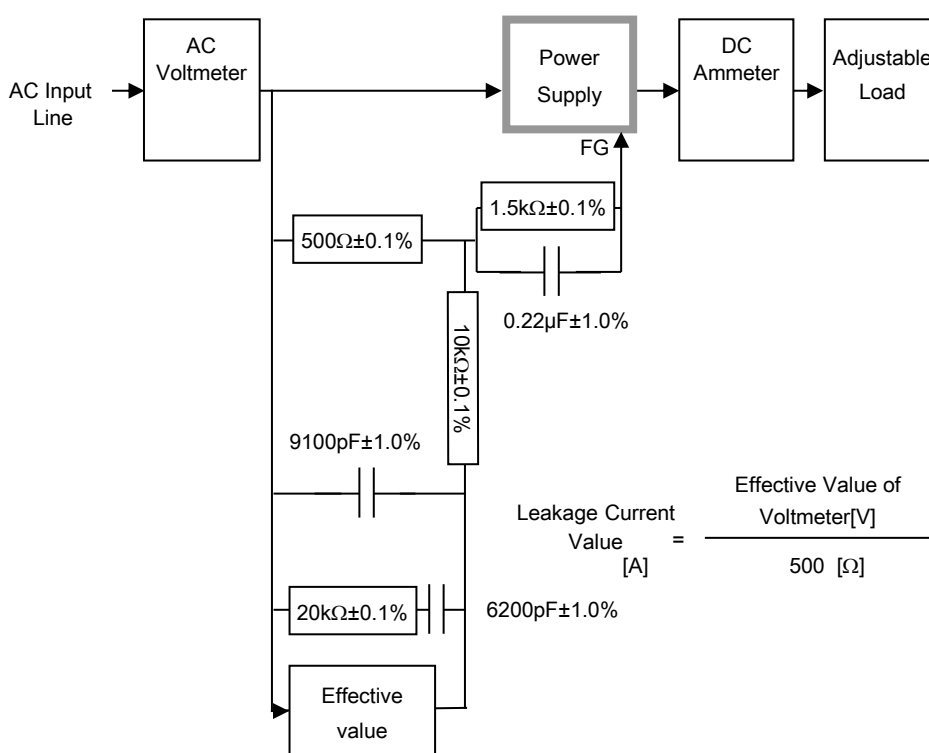


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)