



PSU test report

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bwa@xdevelop.at

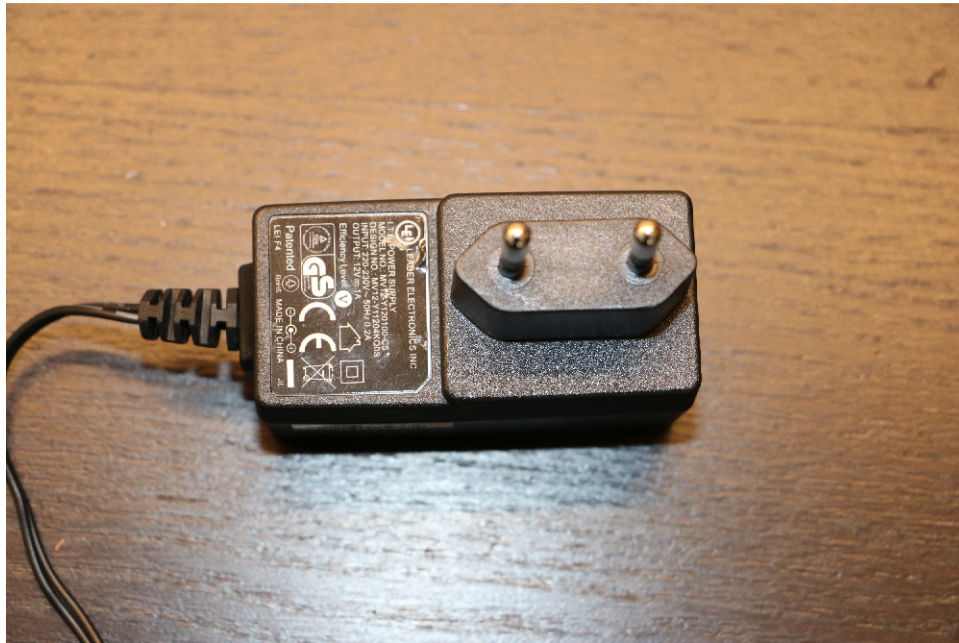
1 Contents

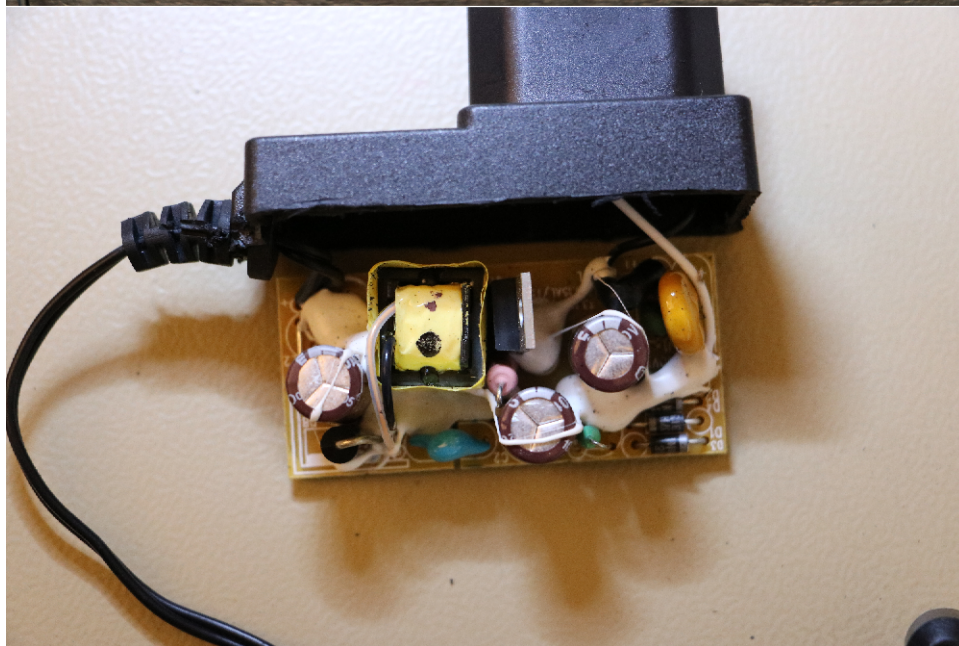
- General information
- Point of operation
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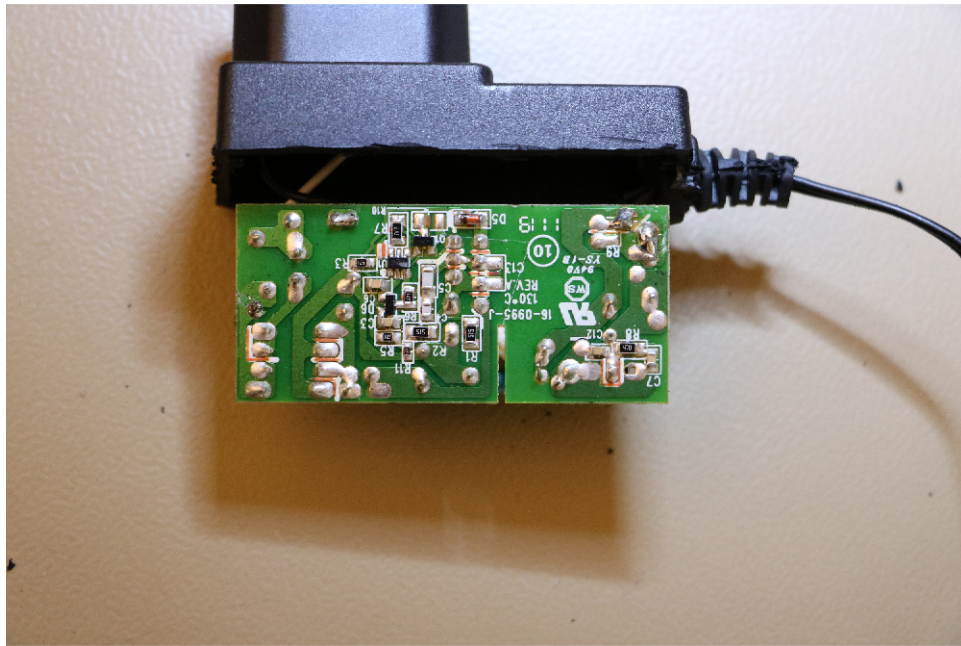
2 General information

Testing the following device

Manufacturer: LEI
Device name: MV12-Y120100C5
Serial number: 5
Nominal voltage: 12.000V
Nominal current: 1.000A
Tester: Bernhard Woerndl-Aichriedler <bwa@xdevelop.at>
Start time: 12-Jul-2016 16:07:22





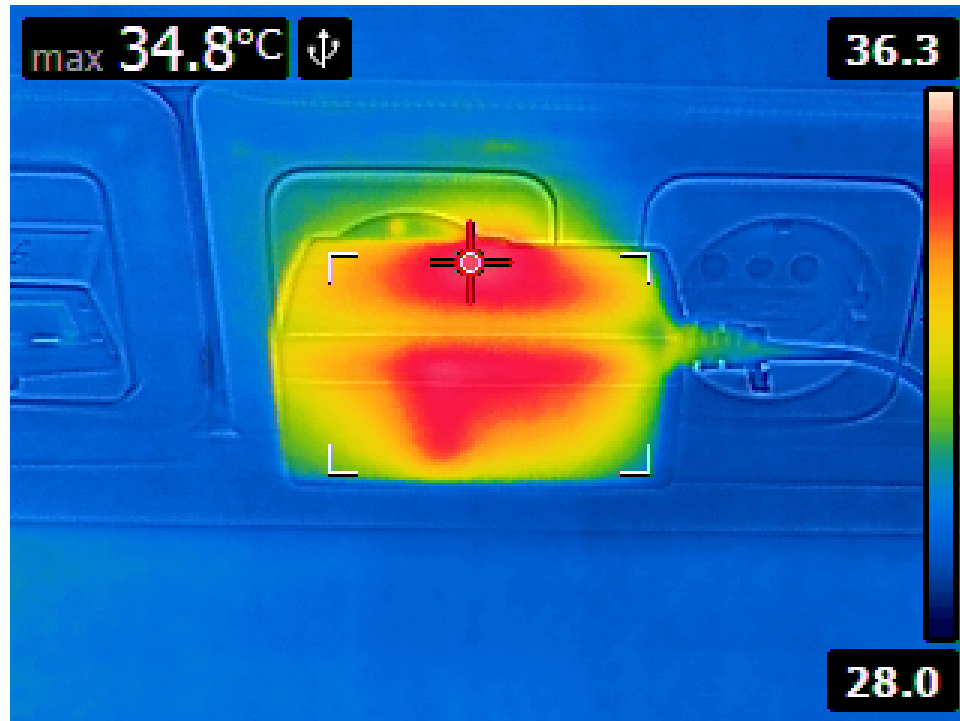


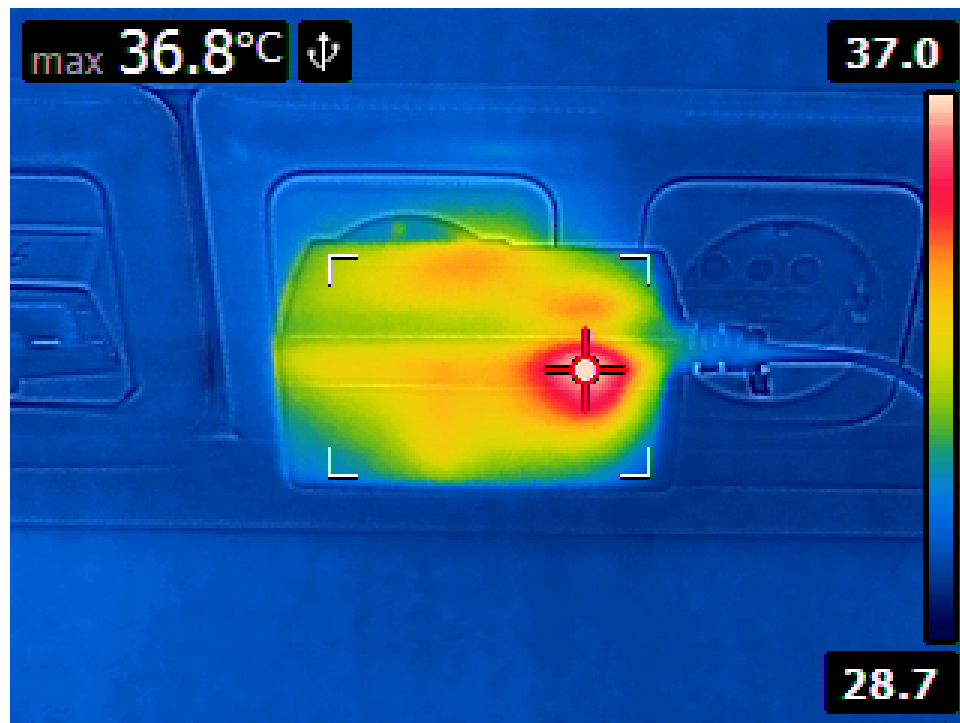
3 Point of operation

The test has been conducted with the following conditions

Voltage/Frequency: 230V-50Hz

Ambient Temperature: 32.40C





4 Standby power consumption

Voltage: 230.61V

Frequency: 50Hz

Current: 0.003035A

P active: 0.126W

P apparent: 0.700VA

P reactive: 0.688VAR

P factor: 0.181

Output voltage: 14.026V



5 Load testing

Characteristics

Voltage: 230.60V

Frequency: 50Hz

Loads: 0.000A to 1.100A

Minimum output voltage: 12.158V

Maximum output voltage: 14.048V

Regulation error absolute: -0.158V/+2.048V

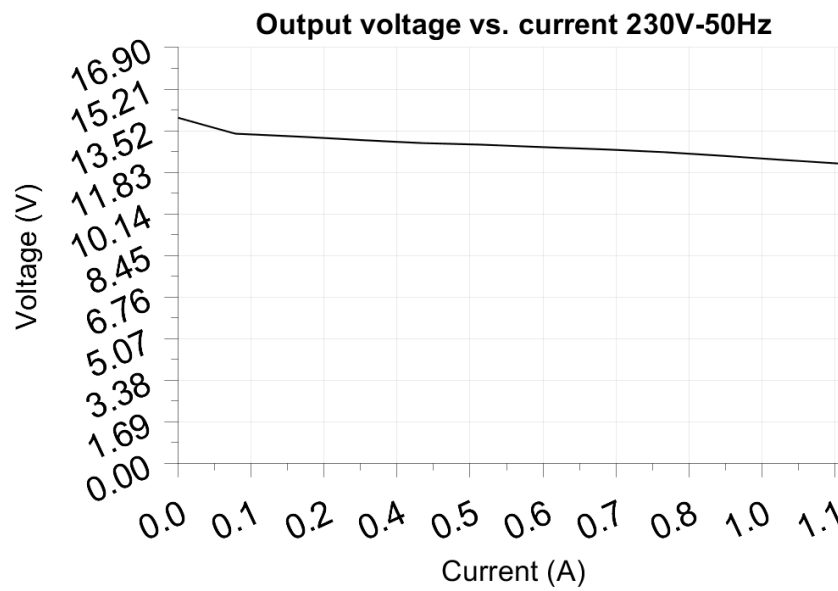
Regulation error relative: -1.3%/+17.1%

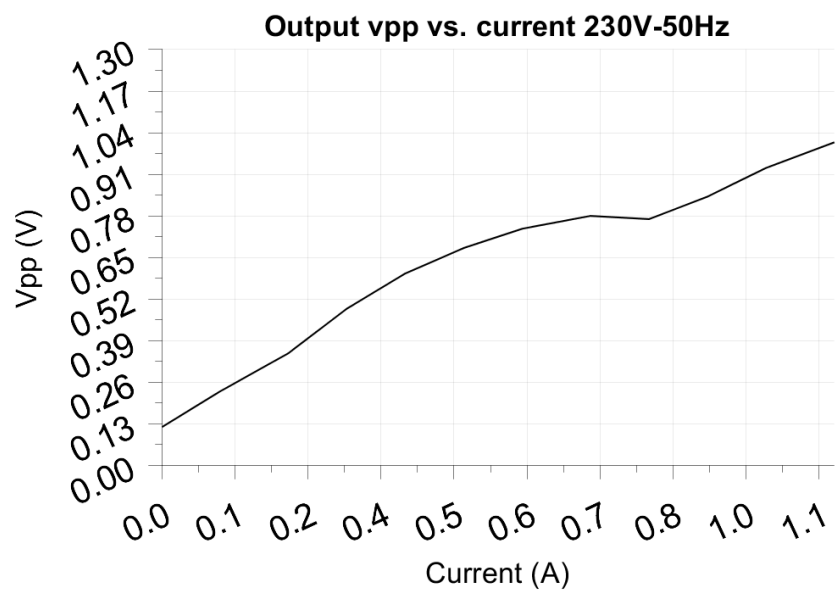
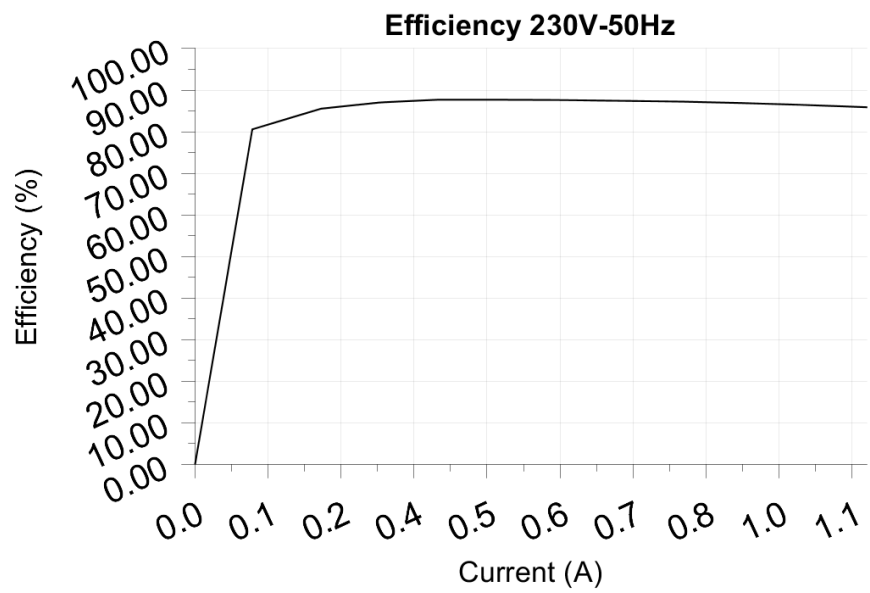
Vpp ripple&noise absolute: 1.010V

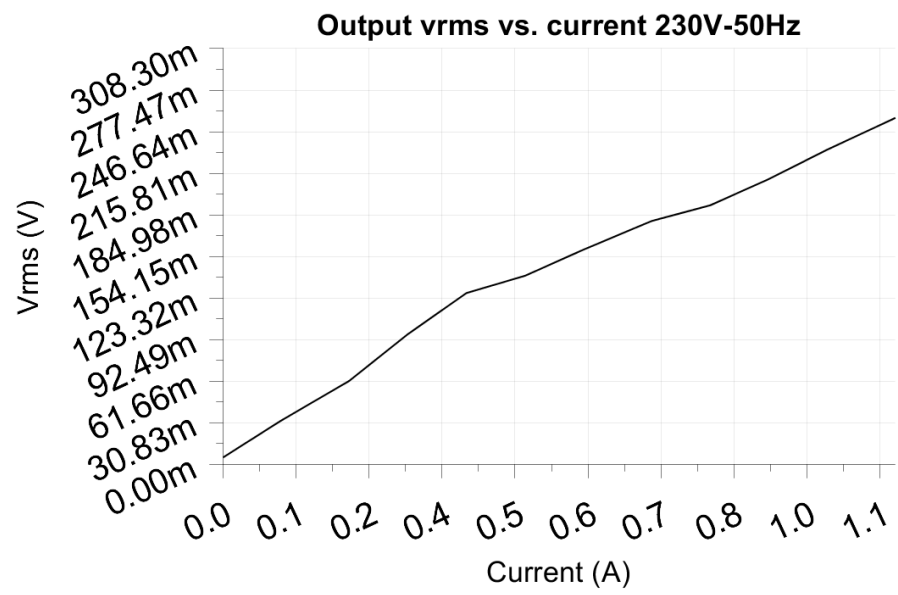
Vpp ripple&noise relative: 8.4%

RMS ripple&noise absolute: 0.257V

RMS ripple&noise relative: 2.1%







6 Turn on voltage

Testing when the PSU enables it's output

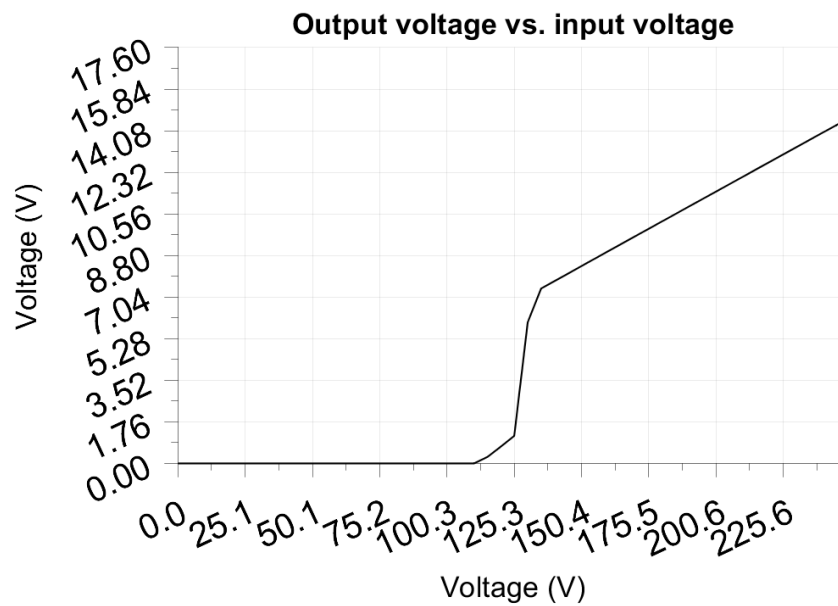
Test load: 0.100A

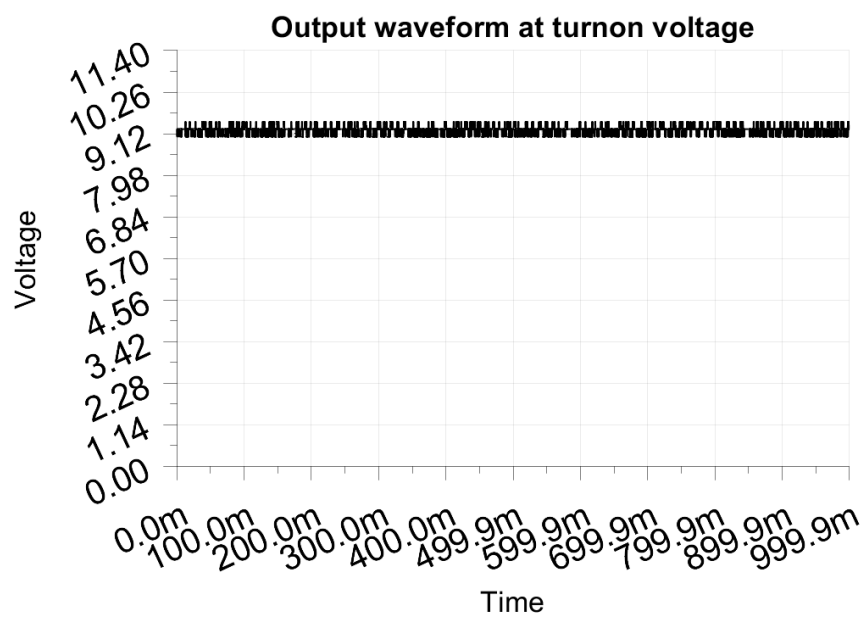
Test Frequency: 50Hz

Threshold: 9.000V

Turn-on voltage: 165.00V

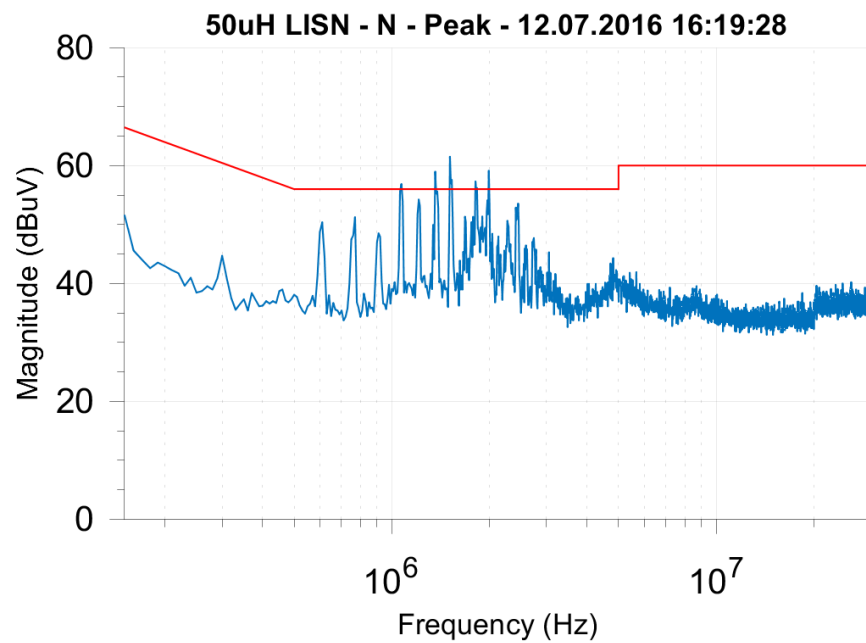
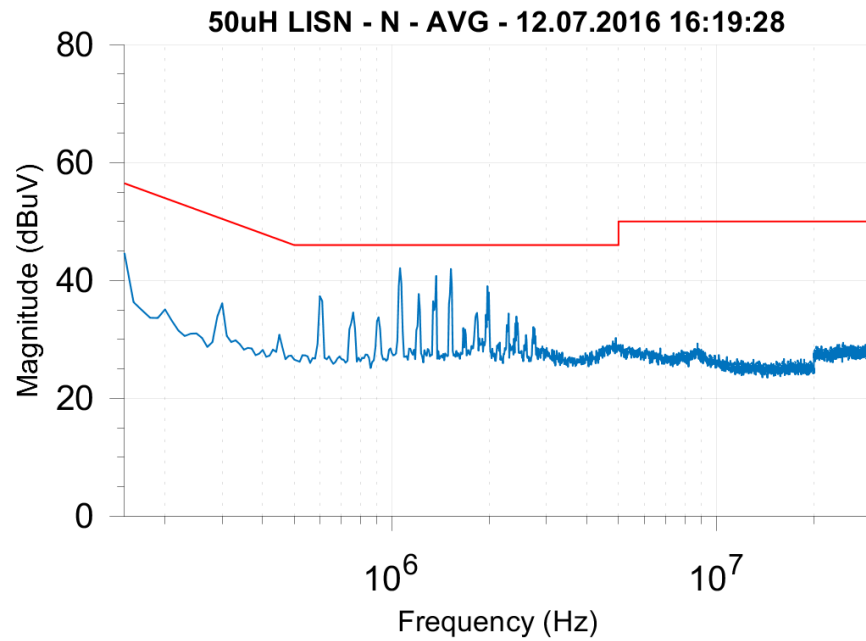
Output voltage: 9.298V

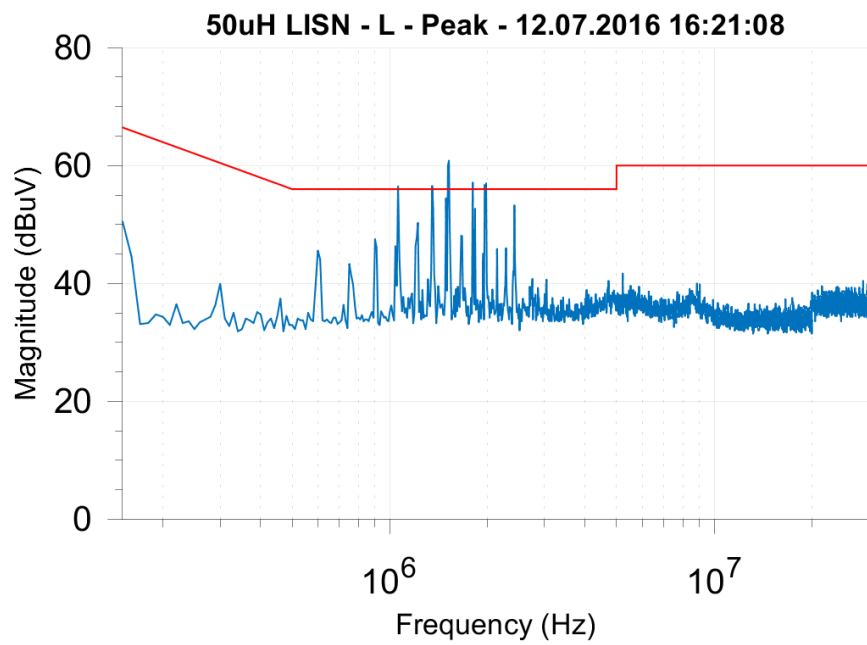
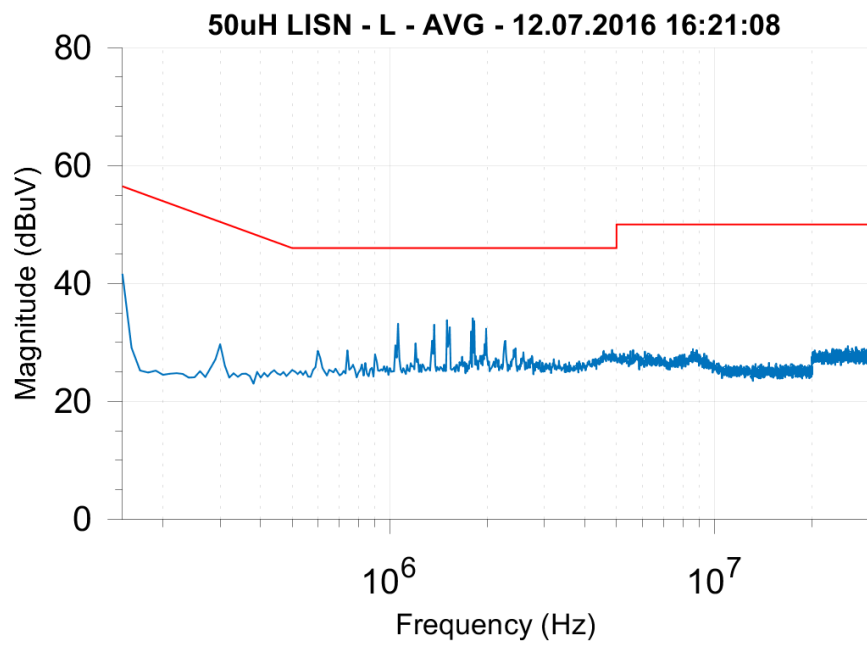




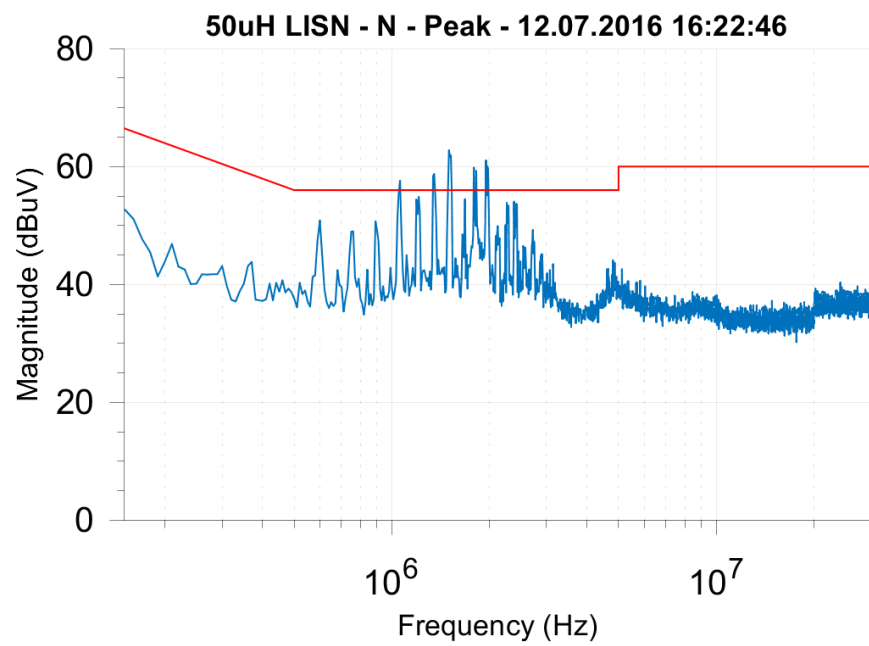
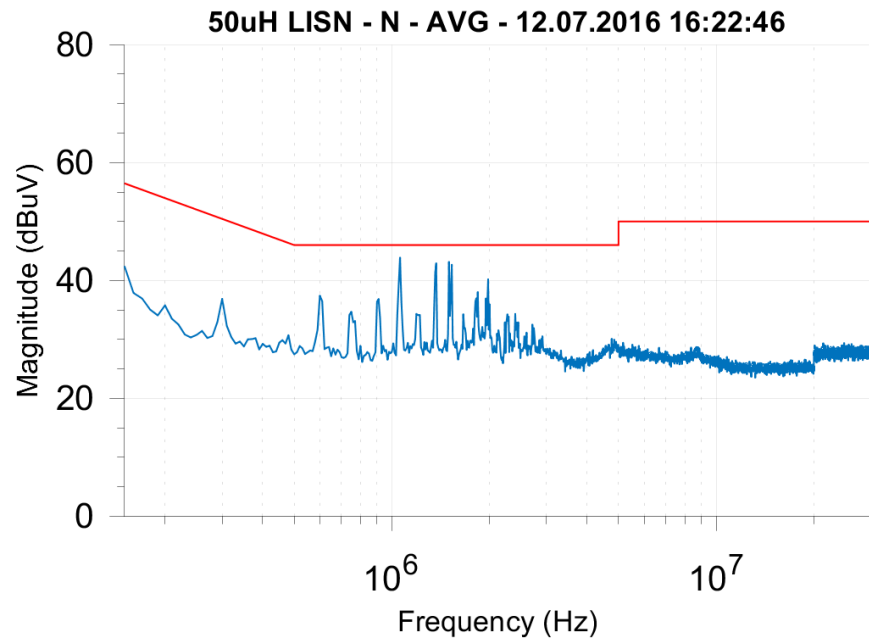
7 Conducted EMI

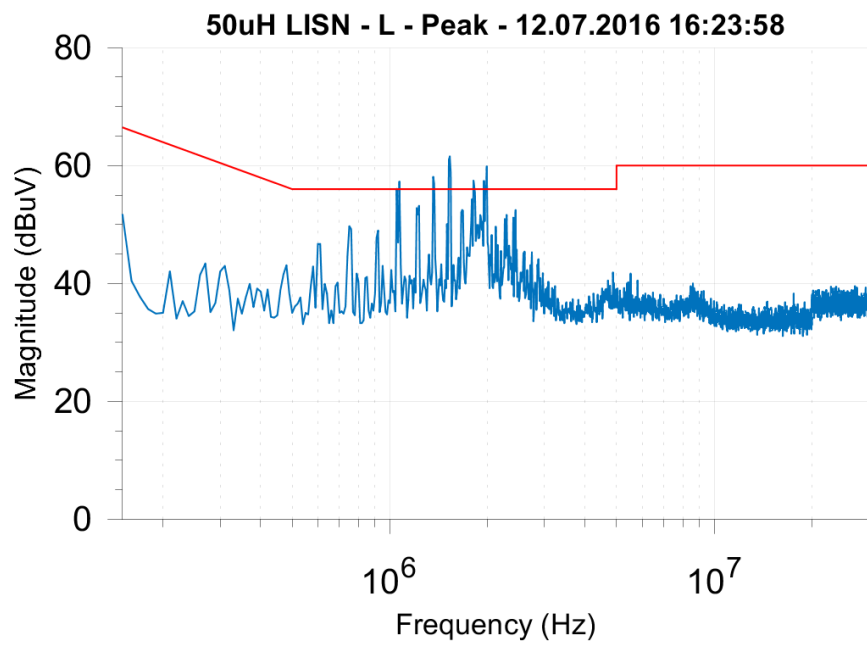
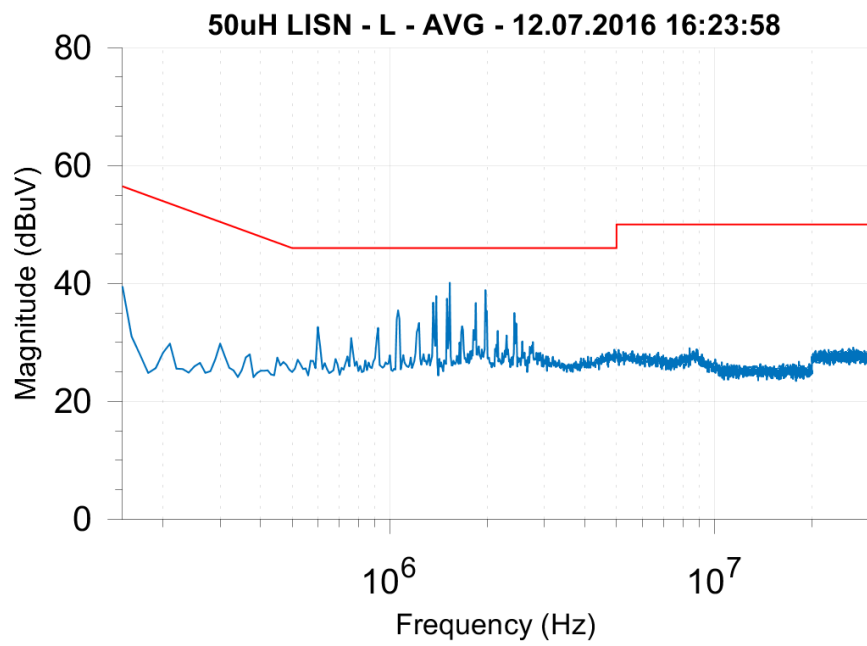
7.1 Output load 0.000A



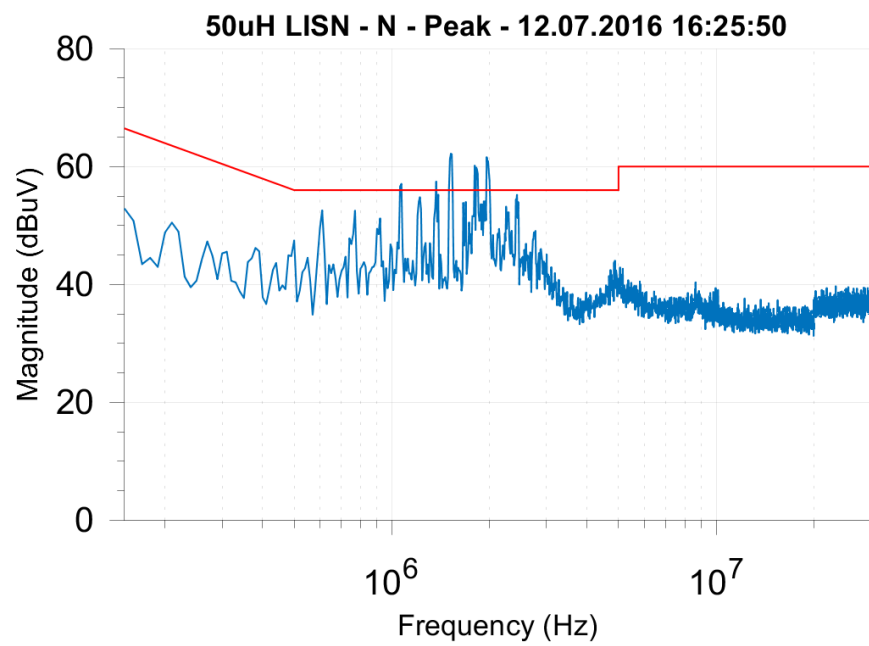
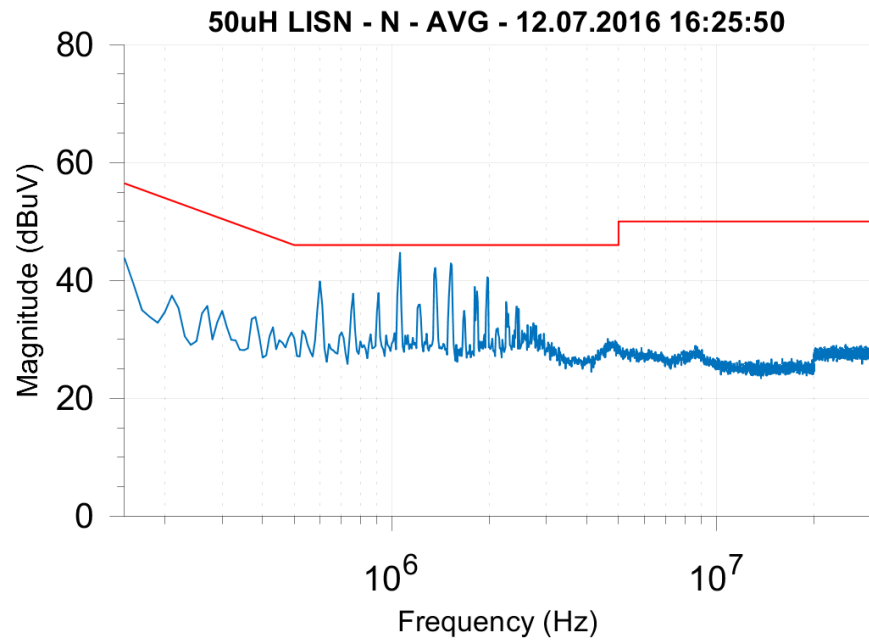


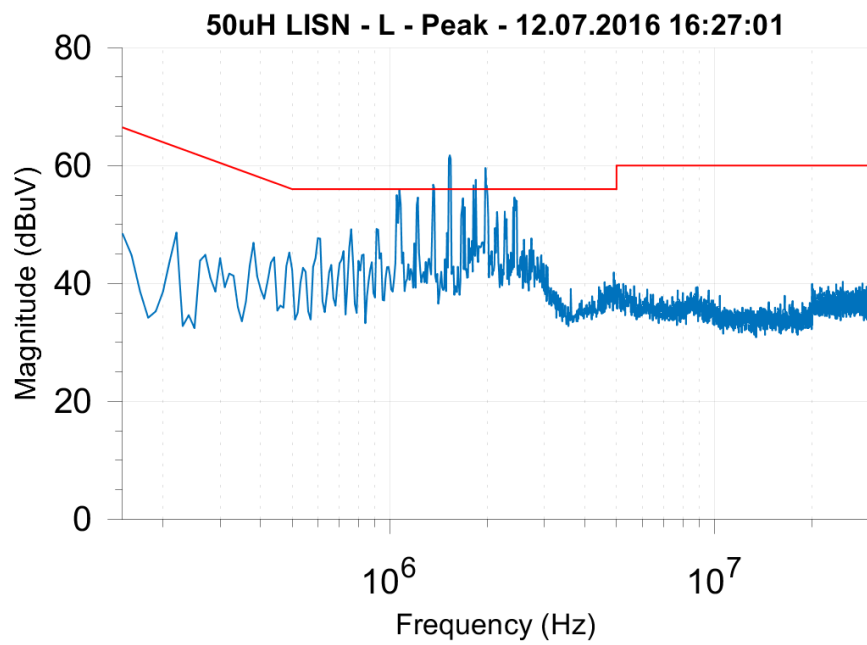
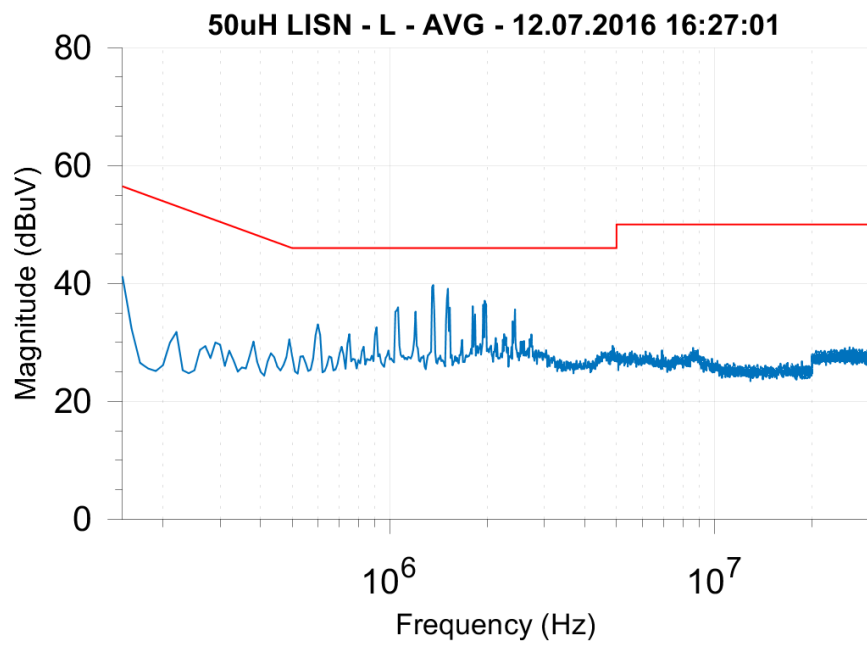
7.2 Output load 0.500A





7.3 Output load 1.000A





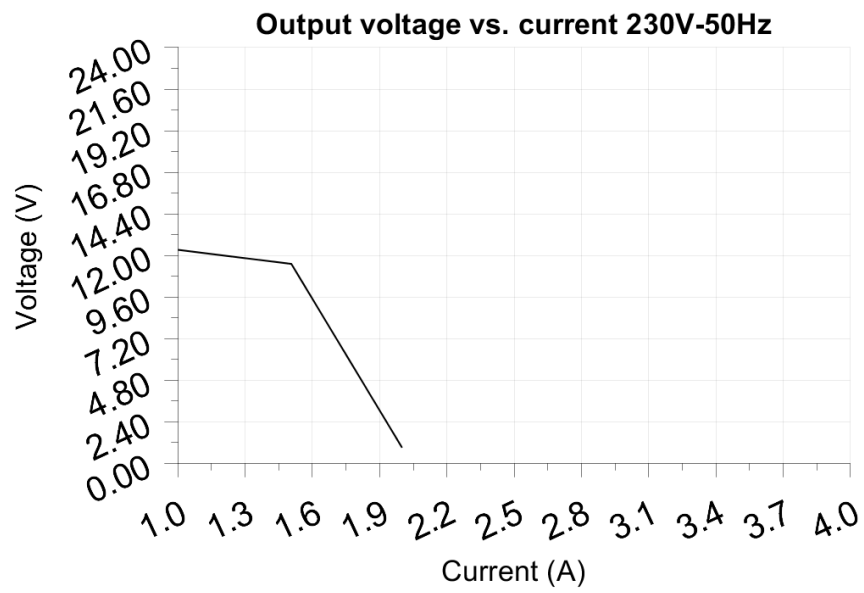
8 Overload testing

Test voltage: 230.00V

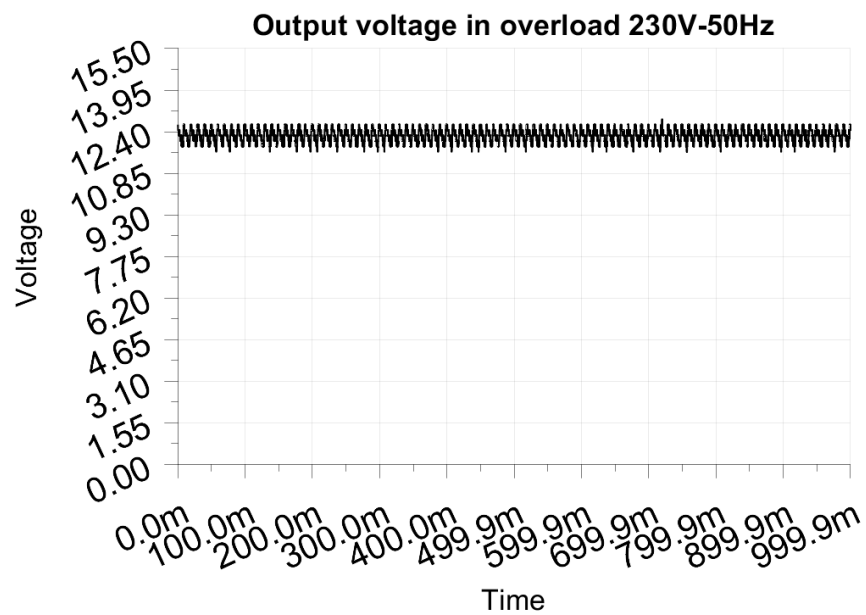
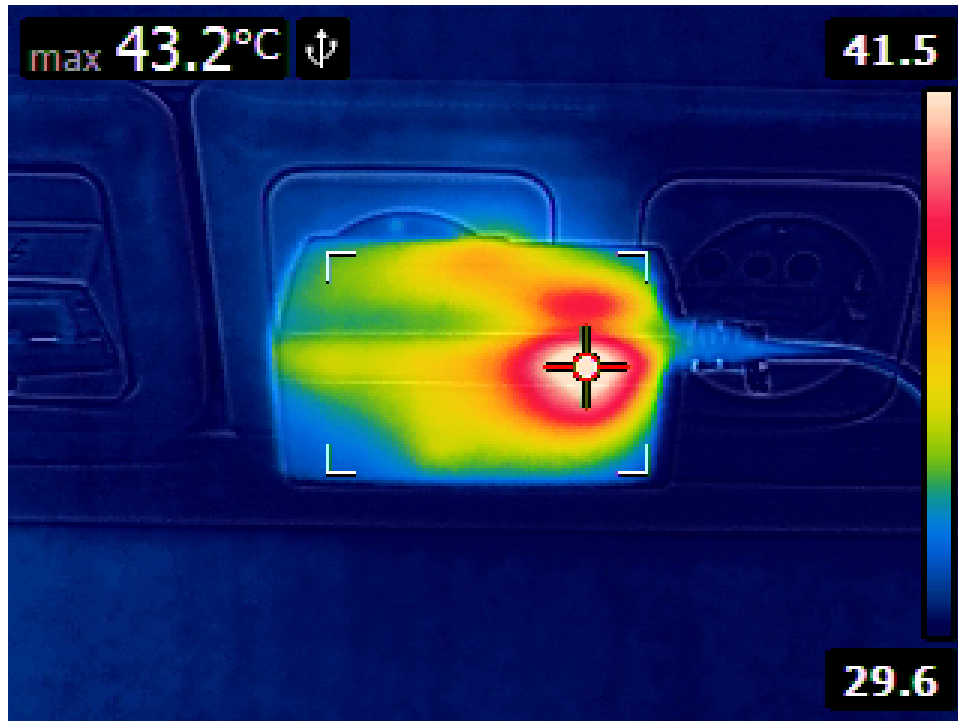
Test Frequency: 50Hz

Threshold: <6.000V

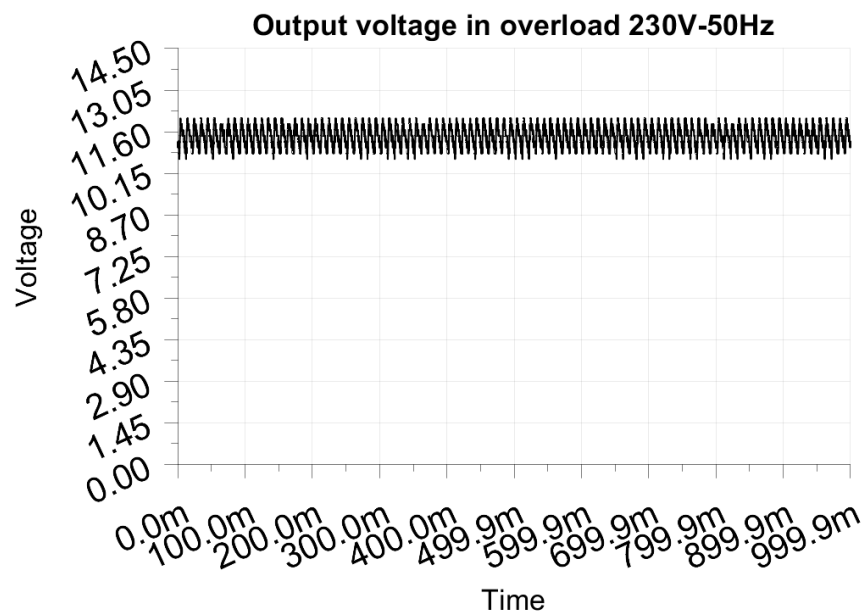
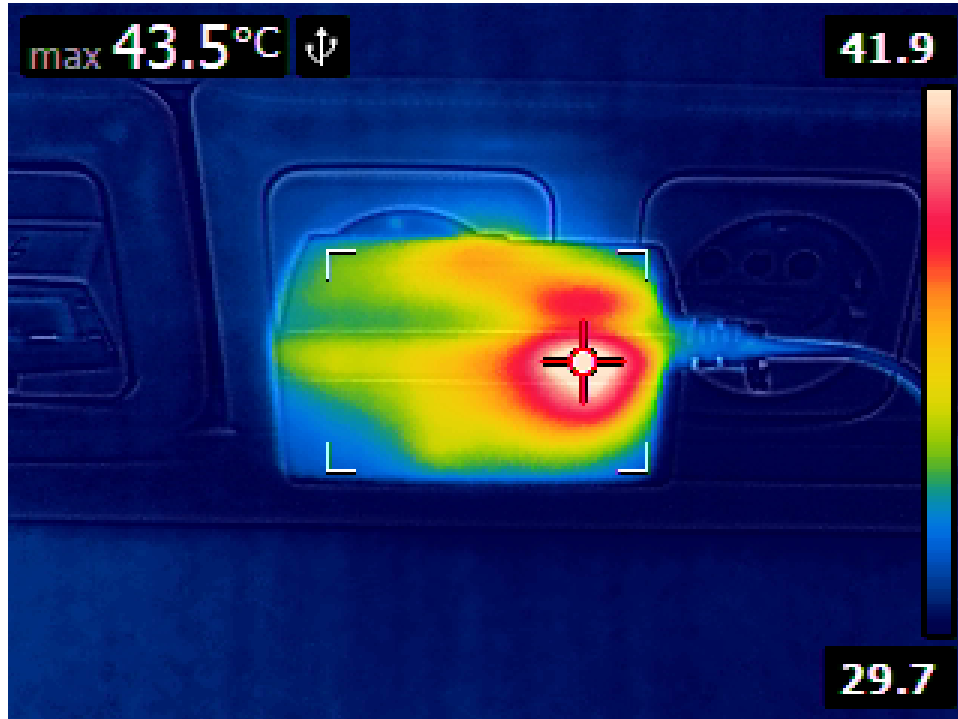
Maximum output current before shutdown: 2.000A



8.1 Output load 1.000A or 100%



8.2 Output load 1.500A or 150%



8.3 Output load 2.000A or 200%

