



develop

PSU test report

Bernhard Woerndl-Aichriedler
bwa@xdevelop.at

1 Contents

- General information
- Point of operation
- Standby power consumption
- Load testing
- Turn on voltage
- Conducted EMI
- Overload testing

2 General information

Testing the following device

Manufacturer: Vigortronix
Device name: VTX-214-003-112
Serial number: 1
Nominal voltage: 12.000V
Nominal current: 0.250A
Tester: Bernhard Woerndl-Aichriedler <bwa@xdevelop.at>
Start time: 13-Jul-2016 23:34:41

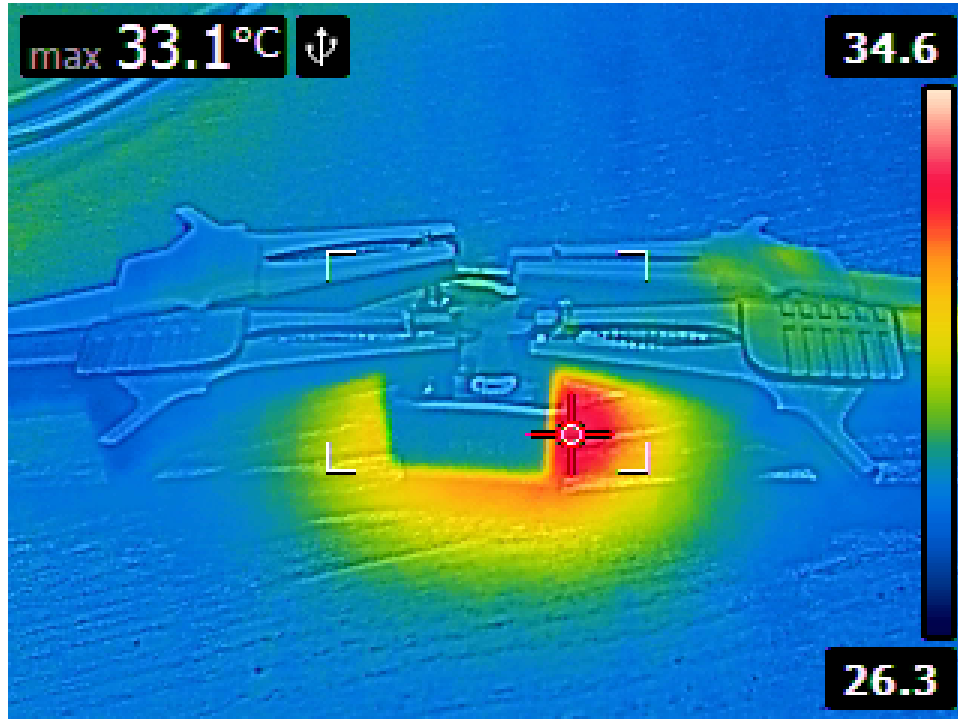


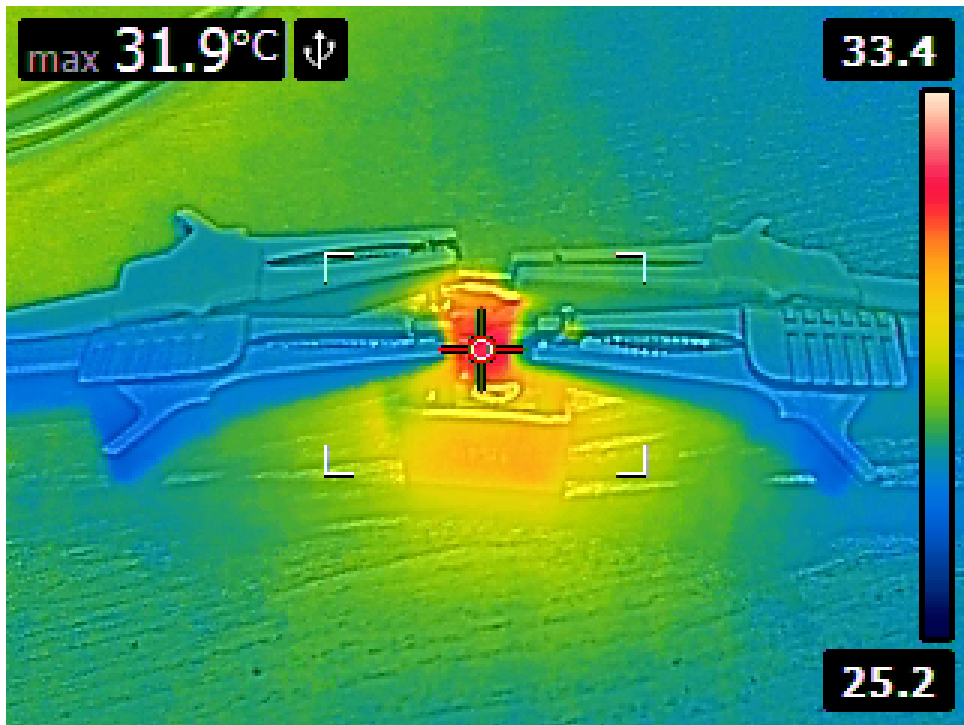
3 Point of operation

The test has been conducted with the following conditions

Voltage/Frequency: 250V-50Hz

Ambient Temperature: 31.25C





4 Standby power consumption

Voltage: 250.69V

Frequency: 50Hz

Current: 0.001715A

P active: 0.092W

P apparent: 0.428VA

P reactive: 0.418VAR

P factor: 0.216

Output voltage: 12.023V



5 Load testing

Characteristics

Voltage: 250.69V

Frequency: 50Hz

Loads: 0.000A to 0.250A

Minimum output voltage: 12.022V

Maximum output voltage: 12.057V

Regulation error absolute: -0.022V/+0.057V

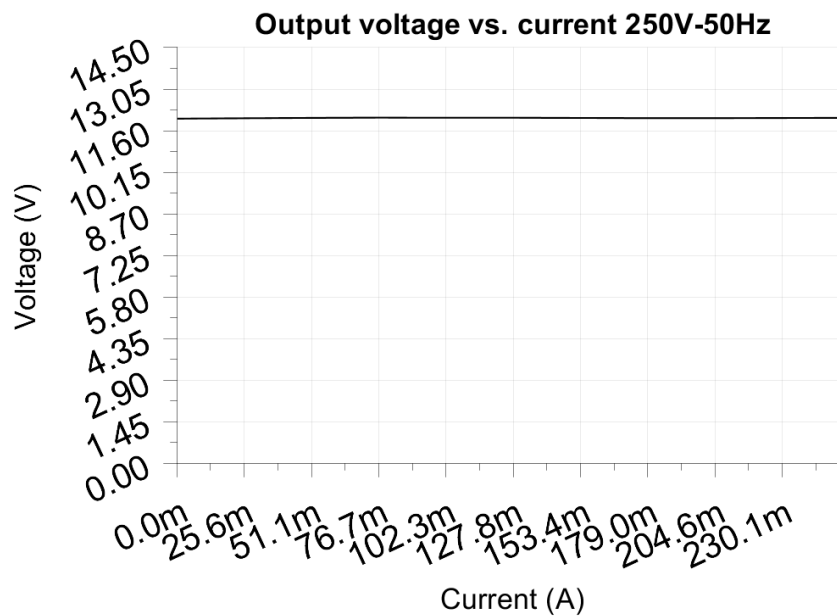
Regulation error relative: -0.2%/+0.5%

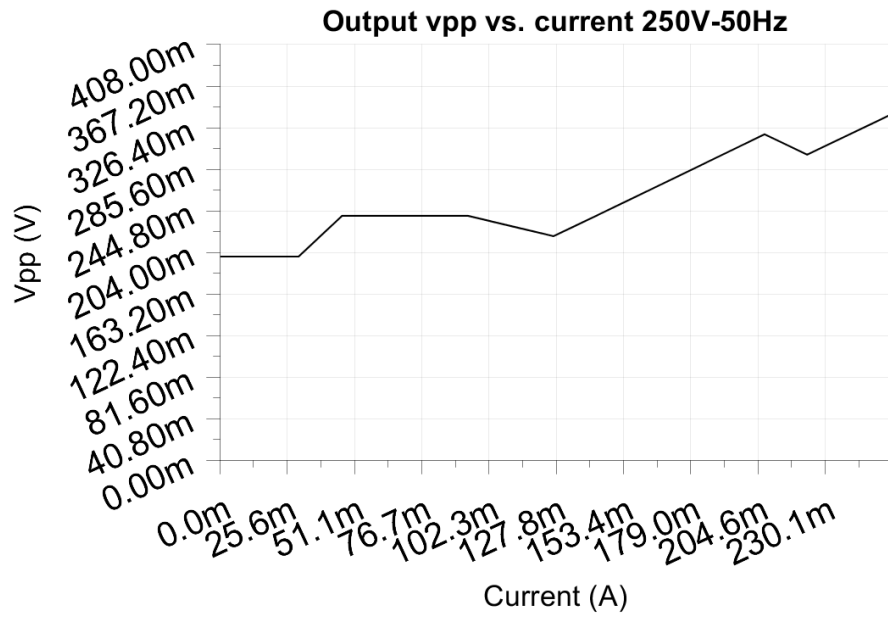
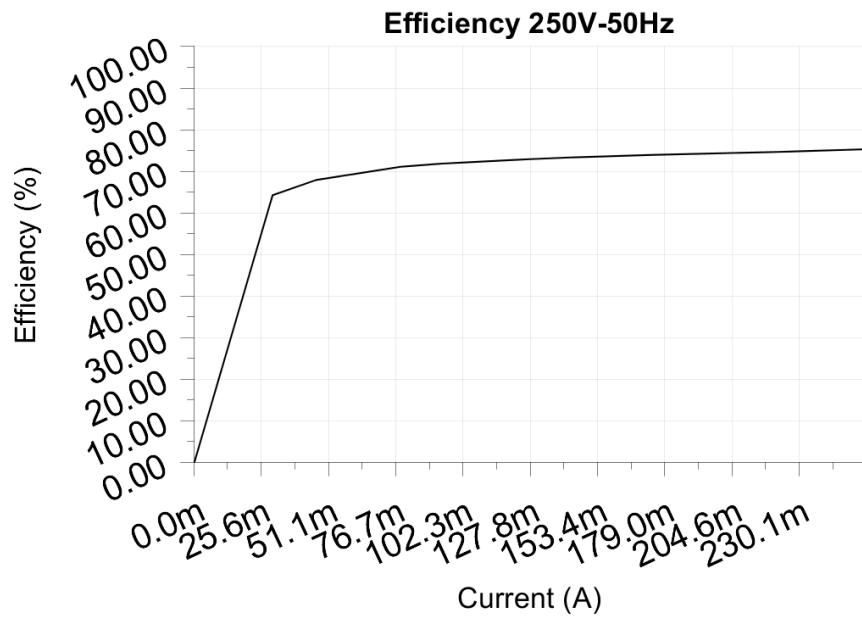
Vpp ripple&noise absolute: 0.340V

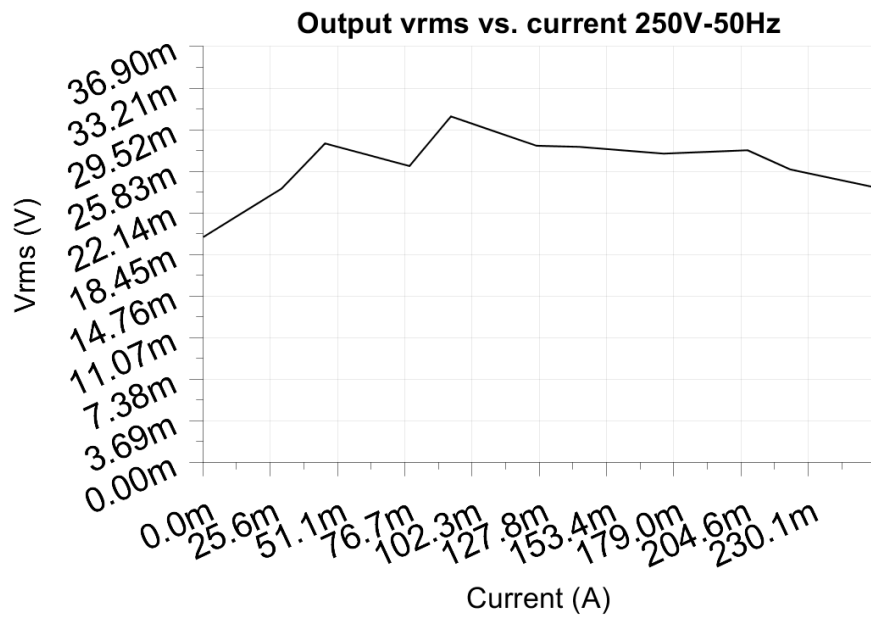
Vpp ripple&noise relative: 2.8%

RMS ripple&noise absolute: 0.031V

RMS ripple&noise relative: 0.3%







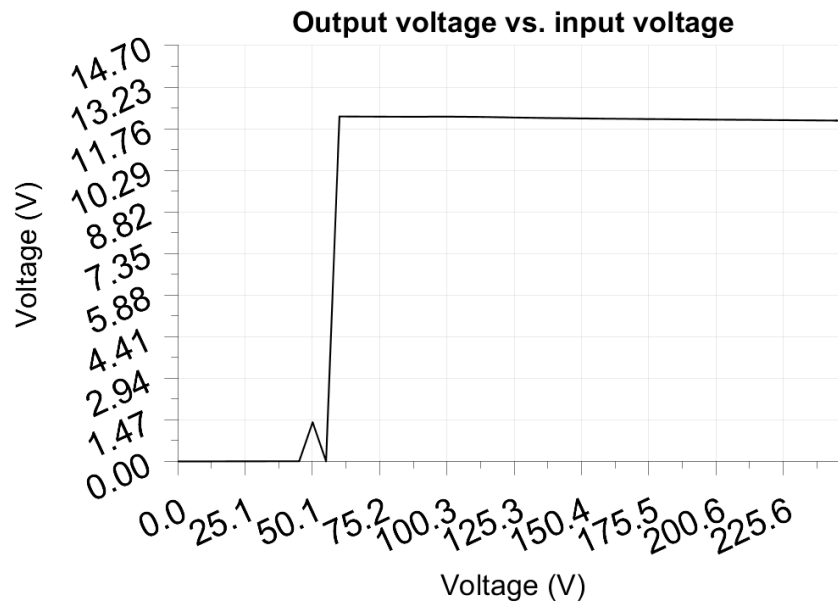
6 Turn on voltage

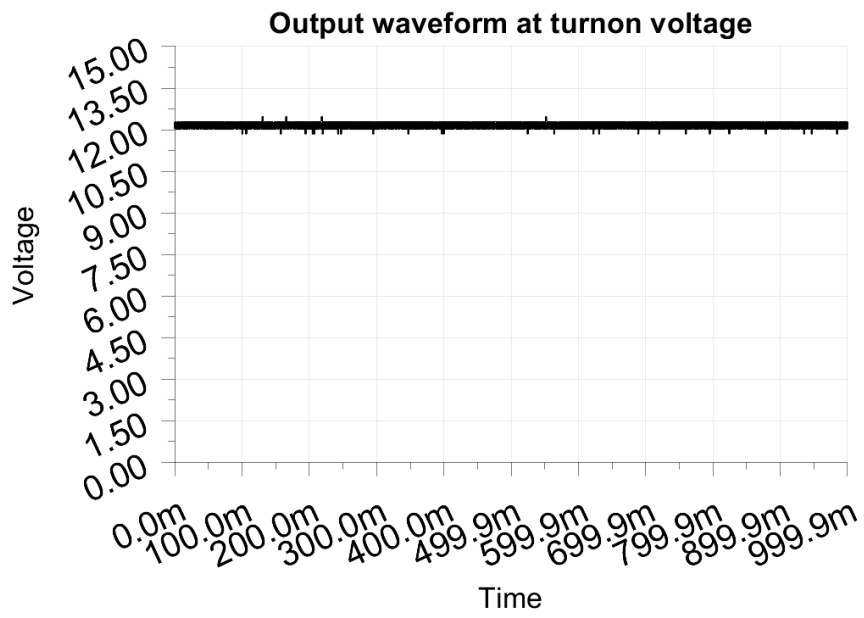
Testing when the PSU enables it's output

Test load: 0.025A
Test Frequency: 50Hz
Threshold: 9.000V

Turn-on voltage: 60.00V

Output voltage: 12.194V





7 Conducted EMI

No EMI test results

8 Overload testing

No overload test results