



develop

PSU test report

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2 General information

Testing the following device

Manufacturer: Vigortronix
Device name: VTX-214-005-112
Serial number: 1
Nominal voltage: 12.000V
Nominal current: 0.420A
Tester: Bernhard Woerndl-Aichriedler <bwa@xdevelop.at>
Start time: 14-Jul-2016 00:03:18

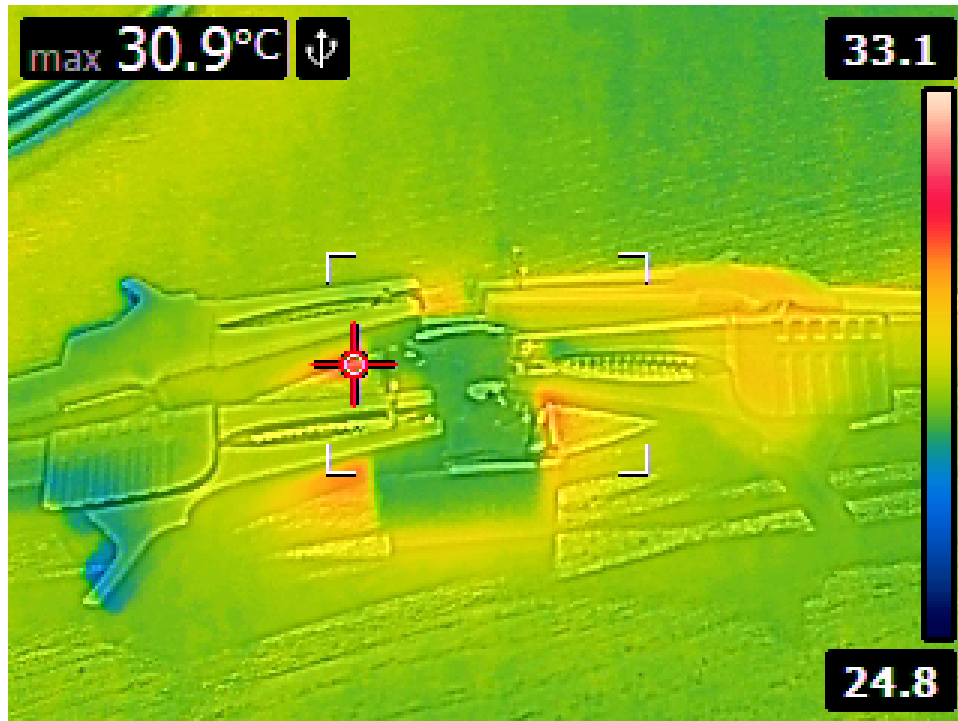


3 Point of operation

The test has been conducted with the following conditions

Voltage/Frequency: 250V-50Hz

Ambient Temperature: 31.48C





4 Standby power consumption

Voltage: 250.69V

Frequency: 50Hz

Current: 0.003249A

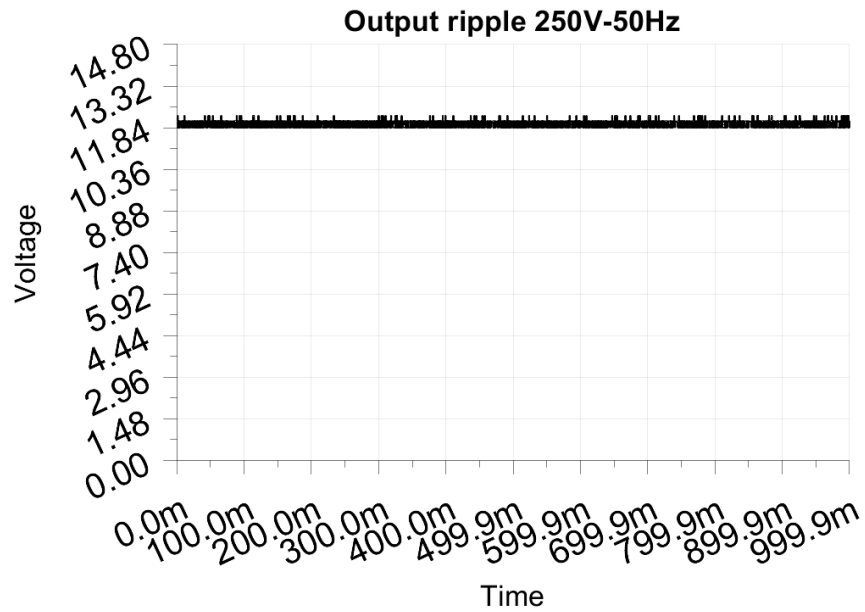
P active: 0.174W

P apparent: 0.815VA

P reactive: 0.796VAR

P factor: 0.214

Output voltage: 12.085V



5 Load testing

Characteristics

Voltage: 250.68V

Frequency: 50Hz

Loads: 0.000A to 0.420A

Minimum output voltage: 12.030V

Maximum output voltage: 12.189V

Regulation error absolute: -0.030V/+0.189V

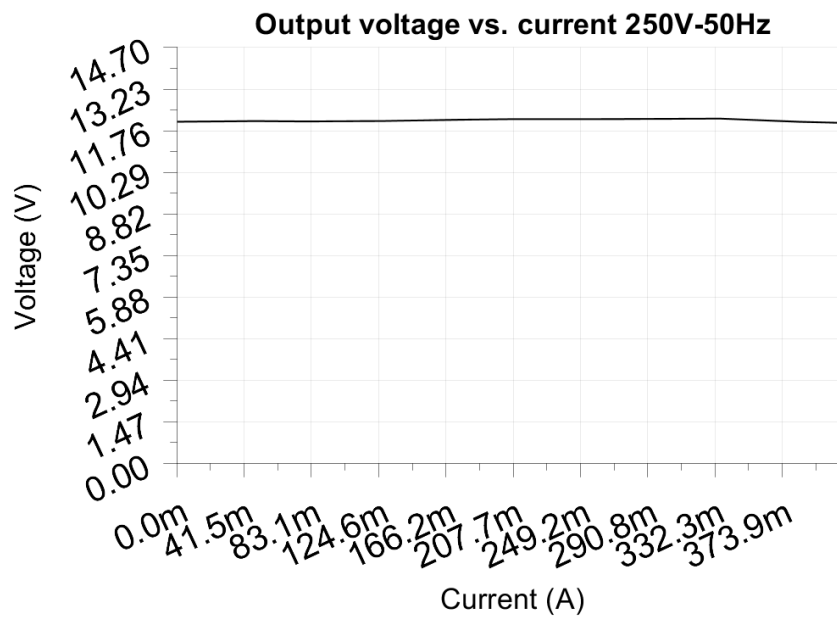
Regulation error relative: -0.2%/+1.6%

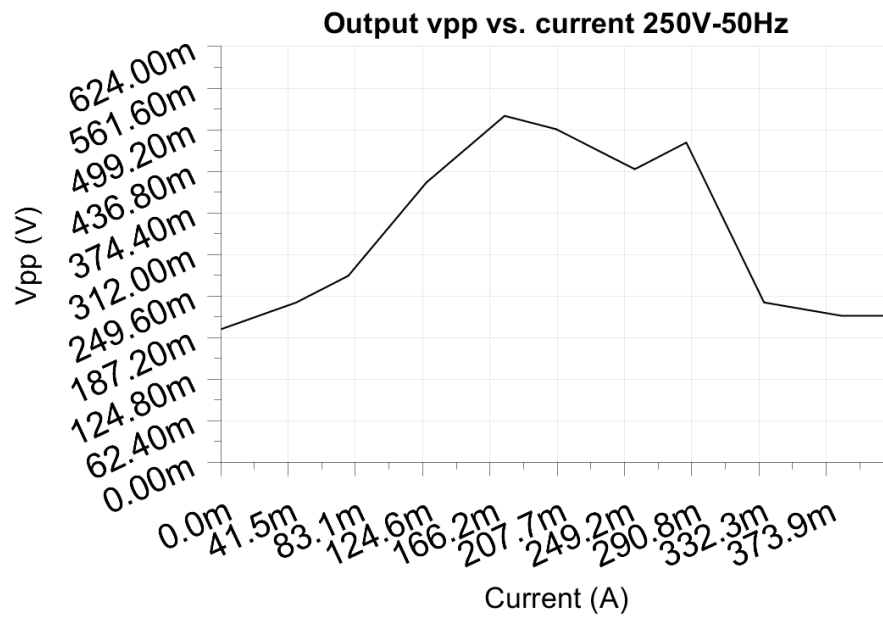
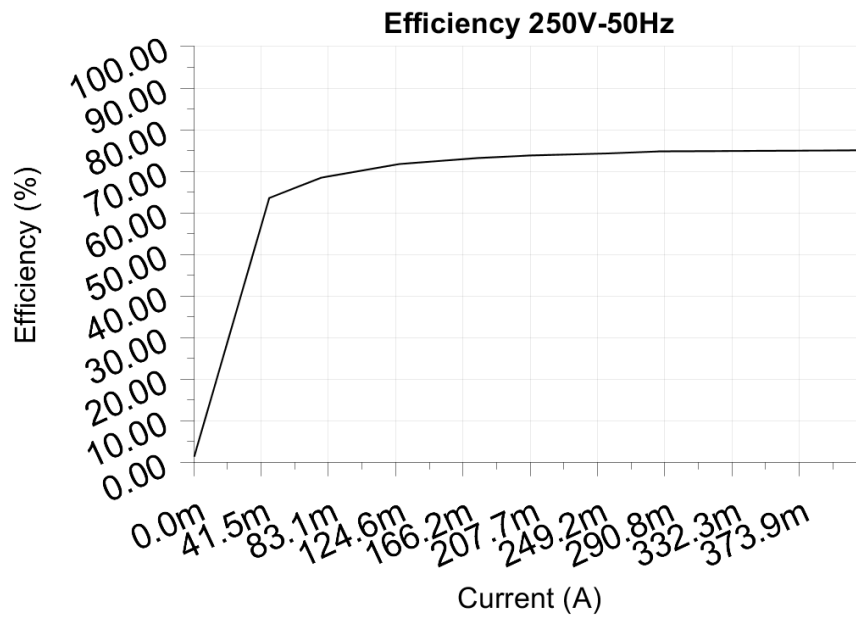
Vpp ripple&noise absolute: 0.520V

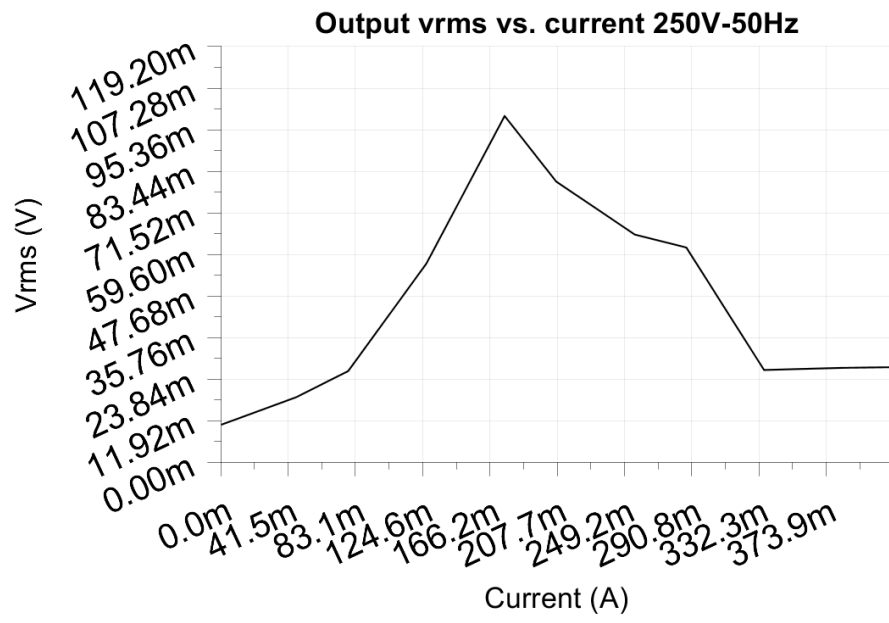
Vpp ripple&noise relative: 4.3%

RMS ripple&noise absolute: 0.099V

RMS ripple&noise relative: 0.8%







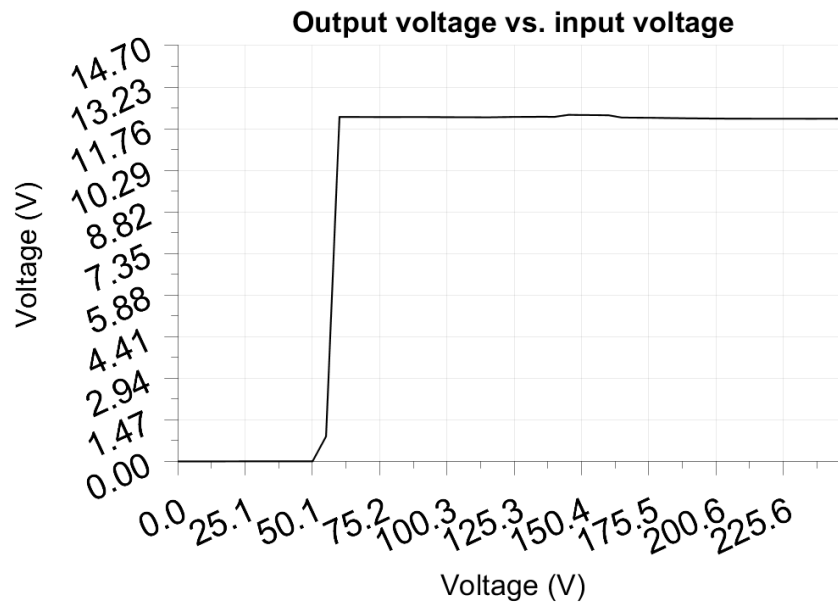
6 Turn on voltage

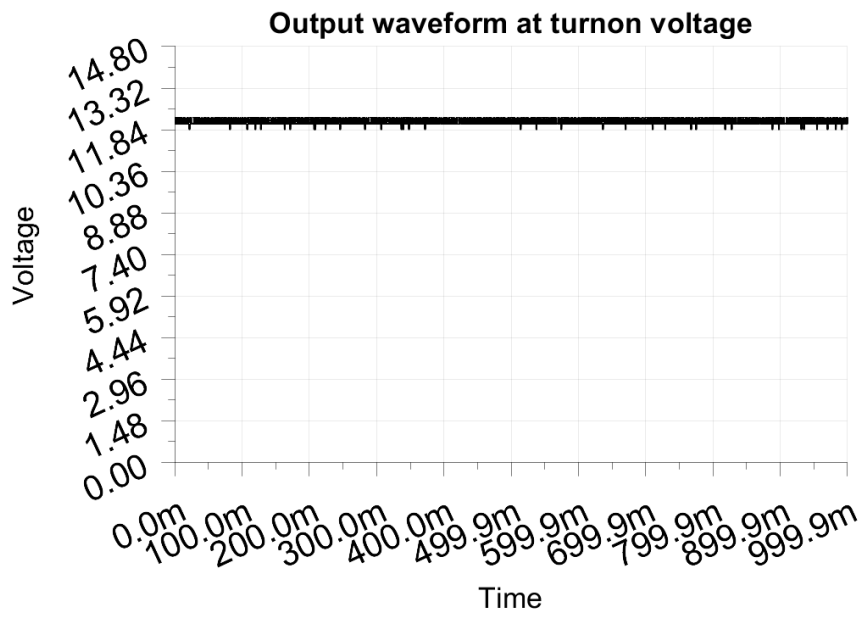
Testing when the PSU enables it's output

Test load: 0.042A
Test Frequency: 50Hz
Threshold: 9.000V

Turn-on voltage: 60.00V

Output voltage: 12.175V





7 Conducted EMI

No EMI test results

8 Overload testing

No overload test results