



Test Procedure for the NCP1606BOOST Evaluation Board

Table 1: Required Equipment

AC power supply 88 - 264 Vac, 50 Hz	Volt Meter	High Voltage Electronic Load or Power Resistor
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1. Connect a 1.6 k Ω , power resistor (150 W or greater) to the output (labeled “400 V, 100W”).
2. Connect a DC Voltmeter to the output.
3. Connect an AC supply to the terminals labeled “Input”. Set the compliance limit to 3 A.
4. Set the AC supply to 88 V_{rms} and 50 Hz.
5. Turn the AC source on. The Voltmeter should read 405 V +/- 15 V within 10 seconds. There may be some observable variation in the measurement. This is ok, but should not exceed 20 V from the average reading.
6. Increase AC supply to 115 V, 230 V, and 264 V. Verify that the output is 405 V and that there is no noise.
7. Turn off the AC supply.
8. Wait for the DC Voltmeter to read about 0 V.
9. Disconnect the DC Voltmeter.
10. Disconnect the power resistor.
11. End of test.