

Test Procedure for the NCP1060BUCKGEVB



The following steps detail the test procedure for all these boards:

Necessary Equipment:

- 1 Current limited 90 ÷ 265Vrms AC source (current limited to avoid board destruction in case of a defective part) (e.g. AGILENT 6811)
- 1 AC Volt-Meter able to measure up to 300V AC. (e.g. KEITHLEY 2000)
- 1 AC Amp-Meter able to measure up to 3A AC. (e.g. KEITHLEY 2000)
- 4 DC Volt-Meter able to measure up to 50V DC. (e.g. KEITHLEY 2000)
- 4 DC Amp-Meter able to measure up to 5A DC. (e.g. KEITHLEY 2000)
- 4 DC Electronic Load 0 - 60A (e.g. AGILENT 6060B)

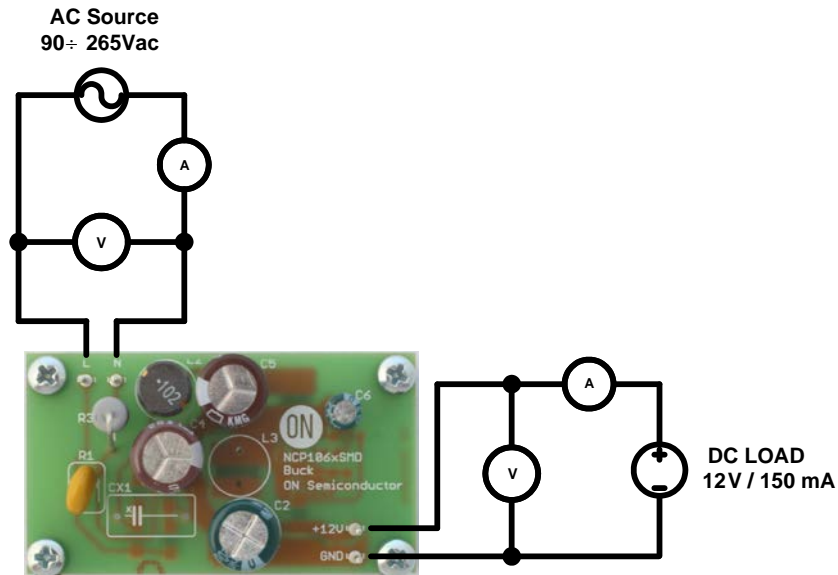


Figure 1: Test Setup for Buck Converter

Test Procedure (Buck convertor):

1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage, $U_{in} = 90 - 265V_{ac}$
3. Apply $I_{out}(\text{load}) = 0A$
4. Check that U_{out} is no higher than 15V
5. Increase $I_{out}(\text{load})$ load to: 150 mA
6. Check that U_{out} is 12V
7. Power down the load
8. Power down U_{in}
9. End of test

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