## Test Procedure for the NCP10672 demo boards



### 11/27/2018

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

## Necessary Equipment:

- 1 Current limited  $90 \div 265 \text{Vrms}$  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 20V DC. (e.g. KEITHLEY 2000)
- 4 DC Amp-Meter able to measure up to 500 mA DC. (e.g. KEITHLEY 2000)
- 4 DC Electronic Load 0 1A (e.g. AGILENT 6060B)

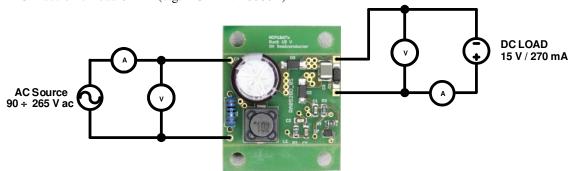


Figure 1: Test Setup for 15 V Buck Converter

# **Test Procedure (Flyback convertor):**

- 1. Connect the test setup as shown in Figure 1.
- 2. Apply an input voltage, Uin =90 265Vac
- 3. Apply Iout(load) = 0A
- 4. Check that Uout is Maximum 16 V
- 5. Increate Iout(load) load to: 270 mA
- 6. Check that Uout is 15 V
- 7. Power down the load
- 8. Power down Uin
- 9. End of test

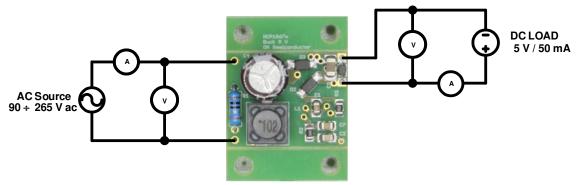


Figure 2: Test Setup for 5 V Buck Converter

## **Test Procedure (Buck convertor):**

- 1. Connect the test setup as shown in Figure 1.
- 2. Apply an input voltage, Uin =90 265Vac
- 3. Apply Iout(load) = 0A
- 4. Check that Uout is Maximum 6 V
- 5. Increate Iout(load) load to: 50 mA
- 6. Check that Uout is 5 V
- 7. Power down the load
- 8. Power down Uin
- 9. End of test