

## Test Procedure for the NCP1014STBUCGEVB demo boards Non-isolated Positive Output Buck AC/DC Converter AND8226-D



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) or a 380VDC source (e.g. AGILENT 681x)
- 1 AC Volt-Meter able to measure up to 300V AC (e.g. KEITHLEY 2000)
- 1 AC Amp-Meter able to measure up to 1A AC (e.g. KEITHLEY 2000)
- 1 DC Volt-Meter able to measure up to 20V DC (e.g. KEITHLEY 2000)
- 1 DC Amp-Meter able to measure up to 500mA DC (e.g. KEITHLEY 2000)
- 1 DC Electronic Load (e.g. AGILENT 6060B)

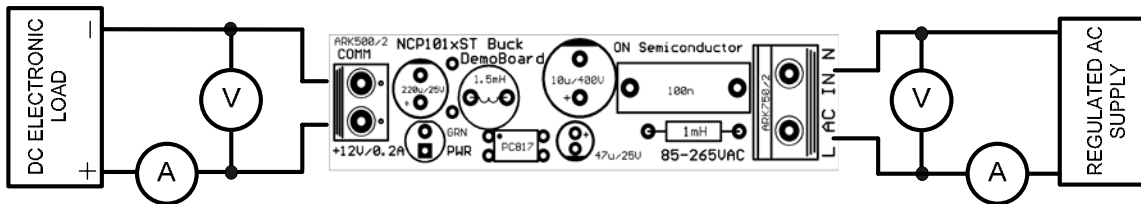


Figure 1: Test Setup

### **Test Procedure:**

1. **Connect the test setup as shown in Figure 1.**
2. **Apply an input voltage,  $U_{in} = 90 - 265V_{ac}$**
3. **Apply  $I_{out}(load) = 0A$**
4. **Check that  $U_{out}$  is 12Vdc**
5. **Increate  $I_{out}(load)$  load to: 12V / 200mA**
6. **Check that  $U_{out}$  is 12V**
7. **Power down the load**
8. **Power down  $U_{in}$**
9. **End of test**



Be careful when manipulating the boards in operation, lethal voltages up to 265Vac are present on the primary side.