

Test Procedure for the NCP1236 Demoboard

NCP1236B65NBGEVB

ON Semiconductor®



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Required Equipment:

Current limited 90 ÷ 265 Vrms AC source (current limited to avoid board destruction in case of defective part) (e.g. AGILENT 6811)	1pc
AC Volt-Meter able to measure up to 300 V AC (e.g. KEITHLEY 2000)	1pc
AC Amp-Meter able to measure up to 3 A AC (e.g. KEITHLEY 2000)	1pc
DC Amp-Meter able to measure up to 5 A DC (e.g. FLUKE 89 IV)	1pc
DC Volt-Meter able to measure up to 30 V DC (e.g. KEITHLEY 2000)	1pc
DC Electronic Load (e.g. AGILENT 6060B)	1pc



Figure 1: Test Setup

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

Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage, $V_{IN} = 90 \div 265 \text{ Vac}$
3. Apply $I_{OUT}(\text{load}) = 0 \text{ A}$
4. Check that $V_{OUT} = 19 \text{ Vdc}$
5. Set I_{OUT} to 3.5 A
6. Check that $V_{OUT} = 19 \text{ Vdc}$
7. Turn off the load
8. Turn off V_{IN}
9. End of the test

Be careful when manipulating the boards in operation, lethal voltages up to 425V are present on the primary side. An isolation transformer is also recommended for safer manipulations.