

Test Procedure for the NCP1351 Adapter Evaluation Board

ON Semiconductor



8/1/2007



Be careful when manipulating the boards in operation, lethal voltages up to 400V are present on the primary side. An isolation transformer is also recommended for safer manipulations.

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 (AGILENT 6811)
- 1 AC Volt-Meter able to measure up to 300V AC. (KEITHLEY 2000)
- 1 AC Amp-Meter able to measure up to 3A AC. (KEITHLEY 2000)
- 1 DC Volt-Meter able to measure up to 20V DC. (KEITHLEY 2000)
- 1 DC Amp-Meter able to measure up to 5A DC. (KEITHLEY 2000)
- 1 DC Electronic Load 0 - 4A (AGILENT 6060B)



AC/DC 19 V – 3 A adapter

1. Apply 90 ÷ 230V AC over the Vin pins. Output pins (+Vout (+), Ground (-)) are left floating.
2. Measure the output voltage between pins +Vout et Ground with a volt-meter on the auto range. The measurement should be between 18.8 and 19.2 volts.
3. Connect the electronic load between pin +Vout et Ground. Verify that the output voltage stays above 19V. Set current 3A.
4. If every step is going well, the board is considered to be ok.