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# Test Procedure for the NCP1351 Adapter Evaluation Board

ON Semiconductor



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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.