

Test Procedure for the NCP1342PD90WGEVB PD3.0/QC3.0 demo board

ON Semiconductor®



The following steps detail the test procedure for 90W PD3.0/QC3.0 demoboard:

Necessary Equipment:

- 1 Current limited 90 ~ 264Vrms AC source (current limited to avoid board destruction in case of a defective part) (e.g. Chroma 61602)
- 1 Power Meter(e.g. YOKOGAWA WT210)
- 1 DC Volt-Meter able to measure up to 50V DC. (e.g. Agilent 34401A)
- 1 DC Amp-Meter able to measure up to 5A DC. (e.g. Agilent 34401A)
- 1 DC Electronic Load 0 - 60A (e.g. Chroma 6312A with 63115A Module)



Figure 1: PD Test Setup for 90W PD/QC Demoboard

Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage, $U_{in} = 90 - 264V_{ac}$
3. Apply $I_{out}(load) = 0A$
4. Check that V_{out} is no higher than 5.1V
5. Push PD or QC emulator mode key to change voltage
5. Increase or Decrease $I_{out}(load)$
6. Check that V_{out} is between 5V and 20V
7. Power down the load
8. Power down V_{ac}

9. End of test

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[onsemi:](#)

[NCP1342PD90WGEVB](#)