



Test Procedure for the NCV898031SEPGVB Evaluation Board

1. Connect a DC input voltage, within the 6 V to 40 V range, between VIN and GND.
2. Connect a DC enable voltage, within the 2.0 V to 5.0 V range, between EN/SYNC and GND.
3. The demo board feedback components were selected for continuous operation at rated 7 V/1.22 A output power at a minimum input voltage of 6 V. The NCV898031 V_{IN} has its operational voltage diode-ORed between the converter output and input voltages. The converter turns-on typically at V_{IN} rising. Once energized, the output voltage supplies power to the IC when the battery voltage is less than the input IC VIN voltage. The decreasing V_{IN} UVLO voltage depends on load current as well as V_{IN} , and will be less than 6 V when operating below rated output current.