

## Test Procedure for the NCP5106 – Synchronous Buck

ON Semiconductor®



### Necessary Equipment:

- 2 DC Source
- 3 DC Volt-Meter
- 2 DC Amp-Meter
- 1 DC Electronic Load
- 1 Oscilloscope

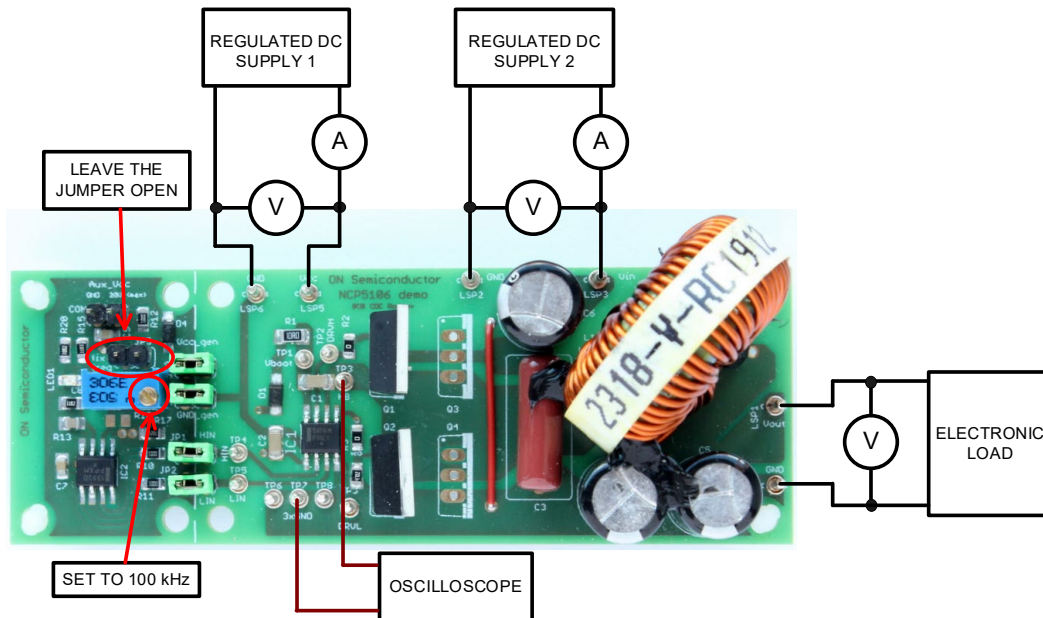


Figure 1: Test Setup

### Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Connect electronic load. Set current to 0.1 A
3. Apply input voltage 1,  $V_{in} = 15 \text{ Vdc}$  (14.7 mA)
4. Apply input voltage 2,  $V_{in} = 100 \text{ Vdc}$  (52 mA)
5. Set the frequency to 100 kHz
6. the output voltage should be 50 V
7. Set electronic load to 1 A (do not keep the high current for more than 60 sec)
8. Input current supply 1 = 15.8 mA
9. Input current supply 2 = 502 mA
10. The output voltage should be 46 V
11. Turn off supply 2 then turn off supply 1
12. End of test