

# Test Procedure for the NCV12711FLOATGEVB Evaluation board

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## Required Equipment:

DC source (able to provide 40 V / 3 A).....	1pc
DC Amp-Meter able to measure up to 3 A.....	1pc
DC Volt-Meter able to measure up to 50 V.....	1pc
DC Electronic Load (max 20 V / 1 A) .....	1pc



Figure 1: Test Setup

The following steps describe the test procedure for all boards. Please connect the boards and equipment based on Figure 1.

## Test Procedure:

1. Apply an input voltage  $V_{IN} = 4.5$  V, output is no-loaded, i.e.  $I_{OUT} = 0$  A.
2. Check that  $V_{OUT} = 12$  V (note 1).
3. Increase the input voltage  $V_{IN} = 6$  V and set the output current to  $I_{OUT} = 1$  A.
4. Verify that the output voltage  $V_{OUT}$  is still present (note 2).
5. Increase the input voltage up to  $V_{IN} = 38$  V. The output is still loaded by 1 A. Run the board in this condition for 30 sec at least.
6. Verify that the output voltage is still present (note 2).
7. Turn off DC source, set the load current to  $I_{OUT} = 0$  A.
8. End of the test.

Note 1: The unloaded output voltage  $V_{out}$  can be up to 14.5 V.

Note 2: The loaded output voltage  $V_{out}$  can drop up to 11 V.