

SECO-HVDCDC1362-40W-GEVB Testing procedure

This document describes functional test of SECO-HVDCDC1362-40W-GEVB evaluation board.

Equipment needed to run functional test:

- Regulated **DC output high voltage** power supply up to 300VDC and minimum 50W (**NOTE: AC output is NOT allowed**)
- DC Electronic load with minimum 20VDC and 50W loading

Procedure:

1. Connect the DC output of the HV regulated source into the input terminals with correct polarity as depicted below. On the output connector, connect DC electronic load with correct polarity as shown below.



2. Turn on HV DC source and DC electronic load. Test is the following:
 - Set **250VDC** on the input terminals and **no loading** out of the *DC electronic load* -> observe ~15Vout on the DC electronic load display
 - Set **250VDC** on the input terminals and adjust *DC electronic load* to **2.7A** of load current-> observe ~15Vout on the DC electronic load display
 - Set **300VDC** on the input terminals and **no loading** out of the *DC electronic load* -> observe ~15Vout on the DC electronic load display
 - Set **300VDC** on the input terminals and adjust *DC electronic load* to **2.7A** of load current-> observe ~15Vout on the DC electronic load display