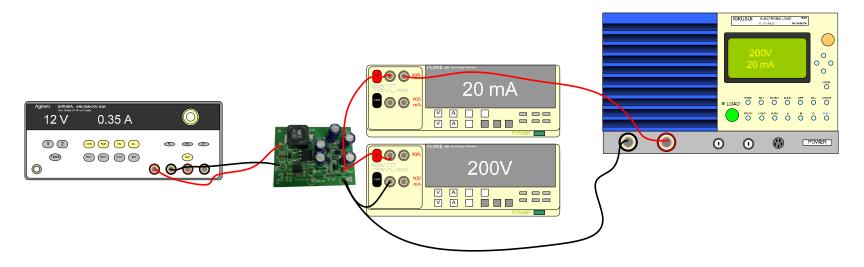


## Test Procedure for the CS5171/CS5173 Evaluation Board



**Figure 1: Test Setup** 

The following steps describe the test procedure for all these boards:

## **Suggested Equipment:**

Current limited DC Power Supply (e.g. AGILENT 6645A)	1pc
DC Volt-Meter able to measure up to 60 V DC (e.g. KEITHLEY 2000)	2pcs
DC Amp-Meter able to measure up to 2 A DC (e.g. KEITHLEY 2000)	1pc
DC Amp-Meter able to measure up to 5 A DC (e.g. FLUKE 89 IV)	1pc
DC Electronic Load (e.g. KIKUSUI PLZ153WH)	1pc

## **Test Procedure:**

- 1. Connect the test setup as shown in Figure 1.
- 2. Apply an input voltage, V<sub>IN</sub> = 12 Vdc
- 3. Apply Iout(load) = 0 A
- 4. Check that  $V_{OUT} = 200V \pm 5\% V_{dc}$
- 5. Set Iout to desired level 0 mA- 20 mA and measure voltage and current. The efficiency should be similar to that shown in Figure 3 and 4.
- 6. Check that  $Vout = 200V \pm 5\% Vdc$  under desired operating condition
- 7. Turn off the load
- 8. Turn off Vin
- 9. End of the test

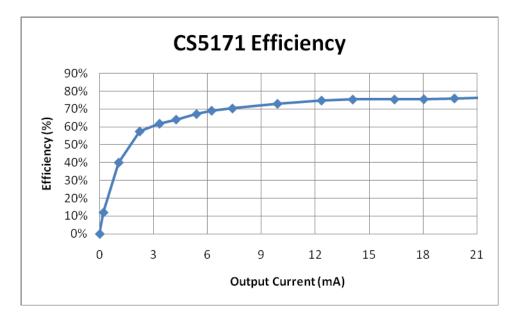


Figure 2: CS5171 12V to 200V Efficiency

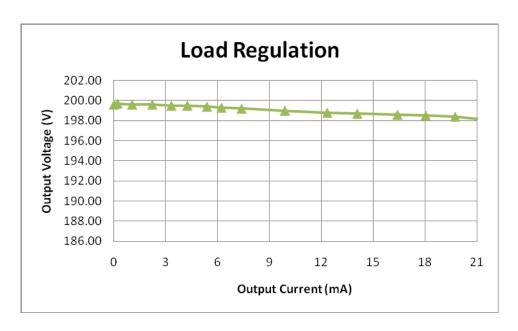


Figure 3: CS5171 12V to 200V Load Regulation