



Max current output (0ohm load) is $(+/-10V)/3k = +/- 3.33mA$.
 Current resolution is $20V/2^{16}/3k = 0.1uA$
 Max voltage output (infinite load) is $40/4^{3*14.8V} = +/-13.76V$

gain is $R_{sense} * (1+49.4k/R_g) = 100 * (1+49.4k/1.8k) = 2.87 mV/uA$
 Voltage output range is thus $+/-3333 * 0.00287 = +/-9.57V$
 output needs to be within $+/-10V$
 current sensing resolution is $10000 mV / 2^{12} / (2.87mV/uA) = 0.85uA$