

The DRV8825 features adjustable current limiting, overcurrent and overtemperature protection resolutions (down to 1/32-step). It operates from 8.2 – 45 V and can deliver up to approximately 2.2 A per coil with sufficient additional cooling via a heat sink or forced air flow (rated for up to 2.2 A per coil with sufficient additional cooling).

Features:

1. Simple step and direction control interface
2. Six different step resolutions: full-step, half-step, 1/4-step, 1/8-step, 1/16-step, and 1/32-step
3. Can interface directly with 3.3 V and 5 V systems
4. Over-temperature thermal shutdown, over-current shutdown, and under-voltage lockout
5. Short-to-ground and shorted-load protection
6. 4-layer, 2 oz copper PCB for improved heat dissipation
7. Exposed solderable ground pad below the driver IC on the bottom of the PCB
8. Module size, pinout, and interface match those of our A4988 stepper motor driver carrier (see the bottom of this page for more information)
9. Adjustable current control lets you set the maximum current output with a potentiometer. Supply voltages above your stepper motor's rated voltage to achieve higher step rates
10. Intelligent chopping control that automatically selects the correct current decay mode (active, passive, or mixed decay)
11. 45 V maximum supply voltage
12. Built-in regulator (no external logic voltage supply needed)