As part of Nidec’s diverse lineup of Ultra Low Voltage drives, the GreenDrive 2.0 features an optimized layout that easily integrates with the Nidec HRW 3.3 motor. The GreenDrive 2.0 can be utilized to achieve accurate and precise motion control in a wide variety of applications.

**Input Voltage:** 10 Vdc – 55 Vdc

**Continuous Current:** 12 Amps

**Peak Current:** Up to 25 Amps

**Motor Speed:** Up to 10,000 rpm

**Warranty:** One year limited warranty

### Motor Options
- Trapezoidal or sinusoidal commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 6, 8, or 10 pole motors
- Hall effect sensors
- Incremental A/B encoder
- Digital output for brake
- Digital output for dynamic braking/chopper resistor support

### Safety Features
- Over current protection
- Under/over voltage protection
- Reverse polarity protection
- Internal thermal protection
- External NTC connection
- \( i^2t \) protection
- Over speed protection
- Encoder fault protection

### Communication Interfaces and I/O
- CANopen - DS301 and DS402
- 0-5V
- PWM
- Digital I/O: 3 inputs/2 outputs (5V non-isolated)
- Analog I/O: 1 single ended input (0-5V)
- 5V supply output: 150mA

### Environment Ratings
- Storage: -40°C to 85°C
- Operating temperature: -30°C to 50°C
- Withstands 95% relative humidity (non-condensing)

### Dimensions and Weight
- Diameter: 79.75 mm
- Height: 38 mm
- Weight: 68 g (2.4 oz) [.15 lb]

### Agency Approvals
- IEC/UL 61800-5-1

### Operating Modes
- Homing
- Profile velocity
- Velocity
- Profile position
- Position
- Torque

### Programming
- Field programmable firmware
- Nidec Motion Control Studio - setup and commission tool