



## 48v 300w Bldc Motor Driver With Hall Sensor Controller

### Basic Information

- Place of Origin: Changzhou, China
- Brand Name: Hontru
- Certification: CE ISO RoHS
- Model Number: HC57BLF
- Minimum Order Quantity: 1 set
- Price: Negotiation
- Packaging Details: Foam+Hard Carton or Wooden Case+Waterproof film
- Delivery Time: 5-10 working days
- Payment Terms: T/T, PayPal, Western Union
- Supply Ability: 10000pcs/month



### Product Specification

- Name: 57mm Round Brushless Motor
- Number Of Poles: 4
- Number Of Phases: 3
- Rated Voltage (VDC): 24
- Rated Speed (rpm): 3000
- Winding Method: Y
- Hall Distribution Angle: 120°
- Insulation Level: B
- Insulation Resistance: 100MΩ Min.500VDC
- Dielectric Strength: 600VAC,1Min.
- Maximum Radial Load: 28N
- Maximum Axial Load: 10N
- Highlight: 300w bldc motor, 48v brushless motor, 48v bldc motor controller



## Product Description

### 57mm Square Brushless Motor

#### Specification

| Item                    | index parameter  |
|-------------------------|------------------|
| Winding method          | Y                |
| Hall distribution angle | 120°             |
| Insulation level        | B                |
| Insulation resistance   | 100MΩ Min.500VDC |
| Dielectric strength     | 600VAC,1Min.     |
| Maximum radial load     | 28N              |
| Maximum axial load      | 10N              |

| Wiring              |       |              |
|---------------------|-------|--------------|
| Function Definition | Color | Wire Gauge   |
| +5V                 | Red   | AWG26 UL1430 |
| Hu                  | White |              |
| Hv                  | Blue  |              |
| Hw                  | Green |              |
| GND                 | Black |              |
| U                   | White | AWG22 UL1430 |
| V                   | Blue  |              |
| W                   | Green |              |

| Motor model                            | HC57BLY 47 | HC57BLY 52 | HC57BLY 62 | HC57BLY 72 | HC57BLY 92 | HC57BLY1 12 |
|----------------------------------------|------------|------------|------------|------------|------------|-------------|
| Number of poles                        | 4          |            |            |            |            |             |
| Number of phases                       | 3          |            |            |            |            |             |
| Rated voltage (VDC)                    | 24         |            |            |            |            |             |
| Rated speed (rpm)                      | 3000       |            |            |            |            |             |
| Rated torque (N.m)                     | 0.07       | 0.11       | 0.18       | 0.22       | 0.33       | 0.45        |
| Rated current (A)                      | 1.5        | 2          | 3.5        | 4          | 6          | 8           |
| Rated power (W)                        | 25         | 41         | 57         | 79         | 110        | 140         |
| Peak torque (N.m)                      | 0.21       | 0.33       | 0.54       | 0.66       | 0.99       | 1.35        |
| Peak current (A)                       | 4.5        | 6          | 10.5       | 12         | 18         | 24          |
| Back EMF constant (Vrms/Krpm)          | 6          | 6.3        | 6.4        | 6.2        | 6          | 6.5         |
| Torque constant (N.m/A)                | 0.058      | 0.062      | 0.06       | 0.059      | 0.057      | 0.065       |
| Moment of inertia (g.cm <sup>2</sup> ) | 30         | 45         | 60         | 120        | 180        | 240         |
| Body length L (mm)                     | 47         | 52         | 62         | 72         | 92         | 112         |
| Weight (kg)                            | 0.33       | 0.45       | 0.65       | 0.8        | 0.95       | 1.2         |

#### Outline:



