

# 24V 250W Brushless DC Motor Controller for Electric Vehicles

This 24V 250W BLDC motor controller is designed for electric vehicles. The controller features an aluminum alloy casing for heat dissipation and protection and includes wire connections for power, motor phases, throttle, and brakes.



## Overview

### Versatile BLDC Motor Controller

This brushless DC motor controller is engineered for small electric vehicles, including e-bikes and scooters. It supports a flexible operating voltage range and offers extensive customization settings to optimize vehicle performance. Housed in an aluminum alloy casing, the unit provides superior heat dissipation and durability for consistent, reliable operation.

## Electrical Specifications

### Key Performance Metrics

|                                      |                                      |                              |                                 |
|--------------------------------------|--------------------------------------|------------------------------|---------------------------------|
| <b>24 V</b><br>Min Operating Voltage | <b>60 V</b><br>Max Operating Voltage | <b>18 A</b><br>Limit Current | <b>300 W</b><br>Max Motor Power |
|--------------------------------------|--------------------------------------|------------------------------|---------------------------------|

Phase Angle Compatibility: 60°, 120°

## Display and Connectivity

### Display Capabilities

- Speed display
- Power level indicator
- Total and single mileage tracking
- Headlight status
- Gear position
- Fault diagnostics
- Cruise control status

### App Integration

Bluetooth Connectivity • App-Based Lock • Remote Monitoring

## Customization and Settings

### Configurable Parameters

| Parameter        | Functionality                             |
|------------------|---|
| Units            | Kilometers / Miles switch                 |
| Start Mode       | Zero / Non-zero start selection           |
| Cruise           | Automatic cruise control toggle           |
| Power Management | Automatic sleep timer adjustment          |
| Performance      | Speed limit and wheel diameter adjustment |