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The Erevsyn BLDC smart controller is designed for hall-sensor equipped Brushless DC motors. This controller precisely monitors the position of the three coils in a brushless motor and controls the rotation of the motor.

This BLDC controller features an electronic braking system, speed limiting control, regenerative braking system and many other advanced features.

## Features

- ✓ Electronic Braking System
- ✓ Throttle Error Protection
- ✓ Battery Low Voltage & Over Voltage Protection
- ✓ Over Heat Protection
- ✓ Robust Cabinet with better cooling system
- ✓ Regenerative Braking (Optional)
- ✓ Speed Limiting (Optional)

## Technical Specifications

General	Motor Type	Brushless DC Motor (BLDC)
	Motor Power Range	1 hp - 2 hp Motor
	Commutation Angle	120 degree
	Rated DC Voltage	48V
	Working Frequency	16 Khz
	Standby Energy Consumption	< 2.5W
	Hall Sensor Current	30mA
	Standard Pedal Input	0.8 - 3.6 V (Hall Sensing)
	Brake Signal	12V
	Brake Type	Soft Brake / Hard Brake
	Battery High/Low Cut Off	60V / 40 V
	Constant Current	50A
	Peak Current	150A
	MOSFET (pcs)	24
	Max. Supported Speed	3300 rpm (with Hall Sensor)
Hall Sensor	Yes	
Batteries & Runtime	Battery Type	SMF, Automotive, Tubular
	Typical Recharge Time	10 Hour(s)
	Battery Capacity	65 AH - 150 AH
Physical	Dimensions	2.83" H x 4.65" W x 8.66" D 72 x 118 x 220mm
	Net Weight	3.81 lbs (1.73 kgs)
	Shipping Weight	4.18 lbs (1.9 kgs)
Environmental	Operating Temperature Range	0°C to +50°C (32°F to 122°F)