



# CC 1000

*High Performance* Motor Controllers



# Overview



From rugged terrain to utility-grade platforms, the CC-Series controllers deliver intelligent torque, smart adaptability, and robust integration. Built on powerful VESC-based firmware, they support both sensed and sensorless control—including ABI, Hall, resolver, and magnetic encoders—offering precision performance across high-load electric vehicles and wide voltage ranges.

With advanced features like OTA tuning, adjustable protection, and integrated 60W DC-DC power, the CC1000 excels in reliability and control across ATVs, dirt bikes, cargo EVs, and 3-wheelers.

## Key Features



4-quadrant operation



Multiple speed modes



Variable regenerative braking



Cruise modes (ADC/PPM)



Traction control



Hill assist



Adjustable protection logic



Multiple control modes

# Supported Applications



Full-Size  
Dirt Bike



Full-Size ATV



Golf Cart



3-Wheeler



Mini Tractor



Small EV  
Four-Wheeler



Pit Bike



Electric Boat  
/ Pods



Electric Scooter



DIY EV Projects



Mini Winch



RC Aircraft

# Technical Specifications



## Electrical, Environmental & Functional

Parameter	CC1000
Voltage	168V
Battery Current	500A
Phase Current	1000A
ERPM	150k
Operating Temperature	-10°C to 75°C
IP Rating	IP67
Motor Support	BLDC, FOC (Sine), Sensorless
Temperature Sensor	NTC and PTC
Position Sensor	SIN-COS, ABI, HALL, AS5047, AS5048A, Sensorless
Operation Modes	Sensored & Sensorless
Switching Frequency	20 kHz

# Technical Specifications



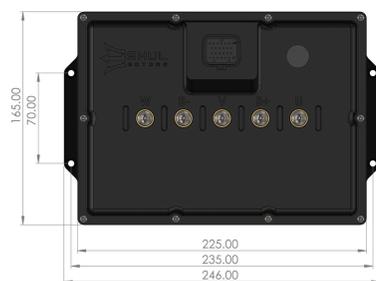
## Physical, Interface & Performance

Parameter	CC1000
Max Encoder Resolution	8192
Efficiency	Up to 99%
Communication	USB, CAN, UART, BT
Dimensions	246 × 165 × 82 mm
Weight	4.73 kg
Cooling Method	Convection & Forced Air
Power Terminals	14mm Circular Busbar
Analog Inputs	ADC1, ADC2
Digital Inputs	SIN-COS, ABI, HALL, AS5047, AS5048A, Resolver
Digital Output	AUX 1
12V Power Supply	60W (135V → 12V)

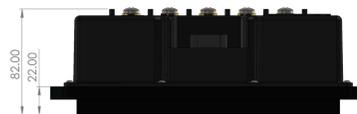
# MECHANICAL DRAWINGS



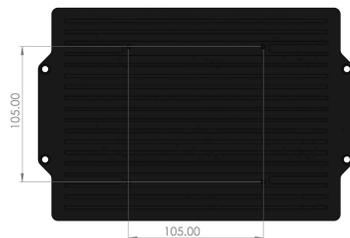
## CC1000 MOTOR CONTROLLER — DIMENSIONAL SPECIFICATIONS



Top View



Side View



Bottom View



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### Primary Dimensions

Length	246 mm
Width	165 mm
Height	82 mm

### Mounting Specifications

Mount Spacing	105 mm
PCB Clearance	225 mm
Terminal Span	235 mm



# Thank You

For OEM & Bulk Orders, Contact Our Team



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