



C 1000

High Performance Motor Controllers



Overview



Engineered for high-performance EV platforms, the C-Series controllers offer exceptional torque delivery, high-speed control precision, and solid thermal resilience. The C1000 runs on optimized VESC-based firmware and supports sensed, sensorless, and high-resolution encoder feedback—ensuring superior control under demanding load conditions.

With features like adaptive motor protection, OTA tuning, real-time logging, and multi-mode control, the C1000 performs reliably in dirt bikes, cargo EVs, large ATVs, and medium commercial EV platforms.

Key Features



4-quadrant operation



Multiple speed modes



Variable regenerative braking



Cruise modes (ADC/PPM)



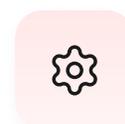
Traction control



Hill assist



Adjustable protection logic



Multiple control modes

Supported Applications



Full-Size
Dirt Bike



Full-Size ATV



Golf Cart



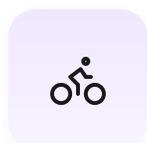
3-Wheeler



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	C1000
Voltage	36 to 92V
Battery Current	500A
Phase Current	1000A
ERPM	150k
Operating Temperature	-25°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	C1000
Max Encoder Resolution	8192
Efficiency	Up to 99%
Communication	USB, CAN, UART, BT
Dimensions	248 × 127 × 73
Weight	3.35 kg
Cooling Method	120 mm Fan Mount / Passive / Liquid Cooling
Power Terminals	12mm Circular Busbar
Analog Inputs	2 (ADC1, ADC2)
Digital Inputs	Hall, ABI, Sin-Cos, AS5047/48A
Digital Output	AUX 1
12V Power Supply	12V 5A onboard

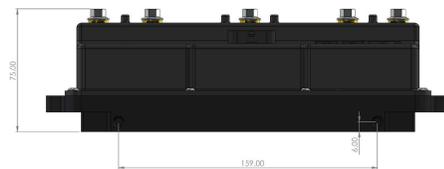
MECHANICAL DRAWINGS



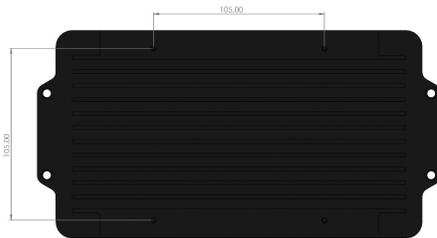
C1000 MOTOR CONTROLLER — DIMENSIONAL SPECIFICATIONS



Top View



Side View



Bottom View



Primary Dimensions

Length	248 mm
Width	172 mm
Height	70 mm

Mounting Specifications

Mount Spacing	134 mm
Secondary Mount Spacing	105 mm
Mount Hole:	M6 × 1.0 mm



Thank You

For OEM & Bulk Orders, Contact Our Team



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