



CL 700

High Performance Motor Controllers



Overview



From rugged terrain to commercial platforms, the CL-Series controllers deliver powerful torque, rock-solid stability, and smart integration. Built on robust VESC-based firmware, they support sensed, sensorless, resolver, and magnetic encoders—offering precise control for high-load electric vehicles across a broad voltage range.

Designed for demanding OEM and builder use, the CL700 includes intelligent DC-DC power, a user-friendly GUI, and field-tested durability—making it the smart choice for mid-level high-torque EV builds and industrial mobility.

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



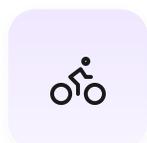
3-Wheeler



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	CL700
Voltage	36 to 126V
Battery Current	350A
Phase Current	700A
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	40 kHz

Technical Specifications



Physical, Interface & Performance

Parameter	CL700
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

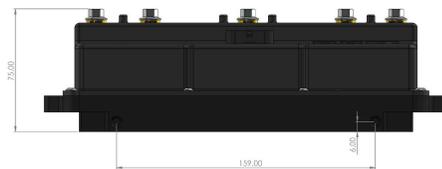
MECHANICAL DRAWINGS



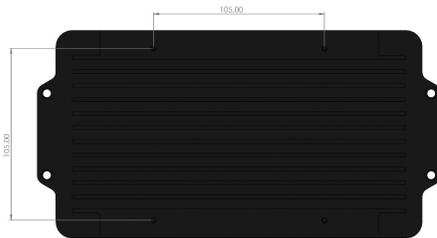
CL700 MOTOR CONTROLLER — DIMENSIONAL SPECIFICATIONS



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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