



C 700

High Performance Motor Controllers



Overview



Built for mid-range electric vehicles, the C-Series controllers deliver high torque output, strong thermal stability, and intelligent feature integration. The C700 utilizes VESC-based firmware with support for sensed, sensorless, and encoder-based control, enabling smooth and precise operation across varied terrain and load conditions.

With adjustable protection, OTA configurability, and integrated diagnostics, the C700 is trusted in applications such as ATVs, go-karts, 3-wheelers, and general utility EVs.

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



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	C700
Voltage	36 to 92V
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	20 kHz

Technical Specifications



Physical, Interface & Performance

Parameter	C700
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

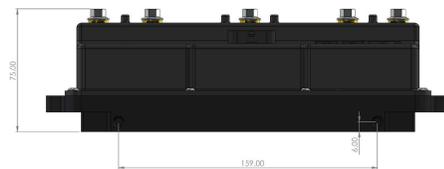
MECHANICAL DRAWINGS



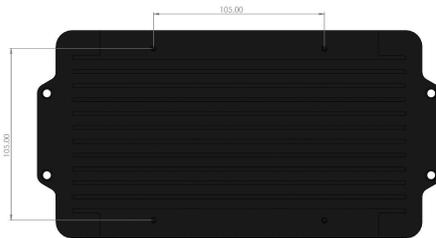
C700 MOTOR CONTROLLER — DIMENSIONAL SPECIFICATIONS



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



Email

marketing@3shulmotors.com



Phone

+91 9468719150



Website

www.3shulmotors.com