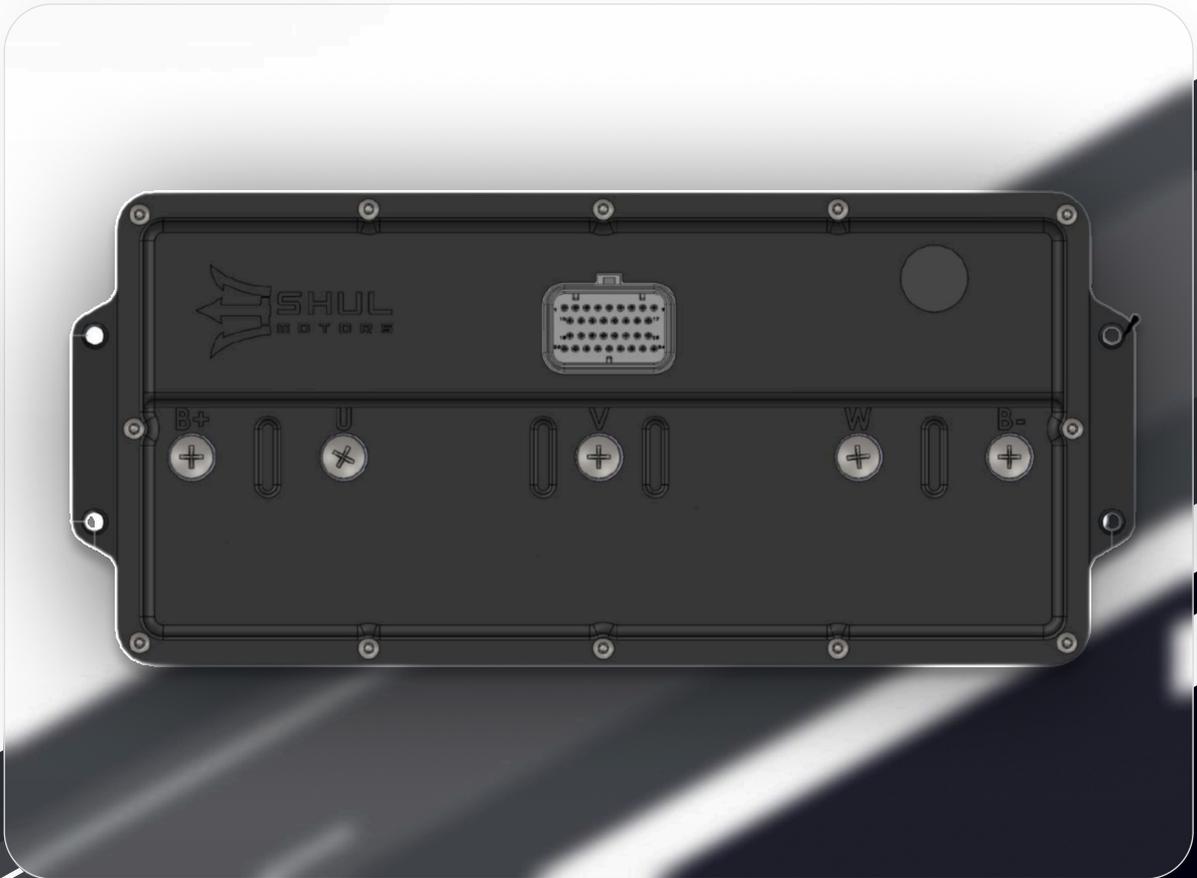




C 1400

High Performance Motor Controllers



Overview



Designed for heavy-duty electric vehicles, the C-Series controllers deliver maximum torque, stable high-current performance, and intelligent adaptability. Using advanced VESC-based firmware, the C1400 supports sensed, sensorless, resolver, and magnetic encoder systems—offering precise control even in industrial-grade load environments.

Equipped with OTA tuning, enhanced thermal protection, and real-time diagnostics, the C1400 excels in full-size ATVs, utility EVs, cargo haulers, 3-wheelers, and commercial mobility systems.

Key Features



4-quadrant operation



Multiple speed modes



Variable regenerative braking



Cruise modes (ADC/PPM)



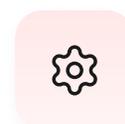
Traction control



Hill assist



Adjustable protection logic



Multiple control modes

Supported Applications



Full-Size
Dirt Bike



Full-Size ATV



Golf Cart



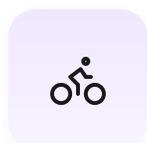
3-Wheeler



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	C1400
Voltage	36 to 92V
Battery Current	700A
Phase Current	1400A
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



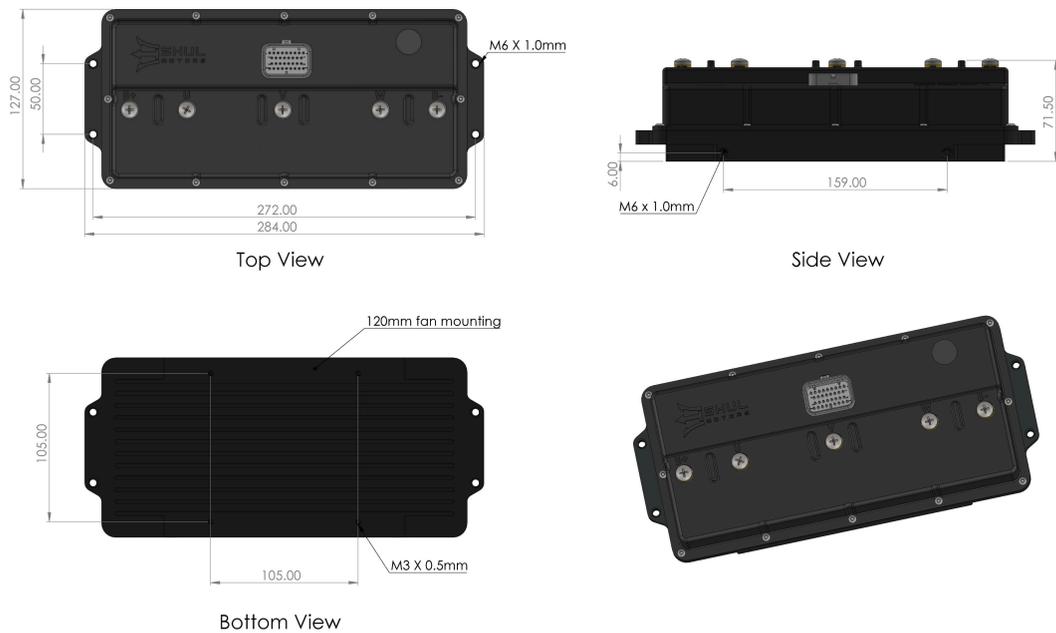
Physical, Interface & Performance

Parameter	C1400
Max Encoder Resolution	8192
Efficiency	Up to 99%
Communication	USB, CAN, UART, BT
Dimensions	284 × 127 × 72
Weight	3.71 kg
Cooling Method	120 mm Fan Mount / Passive / Liquid Cooling
Power Terminals	14mm 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



C1400 MOTOR CONTROLLER — DIMENSIONAL SPECIFICATIONS



Primary Dimensions

Length	284 mm
Width	127 mm
Height	72 mm

Mounting Specifications

Main Mount Spacing (horizontal)	272 mm
Bottom Mount Spacing	105 mm
Base Foot Height	6 mm



Thank You

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