



Motor Controller MC110 2.0

Designed for all types of air, ground and sea vehicles. MC110 is the perfect solution for high-demanding operations providing exceptional levels of safety and reliability. Capable of operating with voltages up to 800V and currents up to 200A, it enables a wide range of applications and systems and optimum performance.

Developed in compliance with the stringent aviation standards DO178C and DO254. The MC110 is capable of controlling sensored and sensorless electric motors for eVTOL, vehicles and industry.



VERONTE
MOTOR CONTROLLERS

APPLICATIONS

01 | eVTOL & UAM 

02 | Ultralight Aircraft 

03 | Unmanned Drones 

04 | Ground Transportation 

05 | Maritim Vehicles 

06 | Industry & Robotics 

Main

FEATURES



65 TO 800V



UP TO 200A



SENSORED
OR SENSORLESS



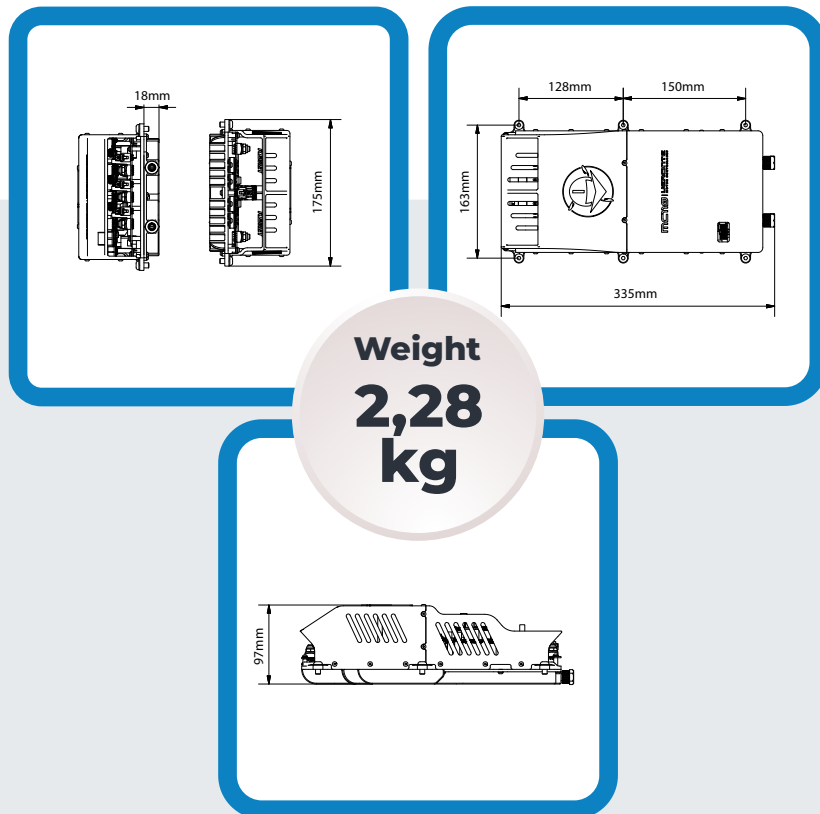
WATER
COOLING



FLIGHT
CERTIFICATION



Max continuous power	110kW
Input voltage range	65 - 800V
Max current*	200A (continuous) 280A (5s peak)
Redundant control	Yes
Control customization	Motor parameters FOC Parameters Open loop/Close loop start up
Advanced setup	Fault detection limits Switching frequency Regenerative mode
Communications	1x Isolated CAN FD Bus 1x Isolated CAN 2.0 Bus 1x OPTO PWM RS232 RS485 USB
Telemetry	Motor & ESC temperature Control variables RPM Input voltage In/Out current
Motor control	Sensorless or sensed (Digital incremental encoder Analog SIN/COS)
Aircraft certification	DO178C Software DO254 Hardware DAL B DO160
Cooling	Water cooling
Fault detection	Input/Output over-current Input under/over-voltage Over-temperature
Additional features	Reversal operation Battery disconnection In-rush current limitation
Safeguard	Current imbalance Short-circuit Ground fault



Sep, 2023

PN
[P008356] Veronte Motor Controllers - MC110 v2.0
*Depends on voltage and switching frequency