

Veronte eVTOL Motor Controller

	MC280	MC25K
Input voltage range	12-75V	100-550V
Input current (Cont)	280A	200A
Input current (5s Peak)	300A	230A
Sensorless Motors	Yes	Yes
Sensored Motors	Hall sensors Digital incremental encoders	Hall sensors Digital incremental encoders Analog SIN/COS
Cooling	Air (Fan optional)	Air (Fan optional)
Configurable	Programmable acceleration curve Motor direction Overvoltage threshold Overcurrent threshold Overtemperature threshold Max. RPM (limit) Braking force Duty Cycle	Programmable acceleration curve Motor direction Overvoltage threshold Overcurrent threshold Overtemperature threshold Max. RPM (limit) Braking force Duty Cycle
Communications	2x CAN Bus 3x PWM UART TTL 3.3V	2x Isolated CAN Bus 3x PWM, 1x OPTO PWM RS232, RS485, USB
Redundant Control	Yes	Yes
Telemetry	ESC temperature RPM Input Voltage Input/Output current	Motor & ESC temperature RPM Input Voltage Input/Output current
Data recording	No	Yes
Regenerative Brake	Yes	Yes
Certification	DO178C Software DAL B DO254 Hardware DAL B	DO178C Software DAL B DO254 Hardware DAL B
Protection	IP65 Aluminium	IP65 Aluminium
Documentation	Acceptance Test Report (ATP) Environmental Stress Screening (ESS) Certificate Of Compliance (COC) MTBF (Optional) Certification datapack (optional)	Acceptance Test Report (ATP) Environmental Stress Screening (ESS) Certificate Of Compliance (COC) MTBF (Optional) Certification datapack (optional)
Weight	740g	1600g
Dimensions	91x148x46 mm	150x150x80 mm
Capacitor Options		Up to 110V (170x60x118mm - 900 g) Up to 400V (170x60x118mm - 470 g) Up to 550V (170x60x118mm - 410 g)
Price	1500 EUR	1900 EUR

MOQ	5	5
Delivery time	8 weeks	12 weeks