

Empowered by **FRIWO**

MOTOR CONTROLLER

Our intelligent motor controller has enjoyed great success in electric scooter sharing and motor sports since 2014. In Europe more than 4000 rental vehicles are on the road that gathered millions of kilometers and a huge amount of experience. Thanks to two full race seasons in the WEC LMP1 class including the 24h of Le Mans race, the controller has proven its durability and special robustness.



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■ HIGH QUALITY MOTOR CONTROLLER

The motor control for brushless electric drives was developed for use in light electric vehicles. Due to the small form factor, the high power up to 12kW and the best possible efficiency, we offer a high degree of freedom in vehicle development. Thanks to Bluetooth functionality and our Emerge EV App, we deliver a high-quality display solution that fits right in, basically for free.

We have developed 100% of the hardware and software ourselves and are therefore able to react quickly to customer requirements..

■ OVERVIEW

Supply voltage	14V - 65V
Phase current	300A
Motor types	PMSM
Control algorithm	Field oriented control with flux weakening
Functions	Automatic teach-in, four ride modes, reverse gear, boost, display control, smartphone app
Position feedback	Hall sensor
Analog inputs	2
Digital inputs	2
Communication	CAN, Bluetooth
Diagnostic interface	USB, CAN
Diameter	155mm
Height	45mm
Weight	914g

■ VIEWS

