

Advanced solutions for battery powered vehicles and boats

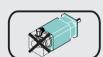


SAC52

Motor controller for vehicles and boats

MAIN FEATURES

- 440V
- **IP65**











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- State of the art technology
- Compact design
- Easy setup
- Sensorless vector control
- Speed or torque control
- Set-point value analog or via CAN bus
- Autotuning and self-test functions
- Battery management
- Liquid cooling



SAC51 - 510 - HP Type

Nominal voltage 96 V to 440 V

Supply voltage 80 V to 510 V

Rated output current 400 A

Maximal output current 520 A

Rated power 205 kVA

Maximal power 308 kVA





Technical specifications

Supply voltage Output frequency Interfaces	80 V to 510 V (12 V to 15 V for control stage) 0 Hz to 400 Hz • CAN • RS232 interface for setup with the PC Software • Motor temperature monitoring over CAN • HALL position sensor interface / Resolver interface (SSI)
Control method	Sensorless vector control Targue or appeal control
Operating functions	Torque or speed control Speed mode, torque mode, EV mode
Braking functions	Generator braking
Protection functions	Undervoltage, overvoltage, overcurrent, thermal motor protection, overtemperature, protection against battery deep-discharge and over-charge application specific protection functions possible
Motor types	Asynchronous motors, permanent magnet synchronous motors
IP enclosure rating Ambient temperature Cooling type Coolant temperature Size (W x D x H) in mm Weight (without cables)	IP65 -25°C to +60°C Liquid -25°C (with non-freezing coolant) to 40°C (min. flow 16 ℓ/min) 350 x 415 x 160 14.7 kg
	 GD2 display, control and battery monitoring unit HV2 data acqusition unit C60D6 wiring harness SAC-USB2 galvanically isolated programming adapter

