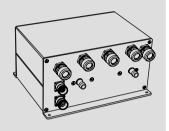


### Advanced solutions for battery powered vehicles and boats



# SAC50

## Motor controller for vehicles and boats

#### **MAIN FEATURES**



- 140kVA
- IP54











- I 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



### **TECHNICAL CHARACTERISTICS**

Battery voltage 96 V to 370 V (max. 440 V)

Rated output current 250 A

Maximal output current 280 A

Rated power 110 kVA

Maximal power 140 kVA

### Technical specifications

E	lectr	ical	l d	ata

Supply voltage 80 V to 440 V (12 V to 15 V for control stage)

Output frequency 0 Hz to 400 Hz

Interfaces • CAN

RS232 interface for setup with the PC Software

Motor temperature monitoring over CAN

HALL position sensor interface / Resolver interface (SSI)

**Functions** 

Control method • Sensorless vector control

· Torque or speed control

Operating functions Speed mode, torque mode

Braking functions Generator braking

Protection functions Undervoltage, overvoltage, overcurrent, thermal motor protection,

overtemperature, protection against battery deep-discharge and over-charge

Motor types Asynchronous motors, permanent magnet synchronous motors

Mechanical data

IP enclosure rating IP54

Ambient temperature -25°C to +60°C

Cooling type Liquid

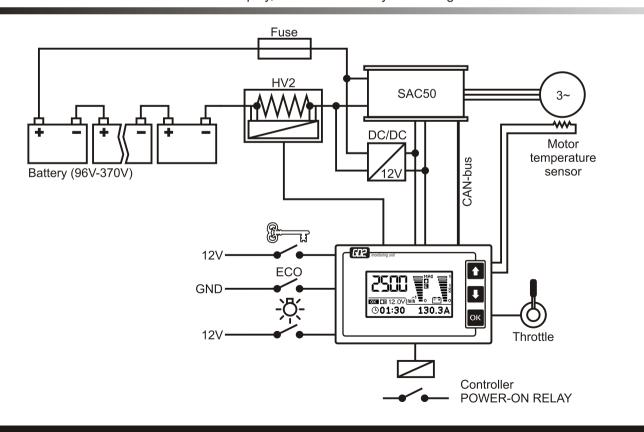
Coolant temperature -25°C (with non-freezing coolant) to 40°C (min flow 7 L/min)

Size (L x W x H) in mm 300 x 155 x 245

Weight (with cables) 13 kg

**Optional accessories** 

- SACTERM setup, parametrization and diagnostics software
- · GD2 display, control and battery monitoring unit



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