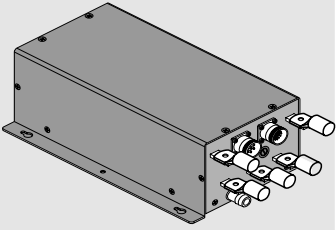


Advanced solutions for battery powered vehicles and boats



SAC4W

Motor controller for small vehicles and boats

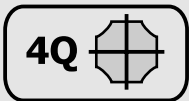
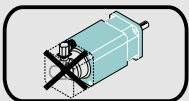
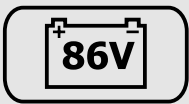
MAIN FEATURES

- 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



TECHNICAL CHARACTERISTICS

	SAC4W-48V	SAC4W-HV
Battery voltage	24 V - 48 V	48 V - 86 V
Supply voltage	21 V - 60 V	40 V - 102 V
Rated output current	220 A	220 A
Maximal output current	280 A	280 A
Rated power	14.3 kVA	25.0 kVA
Maximal power	19.5 kVA	33.0 kVA



Technical specifications

Electrical data

Output frequency	0 Hz to 400 Hz (optionally up to 600 Hz)
Interfaces	<ul style="list-style-type: none"> • CAN • RS232 interface for setup with the PC Software • Motor temperature monitoring (PTC) • HALL position sensor interface

Functions

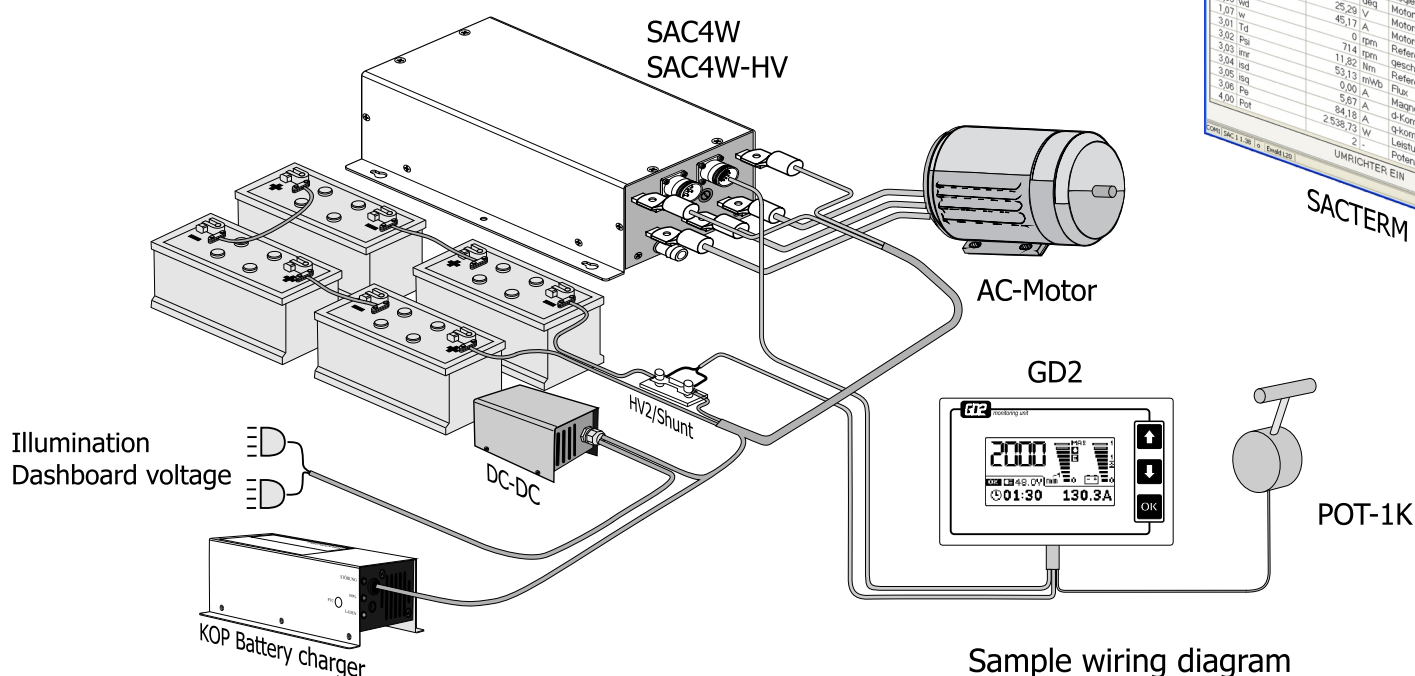
Control method	<ul style="list-style-type: none"> • Sensorless vector control (or combined with speed/position sensor) • Torque or speed control
Operating functions	Speed mode with analog input, torque mode with analog input, constant speed operation, EV mode, CAN bus operation (speed or torque mode)
Braking functions	Generator braking (at speed limit, with analog input or with brake input)
Protections	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 with or without hall sensors

Mechanical data

IP enclosure rating	IP54
Ambient temperature	-25°C to +35°C
Cooling type	Liquid
Coolant temperature	-25°C (with non freezing coolant) bis 40°C (min flow 4 ℓ/min)
Size (D x W x H) in mm	325 x 175 x 110
Weight	5.4 kg

Accessories

- GD2 display, control and battery monitoring unit
- HV2 data acquisition unit (SAC4-HV only)
- C4DR6 or C60D6 wiring harness
- SAC-USB2 galvanically isolated programming adapter
- SACTERM setup, parametrization and diagnostics software



The desired performance features are binding only then if they were expressly agreed by contract.

www.piktronik.com

Piktronik d.o.o.
Cesta k Tamu 17, SI-2000 Maribor, Slovenia
E-mail: info@piktronik.com