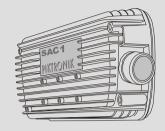


Advanced solutions for battery powered vehicles and boats



SAC1

Motor controller for small vehicles and boats

MAIN FEATURES

- 48V
- Compact design



Easy setup



Sensorless vector control

State of the art technology



Speed or torque control



Set-point value analog or via CAN bus



Autotuning and self-test functions



Battery management







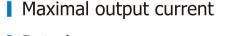
TECHNICAL CHARACTERISTICS



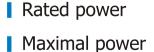
Battery voltage 24 V to 48 V DC



Rated output current 50 A (75 A Option)



2.8 kVA (4.2 kVA Option)



6.5 kVA

110 A



www.piktronik.com

Technical specifications

Electrical data 24 V to 60 V DC Supply voltage Output frequency 0 Hz to 400 Hz (optionally up to 600Hz) Interfaces RS232 interface for setup with the PC Software Motor temperature monitoring (PTC) HALL position sensor interface **Functions** Control method Sensorless vector control (or combined with speed/position sensor) Torque or speed control Speed mode with analog input, torque mode with analog input, constant speed Operating functions operation, EV mode, CAN bus operation (speed or torque mode) **Braking functions** Generator braking (at speed limit, with analog input or with brake input) Undervoltage, overvoltage, overcurrent, thermal motor protection, **Protections** overtemperature, protection against battery deep-discharge and over-charge Asynchronous motors, permanent magnet synchronous motors with or without Motor types hall sensors Mechanical data IP54 IP enclosure rating

-25°C to +35°C Ambient temperature 300 x 140 x 65 Size (L x W x H) in mm Weight 2,4 kg

Optional accessories

SACTERM setup, parametrization and diagnostics software

GD1 display, control and battery monitoring unit

GD1 ■601 MONITORING UNIT SACTERM POT-1K Illumination Dashboard voltage **AC-Motor** www.piktronik.com KOP Battery charger Sample wiring diagram SAC1