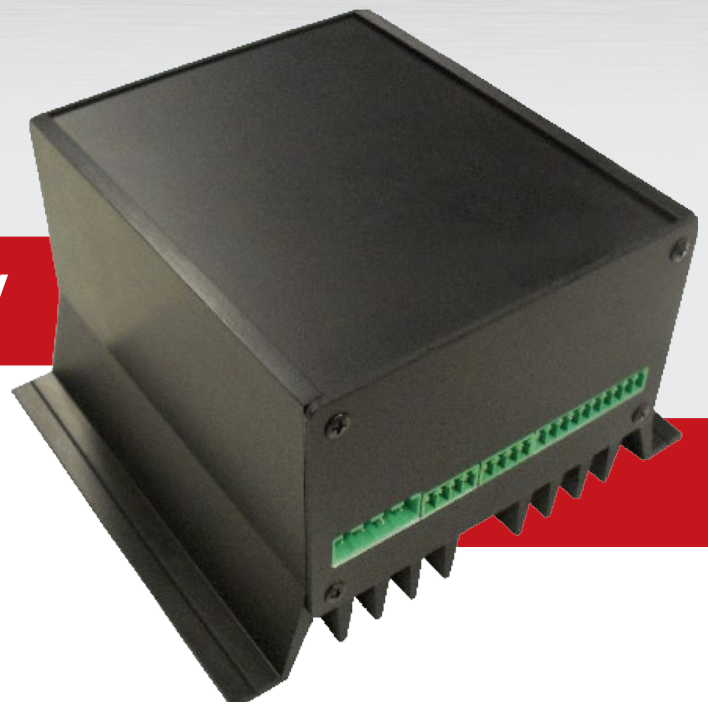# pironex
electronic and software solutions

piCAN-Charger-60V

Features

- EnergyBus Charger
- applicable for lithium-ion or lead-acid batteries
- fanless and compact
- intelligent charging
- high level of charge security
- Charge Voltage: 14.4V-56V
- Charge Current: max. 10A
- switchable 12V Aux-Output
- External Bus: CAN / LIN / I2C
- Internal Bus: CAN
- electronic door-opener support
- Bus-capable thanks to CAN-Bus
- multicolor LED and piezo summer for status indication

Overview

The piCAN-Charger-60V is an intelligent EnergyBus Charger for lithium-ion and lead-acid batteries, with a charge voltage between 14.4 and 56 volts and a maximum charge current of 10 amps in a compact, fanless enclosure.

Due to the independent communication with the device to be charged – either via EnergyBus (CAN), LIN or I²C – the optimum charging voltage and the optimum charge current are determined and provided. The compatibility with various bus systems guarantees the possibility of connecting the charger to a variety of bikes from different manufacturers.

Redundant monitoring of charging parameters ensures a high level of a charge security. The switchable 12V Aux-Output with the voltage sensing enables the activation of deeply discharged batteries and passive EnergyBus-devices.

The compact, fanless design enables the use of the charger in a rough environment.

An internal CAN-Bus-System allows the control of several piCAN-Chargers-60V by a host computer (e.g. piA-AM3505), supports an efficient power and door management, and permits determining and transmitting the charger's parameters via internet.

Applications:
- EnergyBus e-bikes and pedelecs
- EnergyBus public pedelecs and e-bikes rental systems
- EnergyBus battery systems

Details

Charge Voltage	14,4-56V
Charge Current	0-10A
Input Voltage Range	36-62V DC
Charge Method	CCCV, Trickle Charge
Application/Battery Type	Lithium-ion or lead-acid battery
Interfaces	Power in/out EnergyBus incl. 12V Aux-Output CAN-/ LIN-/ I²C-Bus 1x Electric door opener with Monitoring Contact 1x 12V-LED 1x Push-button
Indicators	multicolor LED piezo buzzer
Serviceinterface	Optional USB
Enclosure	Aluminium, black 124mm x 143mm x 80mm
Net Weight	920g
Temperature Range	-10°C - +70°C