

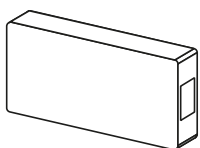


## MANUAL / SAFETY NOTES

### 6 A FAST CHARGER FOR EBV E-BIKE BATTERY WITH 36 V

#### Power information

For batteries with charge-end-voltage of 42,0 V with 6 A charge current  
Charging method: CC/CV ConstantCurrent- / ConstantVoltage method



177,0 x 86,0 x 33,0 mm

# CONTENT

Introduction.....	3
Disclaimer .....	3
Guarantee.....	3
CE declaration of conformity.....	4
Scope of delivery .....	4
Functions .....	4
Operation.....	5
Completion of the charging.....	5
Notes .....	5
Disposal .....	5
Datasheet Charger 10S 6 A.....	6



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# READ MANUAL CAREFULLY BEFORE USE!

**This manual is integral part of the product. It contains important information and safety notes. Keep it in range and give it away with the product to third party.**

## Introduction

We are glad, that you choose a charger of our product range. Please take some time to read this manual carefully. It contains detailed information about handling of your charger, it's functions and it's care, as well as it's usage. For further questions, do not hesitate to contact your dealer or get in contact with us via our homepage. Enjoy your new PowerPack and thank you for your confidence.

## Your Akku Vision Team

## Disclaimer

The Akku Vision GmbH assumes no responsibility for any loss, damages or costs arising from incorrect use and operation of the product, or related.

The obligation to pay any compensation, regardless of the legal reason, is limited to the directly involved E-Bike Vision products invoiced value, as far as this is permitted by law. This does not apply, if a liability according to binding legal rules due to intent or gross negligencem has to be respected. Furthermore, the Akku Vision GmbH assumes no responsibility for the completeness and accuracy of the documents that come with the battery, due to its different distribution channels.

## Guarantee

For our charger products, we accept the legally applicable guarantee beyond a 24 months warranty. To qualify for the 24 months guarantee, submission of the purchase receipt is required. Please contact your dealer from whom you purchased the product, in guarantee cases.

Excluded from the guarantee are malfunctions caused by:

- improper operations, e.g. overheating, incorrect connection, short-circuit or reverse polarity, immersion in water, cleaning with high pressure or steam cleaners, deep discharge, wrong polarity or drop
- use of non-approved accessories by the Akku Vision GmbH
- accidental or deliberate damages
- defectives due to normal tear
- operation outside the technical specifications
- damages that will not appear directly on the device, for which we assume the guarantee
- grease the contacts with contact spray or similar
- changes / repairs / modifications / installations or upgrades that have not be performed by the Akku Vision service center - use only our service center for repairs
- optical damages that justify no functional damages or which can be remedied by cleaning
- the costs for rental batteries

Removal of the charger's performace label leads to loss of warranty claim.

## CE declaration of conformity

The evaluation of the device was carried out by European harmonized directives. You therefore have a product that is related to it's construction meets the safety objectives of the European Community to the safe operation of equipment. The detailed CE declaration of conformity can be obtained from our service center.



## Scope of delivery

1. Charger with charge leads
2. AC mains cable

## Safety notes for fast-charger

- Fast-charger are no toys. Keep them away from children!
- Don't make any changes on the charger. Especially, consider that you are not allowed to open the charger, or rather modify it, otherwise you loose your warranty claim.
- Read these operating instructions carefully before use! Improper handling of Lithium Batteries may cause fire, explosion or chemical danger. Check battery manufacturer instructions.
- Only charge Li-Ion batteries. Do not charge lead-acid, NiCd, NiMh or primary cells!
- Do not use battery and/or charger for any other purposes.
- Connect the charger to a suitable mains supply, only. Disconnect the charger from mains and the battery pack if it is not in use for a longer time.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with charger. The appliance cleaning and user maintenance must not be made by children without supervision.
- The charger is designed for usage in a damp-free, dry and ventilated environment. Do not expose the charger to rain or hot conditions. Don't cover the charger. Please keep the charger clean and dry.
- Do not charge overheated battery packs. Battery packs must be at ambient temperature before charging. Stop the charging process if the battery gets to hot during charging (>55- 60°C).
- Do not use the charger if there are any signs of damage. Do not open the charger or carry repairs. Repairs must be carried from the Akku Vision service center, only.
- Do not leave the charger unattended during operation.
- Do not touch the charger and the battery with wet hands.
- Do not connect the charger and battery continuously.
- Lithium batteries must only be charged on a noncombustible underlay. As well as the charger.
- Charge Lithium batteries only under supervision!

## Functions

- This charger is suitable to charge a 36.0 up to 37.0 Volt, Li-Ion battery pack, with 10 cells in serial. The max. charge current is 6 A max.
- The charger has an overload, short circuit, overvoltage and wrong polarity protection. Overload protection (cut off if the output current is higher than 6.35A) Short circuit (cut off if there is a short circuit on the DC-side) Overvoltage protection (cut off if the output voltage is higher than 42.5V) Wrong polarity protection (cut off if battery with wrong polarity is connected to the charge cable)
- The charger has an internal temperature control that protects the charger at to high ambient temperature as well as continuous overload. If this happens the charger will reduce the output power and start turning it's fan.
- The fan will be deactivated, if the charger will switch to the so called constant-voltagemode. In this case (typ. Min. 4 battery LEDs are lighting) the power output of the charger is that low, that the fast-charger has not to be colled by the fan.

## Operation

1. Before first use please check the parameters of the charger and your battery according the rating label or the provided documentation to ensure the accordance.
2. Check if that the local main AC voltage level is suitable for the charger. InputVoltage: AC 100-240V, 50-60Hz InputCurrent: max. 4 A
3. Plug in the mains cable into an AC mains socket.
4. Now connect the DC cable to the battery pack. The green LED start flashing faster.

## Completion of the charging

1. If the battery is fully charged, the charger stopps.

The green LED lights permanently or the red LED is flashing! Turn off the charger and disconnect the wire from the battery and cap the charging plug.

Attention: Don't worry, if the charger's LED flashes red and all LEDs of the battery are lighting. That could mean that the Battery-Management-System of the battery stopped the charging process to balance the single cell voltages of the used cells. Your battery is fully charged anyway! This ist o enlarge your batteries life time and security!

## Notes

This charger has a wrong polarity protection. The right polarity is the base that the charger generates a charge voltage. Depending on the battery safety board, a battery pack that is discharged under it's nominal discharge voltage can't be charged again. In this case please contact Akku Vision GmbH.

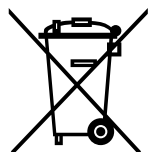
Error through short circuit or wrong polarity will be reset automatically maximum 1min after removing the Problem.

The device has a temperature controll unit which will protect it against overheating and continuous overload. In this case, the ouput will reduced until a stable operating temperature is realized.

## Disposal

Electrical equipment marked with the cancelled waste bin symbol must not be discarded in the standard household waste; instead it must be taken to a suitable specialist disposal system.

In the countries of the EU (European Union) electrical equipment must not be discarded via the normal domestic refuse system (WEEE - Waste of Electrical and Electronic Equipment, directive 2012/19/EU). You can take unwanted equipment to your nearest local authority waste collection point or recycling centre.



There the equipment will be disposed off correctly and at no cost to you. By returning your unwanted equipment you can make an important contribution to the protection of the environment.

## Datasheet Charger 10S 6 A

for batteries with charge-end-voltage of 42,0 V

Pack-configuration: 10S Li-Ion cells  
Charging method: CC/CV - ConstantCurrent / ConstantVoltage method

### Size

Length: 177 mm  
Width: 86 mm  
Height: 33 mm  
Weight: 560 g

Input voltage range: 100 Vac to 240 Vac  
Input current: max. 4 A  
Input frequency: 50 – 60 Hz

Output voltage: 42,0 +/- 0,3 V  
Output current: max. 6,0 +/- 0,35 A

Efficiency: > 94 %  
Temperature range: 0 – 25° C  
Humidity: 20 – 90 %  
EMC: DIN-EN 55015 CLASS B  
Safety-Standards: EN60950 and DIN EN 60335-2-29

### Safety-Features

Overload protection: yes  
Inverse-polarity protection: yes  
Short circuit protection: yes  
Timer: max. 10 hours

### LED Indication

none

### Site charge connector

Length: approx. 70 mm  
Diameter: approx. 18 mm

Pinning:

