



# User Manual

**ACTIV  
ENERGY**

## CHARGER 4.0 A

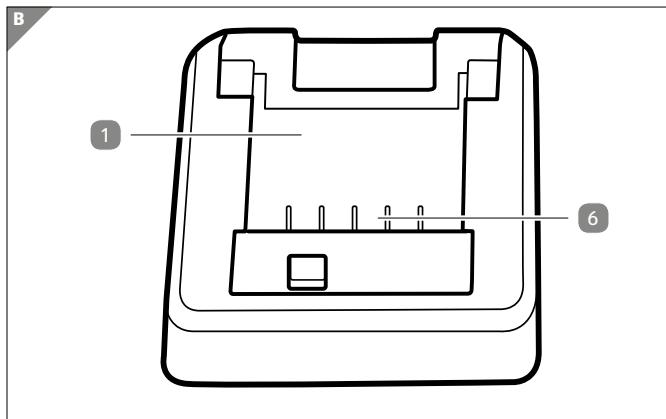
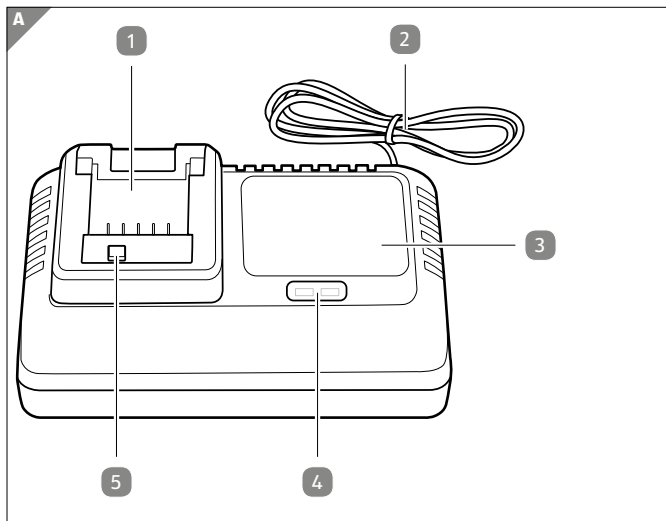
AEC 20 - 4.0lb

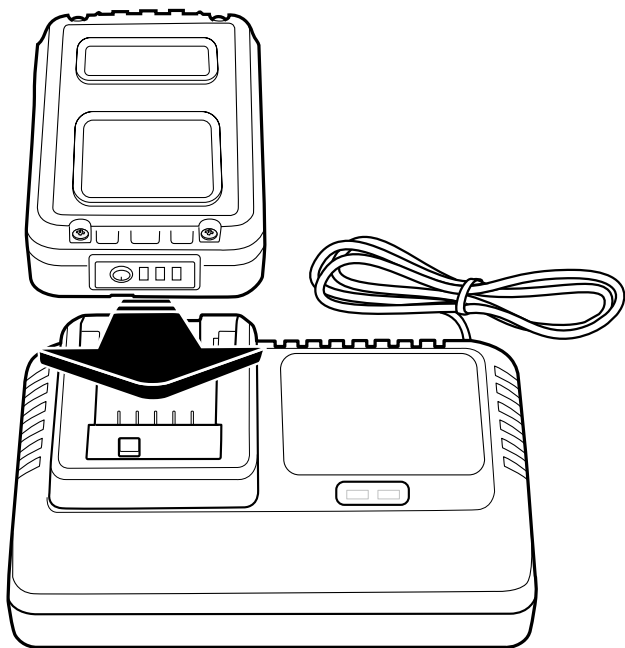


**Original instructions**

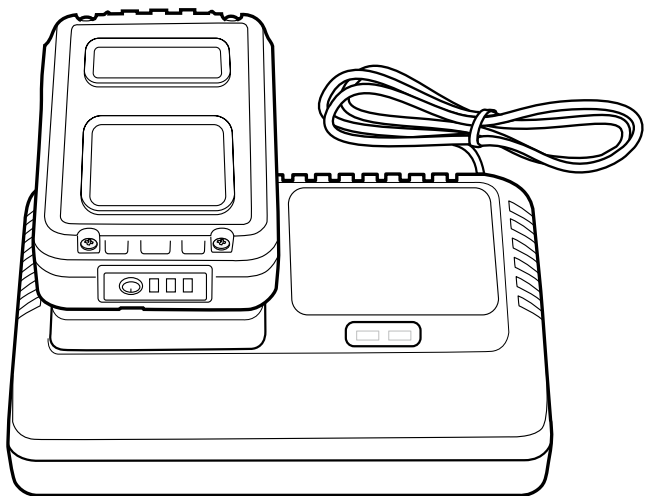
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## Package contents/device parts

- 1 Battery slot
- 2 Mains cord
- 3 Charger
- 4 Status indicator
- 5 Lock
- 6 Contacts

# General information

## Reading and storing the user manual



This user manual accompanies the Charger 4.0 A (from now on simply referred to as “charger”). It contains important information about setting up and using the device.

Before using the charger, read the user manual carefully. This particularly applies to the safety instructions. Failure to follow this user manual may result in serious injury or damage to the charger.

The user manual is based on the standards and rules in force in the European Union. When abroad, you must also observe country-specific guidelines and laws.

Store the user manual for future use. Make sure to include this user manual when passing the charger on to third parties.

## Explanation of symbols

The following symbols and signal words are used in this user manual, on the charger or on the packaging.



This signal symbol/word designates a hazard with a moderate degree of risk which may lead to death or severe injury if not avoided.

**NOTICE!**

This signal word warns against potential damages to property.



This symbol provides you with useful information about using the device.



The charger complies with protection class II.



Products marked with this symbol may only be operated indoors.



The TÜV seal confirms that the charger is safe when used properly. The “GS” symbol stands for certified safety. Products marked with this symbol meet the requirements of the German Product Safety Act (ProdSG).



Fuse (slow-blow)



Direct voltage.



Important! Read the user manual for the charger.



Declaration of Conformity (see “Declaration of Conformity” section): Products marked with this symbol meet all applicable Community regulations for the European Economic Area.



# Safety

## Proper use

The charger is designed exclusively for charging Activ Energy® batteries (see technical data).

It is intended for private use only and is not suitable for commercial purposes.

Use the charger only as described in this user manual. Any other use is considered improper and may result in damage to property.

The manufacturer or vendor accepts no liability for damage caused by improper or incorrect use.

## Safety instructions



### Risk of electric shock!

A faulty electrical installation or excessive mains voltage may result in an electric shock.

- Connect the charger only if the mains voltage of the socket corresponds to the specification on the nameplate.
- Only connect the charger to an easily accessible socket so that you can quickly disconnect the charger from the mains supply in case of a failure.

- Do not operate the charger if it is visibly damaged or if the mains cord or mains plug is defective.
- If the mains cord of the charger is damaged, to avoid risks it must be replaced by the manufacturer, its After Sales Support or a person with similar qualifications.
- Do not open the casing; always have a qualified professional to carry out any repairs. Contact a qualified workshop for this. Liability and warranty claims are waived in the event of repairs performed by the user, improper connection or incorrect operation.
- Only parts that comply with the original device data may be used for repairs. This charger contains electrical and mechanical parts that are essential for providing protection against sources of danger.
- Do not operate the charging device with an external timer or a separate remote control system.

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- Do not immerse the charger, the mains cord or mains plug in water or other liquids.
  - Never touch the mains plug with wet hands.
  - Never pull the mains plug out of the socket by the mains cord; instead, always do so by taking hold of the mains plug.
  - Never use the mains cord as a carrying handle.
  - Keep the charger, mains plug and mains cord away from open flames and hot surfaces.
  - Lay the mains cord in such a way that it does not pose a tripping hazard.
  - Do not kink the mains cord and do not lay it over sharp edges.
  - Only use the charger in indoor areas. Never operate the charger in wet rooms or in the rain.
  - Never store the charger such that it is at risk of falling into a bath tub or washbasin.

- Never reach to retrieve an electrical device that has fallen into water. In such a case, immediately disconnect the mains plug from the socket.
- Make sure that children do not insert any objects into the charger.
- Always switch the charger off and pull the mains plug out of the socket when you are not using the charger, cleaning it or in the event of a fault.
- Never charge non-rechargeable batteries. Failure to heed this notice will result in risks.



**Danger for children and persons with impaired physical, sensory or mental capacities (e.g. partially disabled persons, older persons with reduced physical and mental capacities) or lack of experience and knowledge (e.g. older children).**

- This charger may be used by children aged eight and over, by persons with

impaired physical, sensory or mental capacities or those lacking experience and knowledge only if they are supervised or have been instructed in how to use the charger safely and have understood the risks associated with operating it. Children must not play with the charger. Cleaning and user maintenance must not be performed by unsupervised children.

- Keep children under eight years of age away from the charger and connector cable.
- Do not leave the charger unattended while in operation.
- Do not let children play with the packaging. Children may get caught in it when playing and suffocate.

## **NOTICE!**

### **Risk of damage!**

Improper handling of the charger may result in damage to the charger.

- Place the charger on an easily accessible, level, dry, heat-resistant and sufficiently stable surface. Do not place the charger on the edge of the surface.
- Avoid letting heat build up by not placing the charger right next to a wall or under a wall cupboard or similar. Vapour emitted from the device may damage furniture.
- Never place the charger on or near hot surfaces (e.g. stovetops).
- Ensure that the mains cord does not come into contact with hot parts.
- Never expose the charger to high temperatures (heaters, etc.) or to the influence of weather (rain, etc.).
- Never fill the charger with liquids.
- Never immerse the charger in water or use a steam cleaner to clean the device. Otherwise, the charger may become damaged.
- Never place the charger in a dishwasher. Doing so would destroy the device.

- Stop using the charger if any plastic parts on it exhibit cracks or deformation. Replace damaged parts only with compatible original spare parts.

## First use

### Checking the charger and package contents

#### **NOTICE!**

#### **Risk of damage!**

If you are not cautious when opening the packaging with a sharp knife or other pointed object, you may quickly damage the charger.

- Be very careful when opening the packaging.
  1. Take the charger out of the packaging.
  2. Check to make sure that the delivery is complete (see **Fig. A**).
  3. Check whether the charger or the individual parts are damaged. If this is the case, do not use the charger. Contact the manufacturer at the service address specified on the warranty card.

## Charging the rechargeable battery

### NOTICE!

### Risk of damage!

Charging the battery improperly may cause damage to both the battery and the charger.

- Charge the battery at an ambient temperature between 4°C and 40°C. The ideal temperature for charging the battery is approx. 23°C.
- Charge the rechargeable battery when the level indicator shows the battery level is low.



- The charger automatically recognises the connected battery type (20 V or 20 V (×2) battery).
- Observe the charging temperature (see chapter “Technical data”).

1. Insert the battery (not included in the packaging) into the battery slot **1** on the charger **3** until it reaches the lock **5** (see **Fig. C** and **D**).

When inserting the battery, ensure that the contacts **6** on the charger slide into the designated contact grooves on the battery and that the guiderails on the battery's sides slide into the grooves on the charger (see **Fig. B**).



2. Connect the charger to a properly installed socket only.

The status indicator **4** on the charger shows the current status of the battery and charger (see chapter “Status indicators on the charger”).

3. Unplug the charger from the mains socket once the battery has been fully charged.
4. Slide the battery towards the mains cord **2** to remove it from the charger.

If a problem occurs during the charging process, disconnect the charger from the mains supply.

### Status indicators on the charger

- LED lights up green: Operating voltage reached/  
charging process completed
- LED flashes green: Battery is charging
- LED flashes red: Error while charging
- LED lights up red: Temperature warning

## Cleaning and care



### Risk of burns!

The charger will heat up during use.

- Always let the charger cool off completely before you clean it.

## **NOTICE!**

### **Risk of short circuit!**

Water or other liquids that have penetrated the housing may cause a short circuit.

- Never submerge the charger in water or other liquids.
- Make sure that no water or any other liquids get into the casing.

## **NOTICE!**

### **Risk of damage!**

Improper handling of the charger may result in damage.

- Do not use any aggressive cleaners, brushes with metal or nylon bristles, or sharp or metallic cleaning utensils such as knives, hard scrapers and the like. They could damage the surfaces.
- Never place the charger in a dishwasher. Doing so would destroy the device.

1. Before cleaning, pull the mains plug out of the socket.
2. Allow the charger **3** to cool off completely.
3. Wipe the charger with a damp cloth. Then let all parts dry completely.

## Storage

All parts must be completely dry before being stored.

- Always store the charger **3** in a dry place.
- Protect the charger from direct sunlight.
- Store the charger out of reach of children, securely locked away and at a temperature of between 5°C and 20°C (room temperature).

## Troubleshooting

Error indication	Possible causes	Solutions
LED flashes red	The charger is defective.	Contact a qualified workshop for repair.
	The battery is defective.	Stop using the battery and replace it.
LED lights up red	You are attempting to charge the battery outside the permitted temperature range.	Adhere to the temperature limits when charging the battery.

## Technical data

Article number:	97880
Model:	AEC 20 - 4.0lb
Model number:	5900943/5900944
Rated input power:	220 - 240 V~/ 50 Hz/ 96 W
Rated output power:	21 V === / 4.0 A
Compatible with the following Activ Energy® batteries:	20 V ===/ 36 Wh/ li-ion rechargeable battery 20 V === (×2)/ 90 Wh/ li-ion rechargeable battery
Charging time:	20 V ===/ 36 Wh = approx. 45 min. 20 V === (×2)/ 90 Wh = approx. 95 min.
Charging temperature:	4 to 40°C
Weight:	500 g
Dimensions (W × D × H):	17.2 × 11.4 × 7.6 cm

# Disposal

## Disposing of the packaging



Dispose of the packaging separated into single type materials. Dispose of paperboard and cardboard with waste paper and plastics with recyclable waste.

## Disposing of the charger

(Applicable in the European Union and other European states with systems for the separate collection of reusable waste materials)

**Old devices must not be disposed of with household waste!**



If the charger can no longer be used, every user is **required by law to dispose of the device separately from household waste**, e.g. at a collection point in their community/borough. This ensures that old appliances are recycled properly and helps prevent any negative impacts on the environment. For this reason, electrical equipment is marked with the symbol shown here.

# Declaration of Conformity



Conmetall Meister GmbH  
Oberkamper Straße 37 - 39  
42349 Wuppertal  
Germany



## EC Declaration of Conformity

We declare with sole responsibility,  
that the product listed below ...

CHARGER AEC 20 - 4.0lb

### ACTIV ENERGY®

5900943/5900944 • 97880 • 05/2019

... meets all of the requirements  
of the listed directives.

2011/65/EU (RoHS)  
2014/35/EU (LVD)  
2014/30/EU (EMC)

Applied, harmonized standards:

EN 60335-1:2012+A11+A13  
EN 60335-2-29:2004+A2  
EN 62233:2008  
EN 55014-1:2006+A1+A2  
EN 55014-2:2015  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
EN 50581:2012

Wuppertal, .....01.10.2018

Ingo Heimann (M.Sc.)  
Technical direction/Product development  
Conmetall Meister GmbH · Oberkamper Straße 37 - 39 · 42349 Wuppertal · Germany  
Authorized person for storing the technical documentation.



Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.



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05/2019

# 3

**YEAR  
WARRANTY**