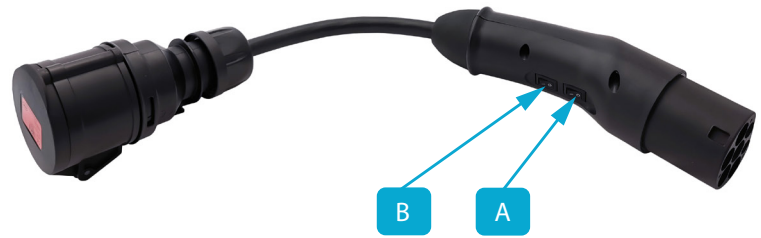


## CHARGING CONNECTORS AC02 & AC03

### USER MANUAL



### INTRODUCTION

Charging connectors AC02 and AC03 are designed to enable charging electric vehicles (electric bicycles, scooters, etc) or powering any other loads (fire pumps, compressors, ovens, etc) with normal Schuko [Type F] 16 A or 16A CEE plugs from EV charging stations with Type 2 [IEC 62196] sockets. They send signals “vehicle connected” and “vehicle ready to charge” to the charging station thus enabling charging a vehicle or powering other loads from connector outlet.

Any other use is not allowed and is regarded as improper use.

Before using the charging connector, please thoroughly read this manual and follow the instructions provided therein. Please keep the manual for future use. If you are unsure about the proper usage, please contact the manufacturer or your dealer before usage.

### IMPROPER USE

Improper use can lead to property damage or personal injury. In such cases, the manufacturer and retailer accept no liability. Warranty will be voided in case of improper use. You must not:

- modify/manipulate the charging connector!
- drive over the charging connector!
- draw more than specified current/power!
- connect unsuitable plugs and cables!
- use the charging connector if damaged!

### GENERAL SAFETY INSTRUCTIONS



- Carefully read this security instructions before using the product!
- Never draw more than specified current/power from the charging connector!
- Children are not allowed to use the charging connector.
- Keep animals away while using the charging connector.
- Avoid liquids entering the charging connector. Never use the charging connector if the socket or plug is wet.
- Only connect undamaged, designated and labelled plugs & cables to the charging connector.

### SYMBOLS USED

The following symbols are used in this manual and on the product:

	This symbol indicates a danger with a risk of causing serious injury or death or damage if not avoided.
	CE symbol is a mark of conformity indicating that a product complies with European Union directives and regulations.
	This symbol signifies the requirement for separate disposal of electrical and electronic waste. See chapter disposal.
	Please read the manual before using the charging connector.
	Risk of electric shock due to dangerous voltage when used incorrectly.
Tamb	Do not use and store the charging connector below or above the specified temperature.

## GET STARTED



- Check charging connector before use. Do not use the charging connector if damaged!
- Socket will provide a high voltage (230 or 400 V)!
- Never draw more than specified current/power from the charging connector!
- Do not use the charging connector if the socket or/and plug is wet.
- Only connect undamaged, designated and labelled plugs & cables to the charging connector.
- Avoid using multiple connector/power strips as they can lead to overload.
- Don't unplug before turning off.
- Always operate in the specified order of steps.

1. Plug charging connector to charging station Type 2 socket.
2. Turn-on Switch [A] (see picture) => charging station gets the message "vehicle connected" and locks the connector (if it features plug lock function).
3. Turn-on Switch [B] (see picture) => immediately after switching on switch [B], charging station gets the message "vehicle ready to charge".
4. Then charging station energizes its relays/contactors and you have voltage/power on connector outlet.

When you want to stop charging, use the opposite procedure; first turn-off second switch [B] and then first one [A]. This will de-energize the relays/connectors, unlock the connector at the charging station socket and let you pull out the connector.

**Some stations do not require this procedure to be followed, they start charging when you plug in the connector with both switches at "ON" position.**

## TECHNICAL SPECIFICATIONS

	AC02	AC03
Charging station side plug type	Type 2 [IEC 62196] male plug	Type 2 [IEC 62196] male plug
Outlet socket type	3 x Type F [Schuko] [3 x 1-phase/IP+N+E], other 1-phase outlets on request	CEE 32 A [3-phase/3P+N+E], others 3-phase outlets on request
Maximum continuous current	3 x 16 A	3 x 16 A
Rated Voltage	230 Vac [3 x 1-phase]	400 Vac [3-phase]
Operating Ambient Air Temperature Range	from -40°C to +50°C	from -40°C to +50°C
UV resistance	YES	YES
Ingress protection rating	IP44 [rain water resistant]	IP54 [rain water resistant]
Dimensions [Ømax / Length]	145 mm / 480 mm	90 mm / 450 mm
Weight	720 g	500 g

The charging connectors are IP rated 44, what means that the charging connector is waterproof during usage. Nevertheless, please avoid the plugs to get wet and do not use the charging connectors if the plugs are wet.



- Never draw more than specified current/power from the charging connector!
- Do not use if plugs/sockets are wet!

## CLEANING & STORAGE

Use only a dry or damp cloth for cleaning the unplugged charging connector. Do not use cleaning detergents. Please secure the charging connector while transporting it in your vehicle to avoid damage. Store at a dry place.



- The charging connector must be completely unplugged before cleaning!
- Avoid water getting to contact parts!
- Secure charging connector while transporting!

## DISPOSAL



The symbol "crossed-out trash can" signifies the requirement for separate disposal of electrical and electronic waste. These devices may contain hazardous and environmentally harmful substances. Please take such devices to a designated collection point for the recycling of electrical and electronic equipment and do not dispose of them in regular household waste. You can obtain further information from local waste disposal services or the company from which you purchased the product.

## GREEN PRODUCTION

All our products are produced in a carbon neutral way by using "Sustainable energy cycle" method. The production plant where we make charging cables, charging connectors and portable charging stations is the first fully sustainable production facility for EV charging products. All energy needed for the heating / cooling of the building, production process, as well as for transportation of goods and employees (except deliveries of heavy materials by trucks) is produced by 2 photovoltaic power plants and stored in 4 storage batteries. Almost all of the raw materials we use (cables, plugs) are produced in EU to shorten supply routes and support local economy. [Buying our products helps developing sustainable economy.](#)

## LIMITED WARRANTY

METRON warrants its product to the original consumer purchaser that it will repair, or replace, any product that is determined to be defective for the following terms: **Two (2) years** from date of purchase on all components. The product is **MOISTURE PROOF**, but **NOT WATERPROOF**, so warranty is void in case of water penetration! To be eligible for repair or replacement under this warranty, the product in question must be sent back to METRON within the warranty period and the original consumer purchaser must comply with the following conditions: The product thereof must not have been modified or altered in any way by an unauthorized source; The product thereof must have been used in accordance with the user manual.

This limited warranty does not cover: Damage due to improper use; Accidental or intentional damage; Misuse, abuse, corrosion, or neglect; Product impaired by severe natural conditions, such as excessive hail storms, lightning strikes, tornados, flooding, ice or other natural occurrences; Damage due to improper packaging on return shipment. Any and all labor charges for troubleshooting, removal or replacement of the product are not covered by this warranty and will not be honored by METRON. All shipping costs regarding repair or replacement of the product is to be pre-paid by the original consumer purchaser.