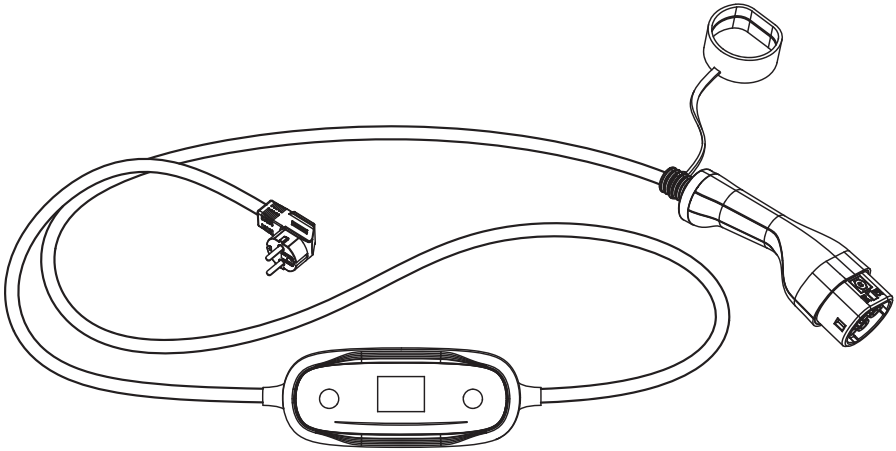
Auto-Connect

USER MANUAL



EVC16A

Portable electric vehicle charger
Single phase 16A (230V MAX)

DISCLAIMER

The Auto-Connect EVC16A electric vehicle charger carry a full warranty depending on the conditions in the country where it is sold. The warranty is valid from the date of the original receipt as proof of purchase (warranty period differs depending on local warranty laws and policies).

The warranty does not cover any damage caused by the following:

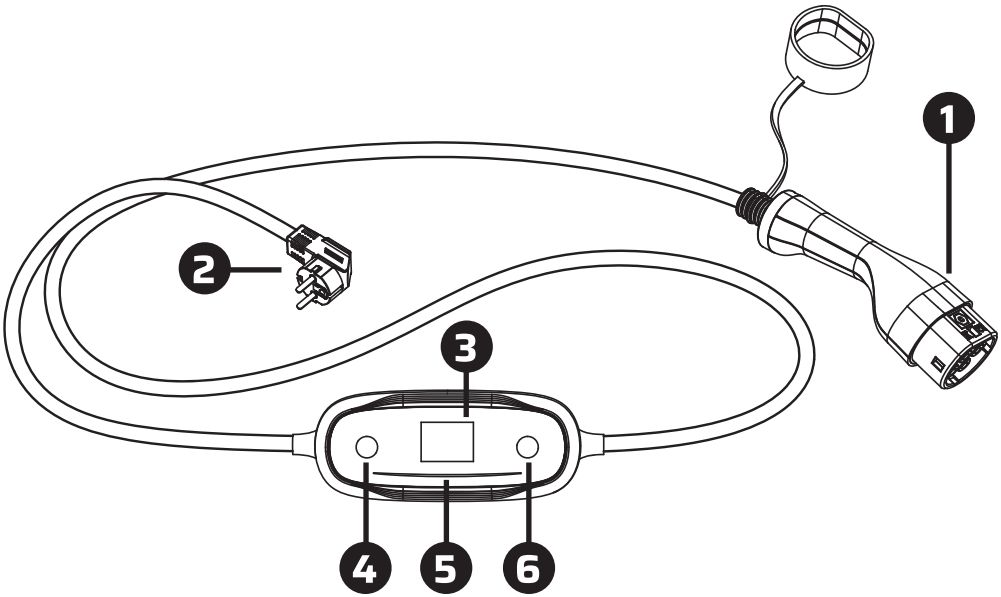
- Failure to comply with the instructions in this manual in general and with the operating conditions specifically.
- Improper use of the product and/or any external damage.
- Modification of the product or accessories by unauthorized personnel.

SAFETY INSTRUCTIONS

The EVC16A charger is exclusively designed for charging electric vehicles, both fully electric vehicles and hybrid vehicles. Use only as intended. Any other use or modifications to the device are considered improper use and therefore not allowed, operators or owners are responsible for any personal injury or material damage caused by improper use.

- Always comply with relevant standards and (local) regulations when using the portable electric vehicle charger.
- Risk of injury and electrocution. Never open any part of the portable charger.
- Risk of injury and electrocution. Do not use the EVC16A charger if it is damaged or plugs and cables are defective, regularly inspect the device for visible damage.
- Risk of injury and electrocution. Do not disconnect the charger while it is charging.
- Do not use the portable electric vehicle charger if it fails to operate correctly according to the instructions, consult a qualified electrician.
- To ensure stable operation and a long service life of the portable charger, keep the operating environment clean, with a constant temperature and humidity. Do not use the device in the presence of volatile gases or flammable atmospheres, and avoid misuse, such as dropping or immersing it.
- Ensure that the power plug of the charger is plugged directly into a socket-outlet without an adapter unless the adapter is part of the product and meets the requirements for a portable electric vehicle charger.
- Ensure that the vehicle connector of the EVC16A charger is plugged directly into a vehicle inlet without an adapter.
- Use a fixed socket-outlet protected by an upstream circuit breaker (or fuse).
- Ensure that the power supply and environmental conditions meet the device specifications before powering it on.
- Ensure that the EVC16A charger remains off the ground during normal use.

PRODUCT DIAGRAM



1) Electric vehicle connector (Type 2)

2) Power connector (Type F)

3) LCD display

4) Time button (Delay timer settings)

5) LED indicators

6) Amp button (Current selection)

FEATURES

Protection system

The EVC16A charger has several protective features to ensure the safety of both the user and the device. These include over-current protection, over-voltage protection, under-voltage protection, surge protection, grounding protection, leakage current protection, relay adhesion protection, over-temperature protection, and CP diode short-circuit protection.

Quick & Easy operation

When the charger is powered on, simply plug the vehicle connector into the electric vehicle's inlet. The device will automatically detect the connection status and initiate the charging process without any complicated setup steps.

Self-test function

When the charger is powered on and connected to the electric vehicle, the charger will perform a self-test before initiating the charging session to ensure proper functioning.

Intelligent chip

The charger is equipped with an intelligent chip that can automatically diagnose and repair minor charging issues during the charging process.

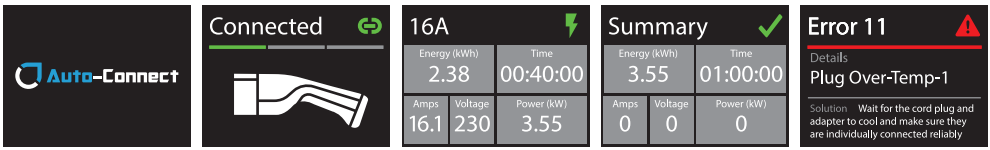
Sturdy enclosure with IP65 rating

The charger features a unique waterproof design for the control box that meets the IP65 standard, providing reliable protection against dust and water ingress. The charger enclosure is crafted from high-strength PC plastic for great durability and quality. It has been tested to withstand the weight of a vehicle.

FEATURES

LCD display

The charger is equipped with a user-friendly LCD display that clearly shows key charging information, including charging status, charging current, and timer delay settings, allowing users to stay informed about the charging process at a glance. See examples of LCD displays shown during usage of the EVC16A charger below.



Power up | Before charging | Charging | Done charging | Error

LED indicators

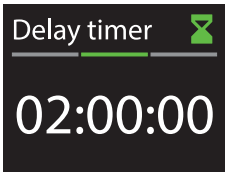
The EVC16A charger features an intuitive LED indicator system. Different blinking patterns of the LEDs provide clear and immediate feedback to users regarding the current charging status and any potential issues that may arise during the charging process. This allows for easy monitoring and troubleshooting, ensuring a seamless and reliable charging experience. See different statuses of charging below.

Power up		Half of the light is blinking in green
Before charging		Half of the light is glowing green
Charging		Whole light is "breathing" green
Done charging		Whole light is glowing green
Error		Whole light is blinking in red

FEATURES

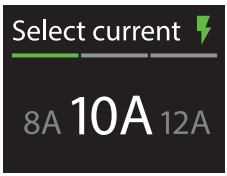
Delay timer

By pressing the Time button on the EVC16A charger, the user can set a delay timer for when the charging session should start. The time delay can be set on 2, 4, 6 or 8 hours. Press the Time button to choose between the alternatives.



Current selection

By pressing the AMP button on the EVC16A charger, the user can select between different current option. Choose between 6, 8, 10, 12 or 16 Ampere. Press the Amp button to choose between the alternatives.



OPERATION

Start charging

Step 1: Connect the power plug to the socket-outlet of the power supply.

Step 2: Press the Amp button to choose current and the Time button if you wish to delay the charging session.

Step 3: Remove the rubber cap and insert the Type 2 vehicle connector into the charging inlet of the electric vehicle, ensuring a secure and proper connection.

Stop charging

Step 1: Unlock the car when the charging session has been finished.

Step 2: Remove the Type 2 vehicle connector from the electric vehicle.

Step 3: Remove the power plug from the socket-outlet of the power supply.



Warning!
The vehicle connector should NOT be removed during an active charging session.



Note! Make sure to firstly disconnect the charger from the vehicle before disconnecting it from the power supply. This sequence ensures safety and prevents potential electrical arcs or damage to the device.



Warning! Do NOT operate the charger on IT or any other type of unearthed systems (such as isolated winding generators).



Note! The charger is equipped with a Non-switched protective conductor to secure correct and safe charging.



Note! The charger should not be operated in an environment with a temperature lower than -25°C or higher than +45°C.

TECHNICAL SPECIFICATIONS

Rated Voltage	230V AC (Single Phase)
Nominal Frequency	50Hz
Selectable Current	6 / 8 / 10 / 12 / 16A
Rated Power up to	3680W
Input Cable	3x2.5mm² + 2x0.5mm²
Output Cable	3x2.5mm² + 1x0.5mm²
Input Socket	Residential socket (minimum 16A) 16A
Electrical Safety Class	Class I
Earthing System	TN-C, TN-S
RCD	Type A (30mA AC) + 6mA DC
Charging Mode	Mode 2
Power Plug	Single Phase 16A, Type F plug
Vehicle Connector	Type 2
Total Product Length	6m
Selectable Time Delay	2 / 4 / 6 / 8 hours
Ingress Protection	IP65 (control box)
Impact Protection	IK08
Control Box Material	High durable PC plastic
Operating Altitude	≤2000m
Operating Temperature	-25 °C to 45 °C
Atmospheric Humidity	5% to 95% (no condensation)

ERROR CODES & TROUBLESHOOTING

Error Code	Error Type	Solution
E01/E02	Over Temperature Fault	Wait for the CHARGER to cool and ensure the operating temperature is normal
E03/E04	Over Current Fault	Stop charging and wait for 30 seconds, or unplug the CHARGER connector
E05	Earth Leakage Fault	Make sure there is no earth leakage of the CHARGER output cord
E06	RCD Self-Checking Fault	Make sure there is no earth leakage of the CHARGER output cord
E07	Under Voltage Fault	Make sure the CHARGER input voltage is above 180V
E08	Over Voltage Fault	Make sure the CHARGER input voltage is below 265V
E09	Relay Not Disconnect	Maintenance required from official distributor
E10	Relay Not Closing	Maintenance required from official distributor
E11/E12	Plug Over-Temperature Fault	Wait for the cord plug and adapter to cool and make sure they are individually connected
E13	Ground Fault	Make sure the CHARGER ground conductor is earthed firmly
E14	CP Voltage Fault	Make sure the CP cable is neither broken nor short to the ground.
E15	CP Diode Fault	Make sure the CP cable is normal, or check the car side
E16	Voltage Connection Fault	Make sure the CHARGER input cord is connected correctly
E17	Voltage Phase Fault	Make sure the CHARGER input cord is connected correctly
E22	AC Sample Fault	Check the CHARGER CT clamp cable
E23	Communication Fault	Check the CHARGER communication cable
E24	Charger NTC Fault	Maintenance required from official distributor
E25	Plug NTC Fault	Maintenance required from official distributor
E26	ADC Circuit Fault	Maintenance required from official distributor
E28	CHARGER CC Fault	Make sure the connector is firmly plugged into the CHARGER
E29	CHARGER CC Fault	Maintenance required from official distributor







The crossed-out wheelie bin symbol means that the product, literature and packaging included must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste: dispose of them at a recycling point. For info on your nearest recycling point, check with your local waste authority.

Products marked with the RoHS symbol complies with the relevant provisions of the RoHS Directive for the European Union. In common with all Electrical and Electronic Equipment (EEE) the product should not be disposed of as household waste. Alsternative arrangements may apply in other jurisdictions.

The product with the CE mark indicates that it has passed the correspondning conformity assessment procedure and the manufacturer's declaration of conformity, and it complies with the relevant EU directives, and is used as a pass for the product to be allowed to enter the European Community market. Relevant directives require industrial products to be affixed with the CE mark. Those that do not have the CE mark shall not be marketed.

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