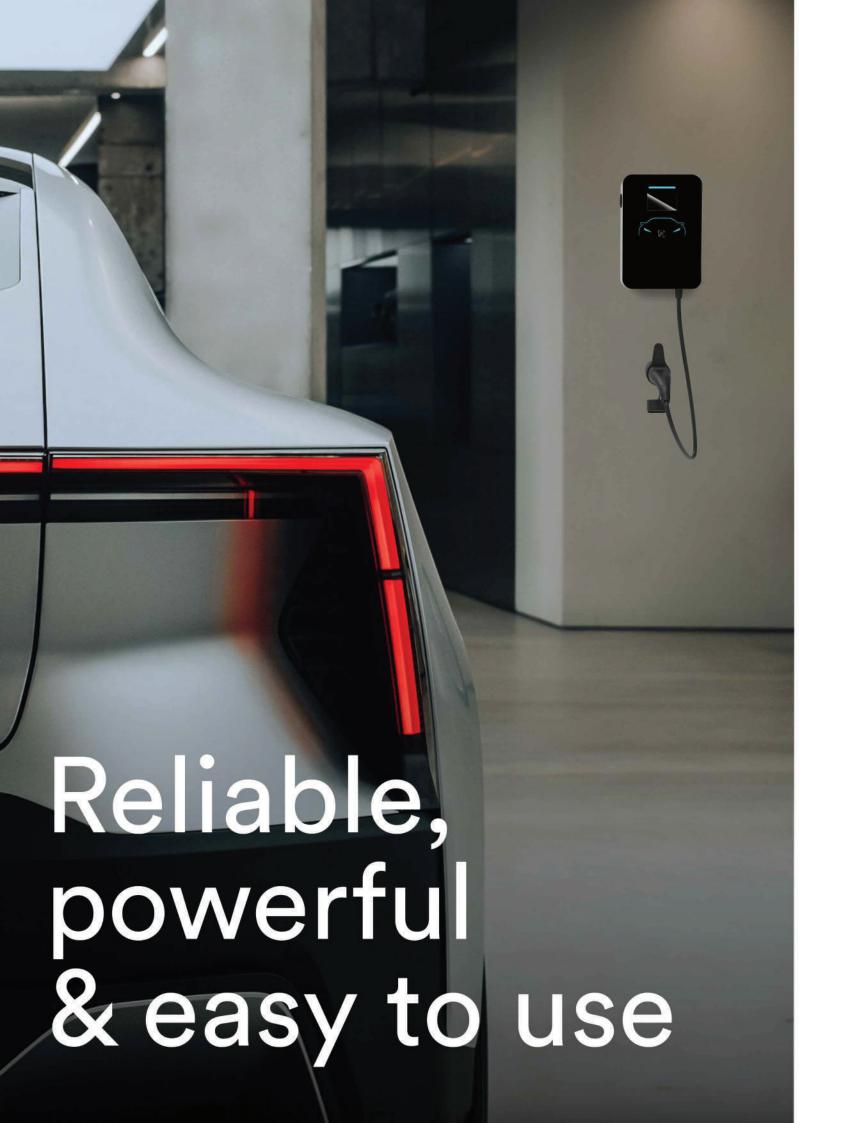


PRODUCTS MANUAL

Xiamen Alcawa Tech Co., Ltd Embrace Greenenergy | Empower Future







Smart Solutionsfor A Greener Future

The world's energy production and consumption is undeniably changing. The electrification of the mobility industry is contributing to this great change through the development and research of electric vehicles and related products at a global scale.

At ALCAWA we know that every small conscious decision builds up to an environmentally sustainable future, that's why we are proud to present our new electric vehicle charger series, carefully designed applying over 15 years of our experience in the PV industry.

Every detail of our EV Chargers aims to bring the best possible experience for customers. Our intelligent monitoring system and user-friendly app allows you to control the whole charging process on your mobile device. Our AC EV Charger is fully compatible with your photovoltaic installation, allowing you to charge your vehicle directly using the power of the sun.

You can depend on ALCAWA

ALCAWA has successfully been manufacturing high-quality and reliable products for renowned brands since 2020. Today, ALCAWA is an independent research, development and manufacturing company. A recent equity restructuring puts us on particularly strong financial footing within the industry.

By launching our versatile and reliable Alcawa EV chargers, we are taking a new step into becoming a key contributor to the global e-mobility revolution.





Alcawa's new generation of AC EV chargers bring the latest technologies to your home for a safe and smart charging experience, with an elegant and easy-to-use design and adaptable functions that meet the needs of a wide range of user scenarios.

This new generation of AC EV Chargers come as a result of dedicated research, design and development based on our deep knowledge in the field of photovoltaic technology for over 15 years. The possibility of using solar energy in the charging process of your electric vehicle, comes not only with great economic benefits, but as a smart and environmentally conscious choice to living a greener life.

Our AC EV Charger Series provide several options for you to discover the best charging experience possible. Get ready, the green future is here!

Everything you expect and more!





Innovative design

- · Elegant design with a dynamic and robust streamlined body
- By leveraging high tech paint technology, the sleek and aesthetically pleasing EV charger blends perfectly with both your EV and home
- Replaceable front cover for convenient substitution and additional color options





Easy-to-install

- Compact, lightweight and wall mountable
- Easy-to-install with standard tools
- Toolless plug in terminal blocks
- Quick set-up via APP
- Cable entry on the front or rear of the housing







- TÜV IEC 61851-1 & CE compliant
- Integrated Type A RCD, 30mA AC and 6mA DC leakage protection
- Built-in PEN fault detection without extra earth rods
- Type 2 socket with shutter (opt.)
- Dynamic load balancing (opt)







Reliable

- IP65 enclosure suitable for outdoor use
- IK10 protection rating
- Exterior & interior covers for multiple protection
- 3 years standard warranty









- Intelligent Ai-charging App for remote control and monitoring
- Scheduled charging and off-peak charging modes
- Adjustable charging power (6A to 32A)
- Lock / unlock the charger via APP
- Solar charging under Solar PV & Eco Mode (opt.)
- Recyclable packaging







- APP & RFID & NFC for user authentication or easy set up to Plug & Play mode
- Integrated NFC technology, unique authentication via smartphone
- Cable Holster housing design
- Ergonomic plug handles
- LED status indicators
- Wireless firmware updates
- Automatic phase detection and balancing (3 phase series)







Temperature Protection



Auto



Efficient Charging



1 Protection Level IP65



Type B

⊌ APP

1 Years Warranty

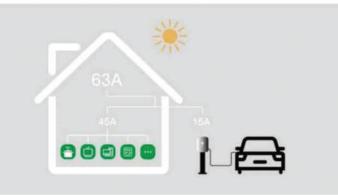
Control

154mm











CHARGING BOX

LCD screen Easy installation High compatibility Waterproof grade:IP54 Small size, Easy to transport Multiple security protection Certified by authorities Real-time monitor on temperature

EV CONNECTOR

Built in temperature monitoring Good conductivity **Durable and anticorrosion** Easy to bend, Long service life High resistance to cold/high temperature

CORE ADVANTAGE

RCD:Type B Directional current regulation Repair the disorder of capacitor units Full-link temperature monitoring system Strong Expansibility(Bluetooth, WiFi, 4G, Ethernet)

ABOUT CUSTOMIZATION



LOGO in the

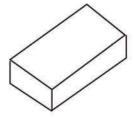
Display



Product Nameplate LOGO



Front Panel Customization



Packing Box Sticker Customization



Manual Customization

NOTE: The above customization has quantity requirements, please confirm with sales staff for details.

Technical Datasheet





Transport Package

Dimension (W/H/D) 350/300/173mm

3.3/4KG G.W./N.W. **Packing Quantity** 1in 1 carton



Gift Package

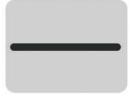
Dimension (W/H/D) 380/360/173mm 3.3/4KG G.W./N.W. **Packing Quantity** 1in 1 carton

ELECTRICAL SPECIFICATION			
Rated voltage input/output	230V~ (single phase)		
Input Voltage/Output voltage	AC175V-265V~ (single phase)		
Input frequency	50Hz		
Max. output power	7kW (single phase)		
Max. output current	32A		
WORKING ENVIRONMENT			
Protection degree	IP65		
Environment temperature	-25℃~+50℃		
Relative humidity	0-95%non-condensing		
Maximum altitude	< 2000m		
Cooling	Natural air cooling		
MOUNTING ACCESSORIES			
Wall-mounting bracket/Ground-mounting pole	Yes/Opt		
PRODUCT MODEL	ALW-EVC001		
FUNCTION AND ACCESSORY			
Bluetooth	Yes		
Ethernet	Optional Customized		
4G	Optional Customized		
4.3-inch color display(3.0-inch display area)	Optional Customized		
Swipe Card Reader	Yes		
RCD	Туре В		
LED Indicator light	Yes		
	Yes		
Intelligent power adjustment	162		













LOGO Color Cable Package Power Plug Customization Customization Customization Customization



11KW

A8 | 4.3-inch LCD | EV charger | Type2

Features

Intelligent control: Swipe start. App control.

Charge by remote appointment Ingress Protection: IP66 RCD: A+DC6mA

Optional: 4G、Wifi/Bluetooth、RJ45

Parameter

► Input Voltage

Single-phase AC230 50/60Hz (L+N+PE)
Three-phase AC400 50/60Hz (L1+L2+L3+N+PE)

► Input Current AC16A / AC32A

▶ The Output Voltage

Single-phase AC230 50/60Hz (L+N+PE) Three-phase AC400 50/60Hz (L1+L2+L3+N+PE)

Output Current AC16A / AC32A

► Start-up mode
Plug-and-Play、RFID Reader

► Network
Optional 4G、Wifi+Bluetooth、RJ45

► LCD LED
Optional LED、4.3-inch screen

RCD

► A+DC6mA

► Multi-protection

Overvoltage protection, undervoltage protection, grounding protection, lightning protection, leakage protection, flame retardant protection, overcurrent protection, intelligent temperature control protection, relay adhesion protection, input shutdown protection

Scenes	Height (m)	Operating Temperature	LED Screen	Wide Voltage Range
Indoor/outdoor	<2000	-30~ 50C	Power, charging, fault,three-color LED indicator	100V~275V







AC EV Charger



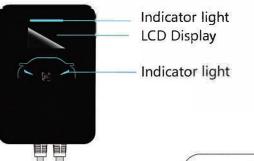
Product characteristics

- 1) Size: 355mm * 250mm * 93mm
- 2 Maximum output current: 50A
- 3 The module has built-in high-performance MCU and stable product performance. Multiple protection: high temperature, overvoltage, undervoltage, grounding, overcurrent, leakage current and other protection functions
- 4 The three-color Led light indicates the working status, and the display screen displays the working status information in real time.
- 3 Support swipe card start, scan code start, Bluetooth start multiple start methods
- 6 Supports multiple communication methods: Bluetooth, Ethernet, 4G
- ② Support communication with remote management platform to realize remote monitoring

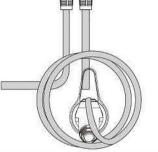
Application field

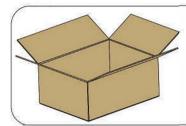
- 1 Suitable for large, medium and small electric vehicle charging stations
- ② Urban residential areas, shopping squares
- 3 Various public places with electric vehicle parking spaces, such as electric power business places
- 4 High-speed service areas, station terminals and other transportation hub areas
- **5** Application of Private Charging Pile

PRODUCT PARAMETERS AND INSTALLATION STEPS









Transport Package

Dimension (W/H/D) 535/310/190mm

G.W./N.W.

10/12KG

Packing Quantity

1in 1 carton

Rated voltage input/output	400V (three-phase)	
Input Voltage/Output voltage	AC400V (L1+L2+L3+N+PE)	
Input frequency	50Hz	
Max. output power	22kW (three-phase)	
Max. output current	32A	
WORKING ENVIRONMENT		
Protection degree	IP65	
Environment temperature	-25℃~+45℃	
Relative humidity	0-95%non-condensing	
Maximum altitude	< 2000m	
Cooling	Natural air cooling	
Wall-mounting bracket/Ground-mounting pole	Yes/Opt	
FUNCTION AND ACCESSORY	GD4502-053	
FUNCTION AND ACCESSORY FUNCTION AND ACCESSORY	GD4502-053	
	GD4502-053 Yes	
FUNCTION AND ACCESSORY		
FUNCTION AND ACCESSORY Bluetooth	Yes	
FUNCTION AND ACCESSORY Bluetooth Ethernet	Yes Yes	
FUNCTION AND ACCESSORY Bluetooth Ethernet 4G	Yes Yes Yes	
FUNCTION AND ACCESSORY Bluetooth Ethernet 4G 4.3-inch color display	Yes Yes Yes Yes	
FUNCTION AND ACCESSORY Bluetooth Ethernet 4G 4.3-inch color display Swipe Card Reader	Yes Yes Yes Yes Yes	
FUNCTION AND ACCESSORY Bluetooth Ethernet 4G 4.3-inch color display Swipe Card Reader RCD	Yes Yes Yes Yes Yes Yes Yes Type B	

Charging App

Our state-of-the-art charging App allows you to manage, configure and control your charger remotely from your mobile device. Full controlin the palm of your hand!

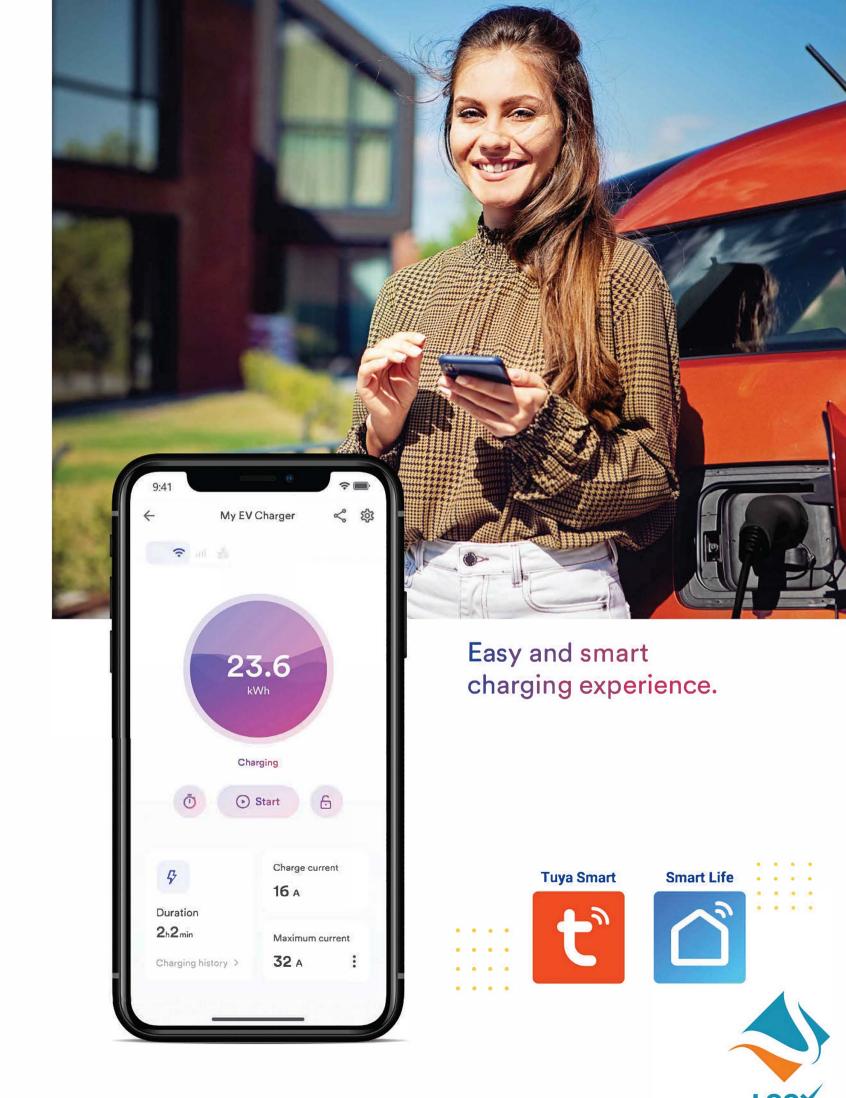
With an elegant and user-friendly interface. We, at Alcawa are driven by the idea of making things easy for installers and end-users alike, we'vedeveloped this App after thoroughly researching the habits and needs of ourusers.

Join us for a fully charged drive towards a green future!

Features

- Multiple wireless control solutions: Standard wireless communication via WIFI / BLE / 4G (opt.)
- Charging history:
 Understand your personal charging habits through a graphical interface, to optimize your experience
- Scheduled charging sessions:
 Manage your charging times and save costs by using off-peak electricity rates or your own solar energy production.

- Security:
 Instantly lock and unlock your charger through your mobile device
- Shared management:
 Easy-to-use configuration to grant shared management access to your family or community
- Upgrade service:
 Compatible with an energy meter, allowing you to take advantage of solar charging and dynamic load balancing feature



Harness the power of the sun

At Alcawa we strive to create the best possible experience for distributors, installers and end users. That's why our products are easy-to-install, reliable and user-friendly.



Easy-to-install

- Quick & easy-to-install with standard tools
- Quick setup and commissioning with Solplanet apps
- · Compact wall mount design



Reliable

- International quality standards
- Integrated DC switch
- IP65 rated design for outdoor use



User-friendly

- User-friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Award winning inverter design



Explore our product catalogue

We offer a variety of high-quality products designed to cover your needs, no matter the size of your installation. Our deep experience in the PV industry and the manufacturing of solar inverters allows us to provide highly reliable interconnectable equipment. With this new EV Charger series, we give a new step to a greener future.



Single phase string inverters



AC EV Chargers



Three phase string inverters



Connect & monitor Systems



Hybrid inverters

Visit our website and discover the Solplanet product family.



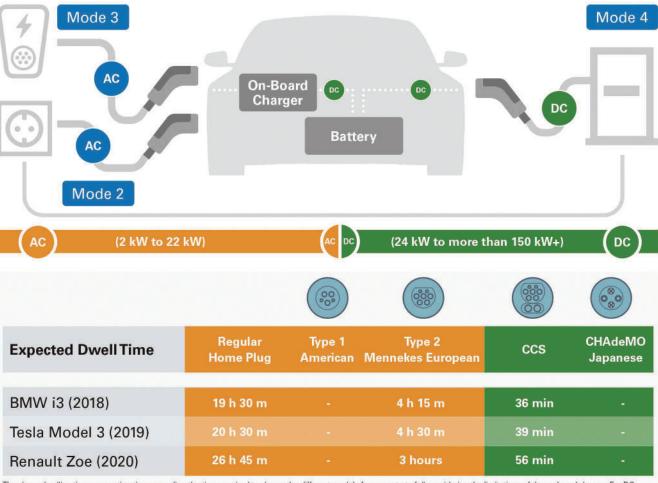
EV charging infrastructure (EVCI)

Supply type	AC/DC	Rated power*	Time to charge 10 kWh	Time to charge 30 kWh
Single phase 16 A	AC	3.7 kW	2 h 40 min	8 hours
Single phase 32 A or 3 phase, 16 per phase**	AC	7.4 kW	1 h 20 min	4 hours
3 phase, 16 A per phase**	AC	11 kW	55 min	2 hours 45 min
3 phase, 32 A per phase	AC	22 kW	27 min	1 hour 22 min
3 phase, DC	DC	50 kW	12 min	36 min
3 phase, DC	DC	120 kW	5 min	15 min

^{*}Simplistically (ignoring Power Factor correction):

- For single phase 230 V connections, Power (kW) = Amps (A) x 230 V*0.001
- For 3 phase 400 V connections, Power (kW) = 1.732*Amps per phase (A) x 400 V*0.001

^{**}depending on countries



The above dwelling times are estimations regarding the time required to charge the different models from empty to full considering the limitations of the on-board charger. For DC charging, the time indicates to charge the battery from 10 % - 80 %, as charging tends to slow outside this range to protect the battery.

Source: https://ev-database.uk/car