PRODUCTS MANUAL

Shenzhen EN Plus Tech Co., Ltd.

Global Supplier for EV Charging Facilities
and Software Platform

Silk Series Home Wallbox

The Silk Series Home Wallbox is a stylish and user-friendly charging solution with a Type 1 connector and smart app integration for easy installation and use. UL-certified, dustproof, and waterproof, ensures the top priority of EV charging safety. In addition, Silk Series wins Red Dot Award for its distinctive design, it also offers intelligent load management and seamless PV integration for optimized energy usage.

US Standard

10kW

Pearl White Starry Black Emerald Green

12kW

Space Gray

Flexible Options

- Wall-mount/pole-mount
- Hardwired/NEMA plug
- 4 enclosure colors
- Multiple charging modes

Environmental Friendly

- Certified by Energy Star
- Eco-friendly enclosure materials

High Reliability

- Anti-welding protection
- NEMA 4 dustproof and waterproof design
- CCID 20 leakage current protection
- UL listed and CSA certified

Smart Operation

- Multi communications (Wi-Fi/Bluetooth/Ethernet)
- Dynamic load balancing
- PV compatible
- Scheduled charging

10kW Plug&Play

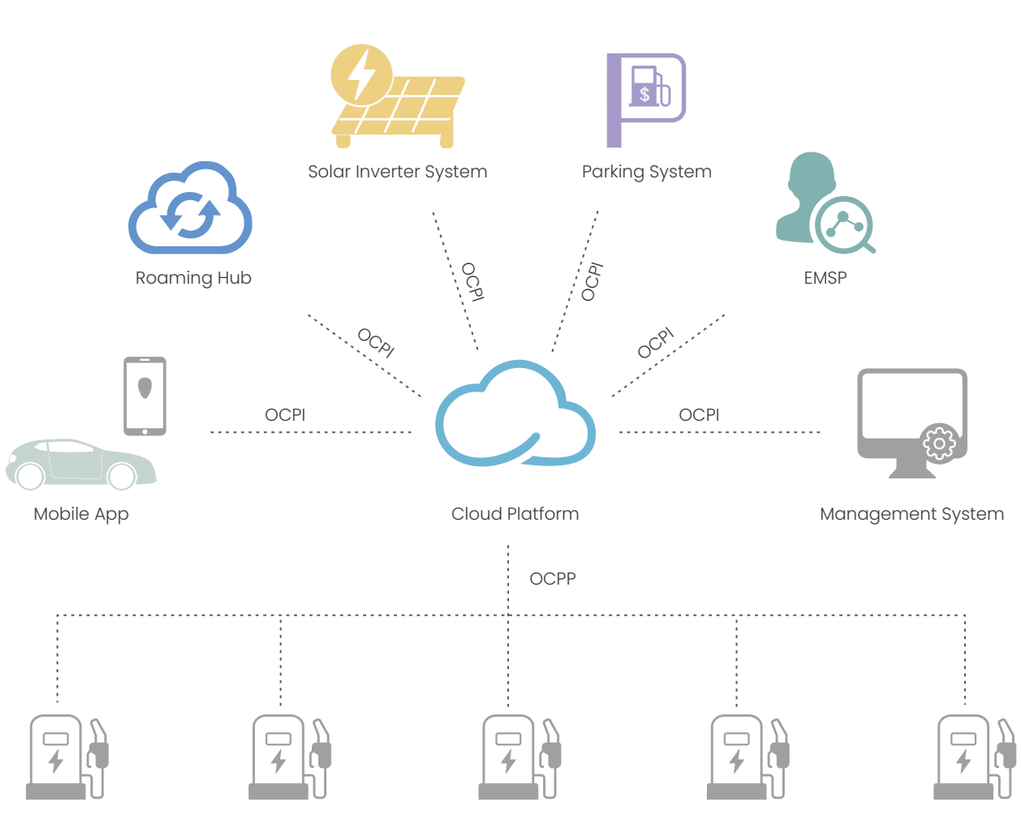
Silk Series Home Wallbox

Datasheet	Model	AC010K-AU-35	AC012K-HU-35
Electrical Specification	Power Supply	L1+L2+G	
	Rated Voltage	240VAC	
	Max Current	40A	50A
	Frequency	60Hz	
	Max Power	10kW	12kW
Basic Attributes	Wiring Type	NEMA 14-50P	Hardwired
	Cable Length	7(23 feet)/7.5m(25 feet)	
	Enclosure	PC	
	Installation	Wall-mount/Pole-mount(Optional)	
Interactive Interface	LED Indicator	Green/Yellow/Red	
	RFID Reader	Mifare ISO/IEC 14443 A	
	Start Mode	Plug to Charge/RFID Card/App	
Communication	Wi-Fi & Bluetooth & Ethernet	Standard	
	OCPP	OCPP 1.6 Json	
Safety	Leakage Current Protection	CCID 20	
	Enclosure Rating	NEMA 4	
	Impact Protection	IK08	
	Electrical Protection	Over current protection, Residual current protection Surge protection, Over/Under voltage protection, Over temperature protection	
	Certification	UL/FCC/Energy Star	CSA/FCC/Energy Star
	Certification Standard	UL2594 UL2231-1 UL2231-2 FCC Part 15B	
	Warranty	2 Years	
Working Environment	Operation Temperature	-30℃ ~+50℃ (-22 ℉ -122 ℉)	
	Work Humidity	5%-95%	
	Work Altitude	≤2000m	
Package	Product Dimension	344*192*101mm(H*W*D)	
	Net Weight	6.3kg	5.5kg
	Gross Weight	8kg	6.5kg
	External Package	Carton	

Cloud Platform

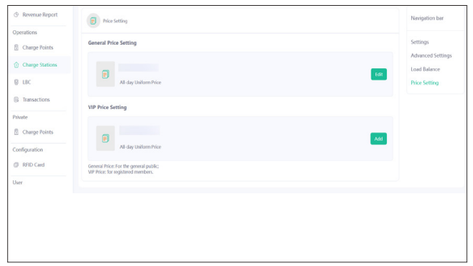
Dedicated to enable the future of e-Mobility by providing the most open, secure and robust charging network everywhere, a charging platform based on the cloud server makes it simple and convenient to meet the diverse demands of charger operators, charging users and e-Mobility service providers. We provide everything you need to offer a complete EV charging solution.

- **Management System:** A central system for charger operators to manage charge points and monitor charging service. Status monitor, charge record, prices management, firmware upgrade, remote diagnose, and load balance are offered in one capable system.
- **Mobile App:** A charging App for EV drivers who needs charging service. Prices, locations, availability, start/stop charging, and auto billing are available in an easy way.
- **Interoperability:** Connections with e-Mobility Service Providers who have EV drivers as customers are viable through the open charge point interface protocol (OCPI).



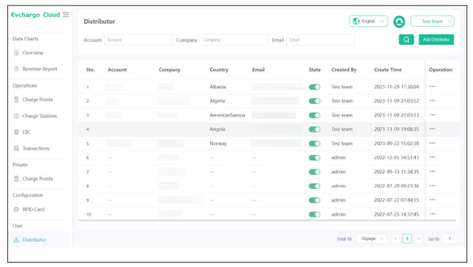
Management System

The management system is designed for operators to manage the charge points and the charging service to all users. The future of charging is smart, and our management system is equipped with future-proof features. The system works on the cloud, which enables us to update new features rapidly.



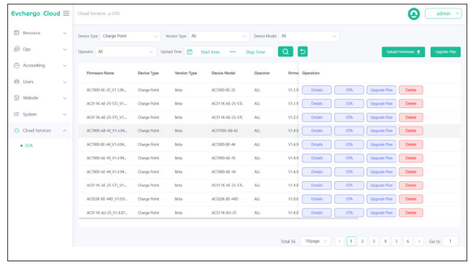
Fee Pricing Strategy

- Use third-party payment platforms such as Stripe, PayPal, Nets for fund transactions.
- Set different fee rates for different types of users to meet different needs.



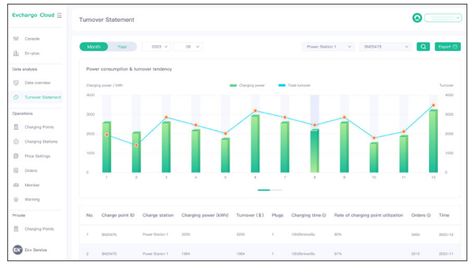
Distributor Cloud Platform Management

- Customers can grow their network by developing sub and creating merchant accounts.
- Distributor accounts are emailed to allow access to our platform, with data automatically synchronised with parent accounts.



Smart O&M

- Real-time back-end monitoring of site and station data.
- Technical staff can view and analyse logs through the back-end system and resolve equipment issues via remote OTA upgrades.



Operational Data Analysis

- Customers can examine daily/monthly charge volume and revenue data by time dimension.
- Statistical data analysis at station/site level, with export support for reference purposes.

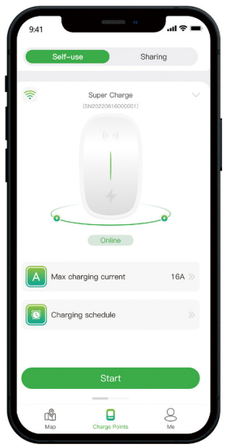
Mobile App

The charging App connects EV drivers with charging stations, so that they can easily find a charger and enjoy the charging service. It enables users to do location search, charging monitor and payment settlement. All is done in a mobile phone.

PV Green Energy
0 cost for green mode solar charging
Effective mixed mode charge with both solar and grid energy

Smart Charging
Wi-Fi | Bluetooth | Plug & Play

Scheduled Charging
Set periodic scheduled charging



Load balancing
Support for adjusting EV charger output

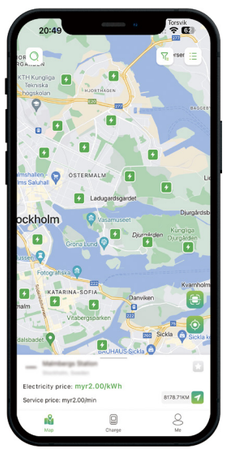
Device Authorisation
Support for authorising use by friends and family

Charging Data
Facilitates maintenance and adjustment of the charge station layout.

Account Sign up
Easy sign up with a mobile phone number

Location Search
Quick search for available charging facilities

Charging Operation
Friendly interface and convenient operation



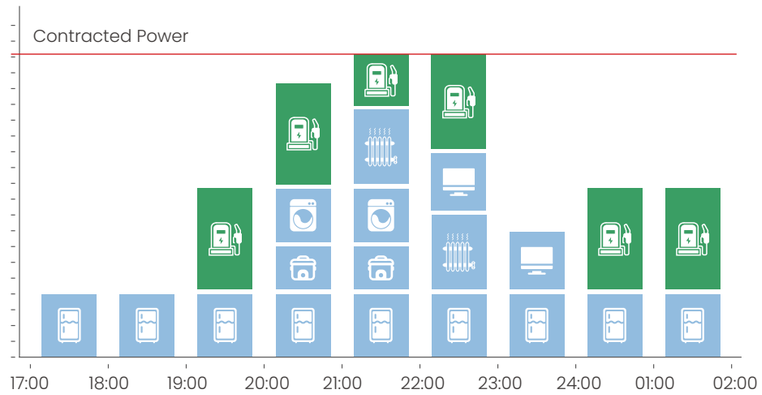
Real Time Monitor
Real time presentation of charging consumption

Cashless Payment
Mobile payment from credit card, like Nets, PayWay Stripe

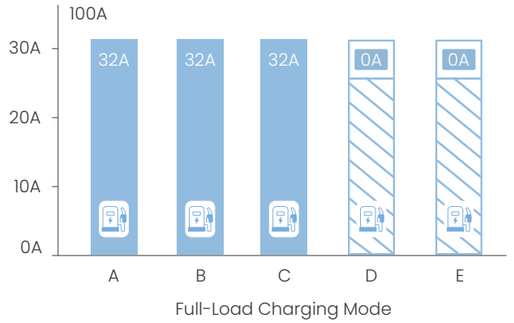
Auto Billing
Secure billing through registered account

Load Balancing Solution

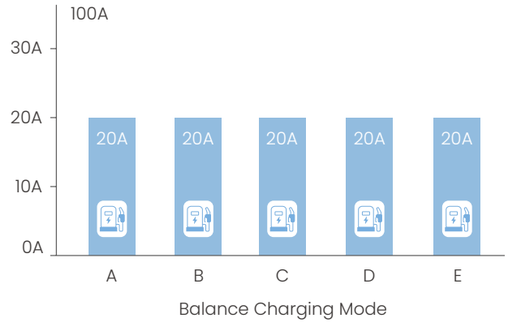
Single Charger Load Balancing Solution
When the power consumption exceeds the limit, the charger's current is restricted to protect house load.



Multi-Charger Load Balancing Solution
1. Full-Load Charging Mode: first come first charge, responding to different users' need.
2.Balance Charging Mode: evenly distribute power to all chargers, relieving anxieties with

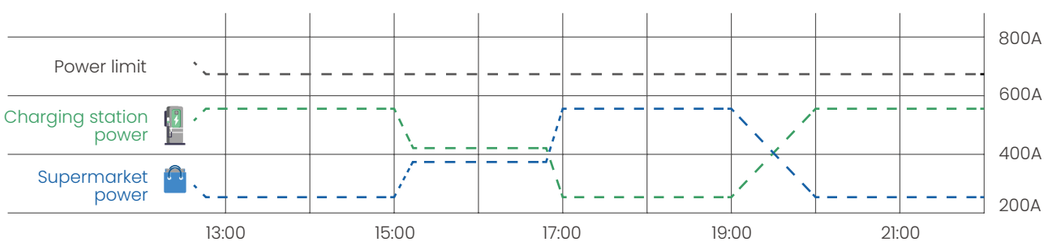


Full-Load Charging Mode



Balance Charging Mode

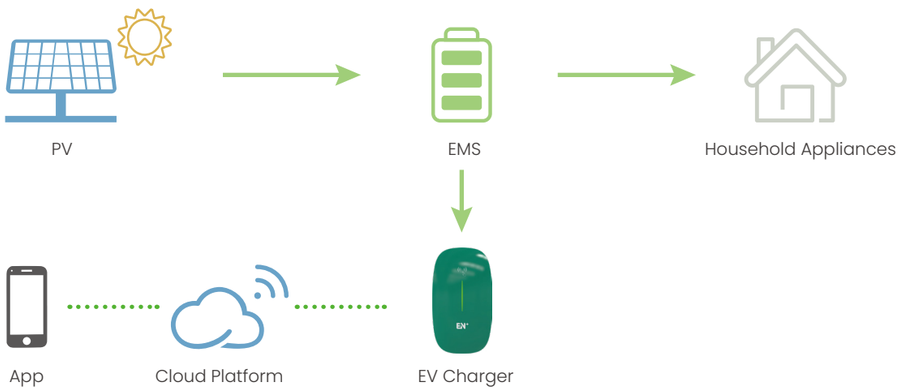
Intersite Load Balancing Solution
When there are large supermarkets or high power consuming communities around the station, the station dynamically obtains electricity consumption information from the grid and adjusts its maximum power. This solution create an electricity-friendly community by protecting the grid.



Solar Charging Solution

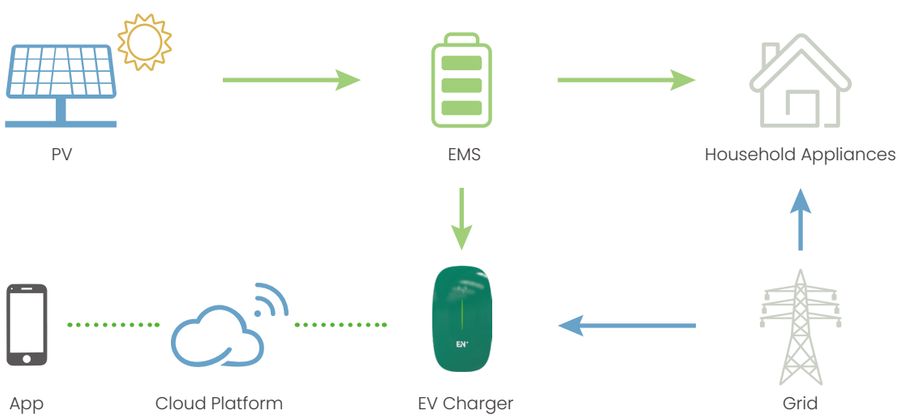
Green Mode

After PV generated power is supplied to other household appliances, there is still surplus electricity that can start the charge points (>6A).



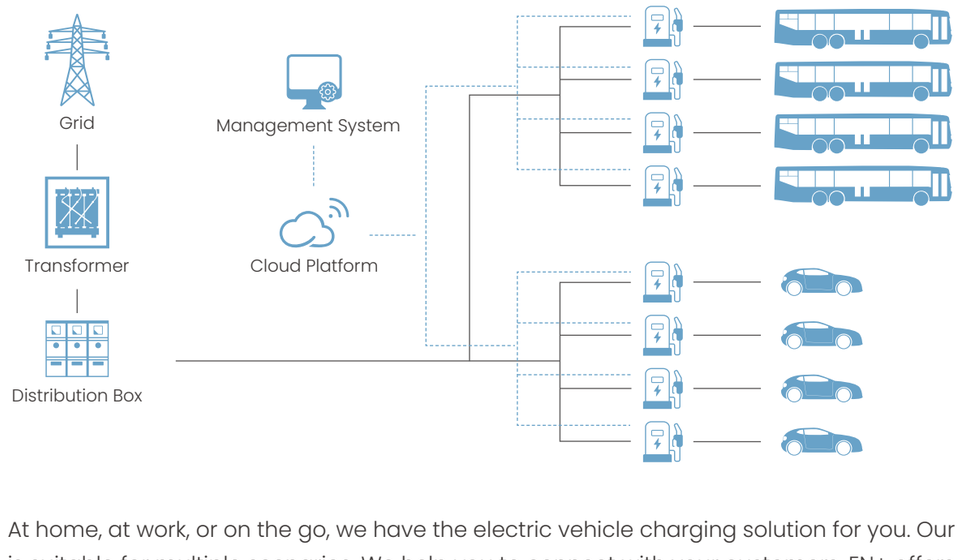
Mix Mode

After PV generated power is supplied to other household appliances, the surplus energy is insufficient to start a charge point (0-6A). The charge point charges according to user's settings to use up all the surplus electricity, and the power grid makes up the insufficient electricity.



Charging Solution

We provide everything that's needed to build a charging business, from charging facilities to customer services and smart energy management solutions. You can either manage your own network of charging stations or provide the service for other charger operators. All solutions are whitelabelled and can be customized to meet your customers' needs.



At home, at work, or on the go, we have the electric vehicle charging solution for you. Our solution is suitable for multiple scenarios. We help you to connect with your customers. EN+ offers all you need for running a robust charging business.

Smart Charging Parking Lots

Residential Parking Lot

Charging Stations in Shopping Malls and Tourist Attractions

Commercial Parking Lot

Home and Private EV Charger Shared Charging

Private Home Garage

Battery Swapping Stations for EV Charging

Energy Utilities/Storage

Remote Charging for Logistics and Private Vehicles

Mobile Charging

Centralized Charging Stations for Buses

Bus Charging Station

OEM Support for Vehicle Manufacturers

Automobile Service Shop

Centralized Charging Stations for Rental Services

Taxi Charging Station

Centralized Charging Stations for Public Use

Super charging station

Charging Stations at Highway Service Areas

Super charging station

Project Cases



















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