EN+

PRODUCTS
MANUAL

Shenzhen EN Plus Tech Co., Ltd.

Global Supplier for EV Charging Facilities
and Software Platform

Company Introduction

- Founded in 2015, total-solution supplier of EV charging station and cloud management system

- Top R&D team in China, rich experience in international protocol (OCPP 1.6J above)

- Full-range products, exported to over 60 countries and regions since 2016

- Independent capability of design, manufacture and sales, all-in-one service

- Product line covers Portable Charger, AC Charger, DC Charger, Power Module and Cloud Management System and Mobile App, all independently developed by ourselves

Global Partners

Certification

IATF 16949 Certification

ISO 9001 Quality Management System Certification

EN Plus Brand Trademark Registration Certification

National High-tech Enterprise Certification

Shenzhen High-tech Enterprise Certification

Management System Software Certification

Software Industry Association Member

Computer Software Copyright Registration Certification

National Patent Certification

Cape Certification

CQC Certification

CE Certification

Certification Test Report

Why Choose Us

Product Portfolio

- Rich Product Series & Certifications
- Versatile Software Ecosystem for Service
- Comprehensive Solutions for Scenario Applications

Tech Innovation

- 100+ Independent R&D Patents
- Forward-looking Technology Research Reserves
- Efficient and Customized Services.

Production & Delivery

- Automotive-grade Quality Standards
- Fully Integrated Intelligent Production Line
- Digital Management System

Service Support

- Global Market Service Capabilities
- Comprehensive Product Service Management
- 24/7 Online Support.
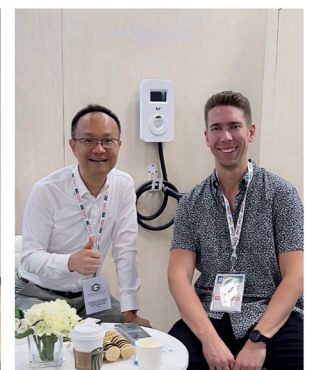
Silk Series Home Wallbox

The Silk Series Home Wallbox is a stylish and user-friendly charging solution with a SAE 1772 (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

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)
- Scheduled charging

10kW   12kW

Pearl White   Starry Black   Space Gray

FC   ENERGY STAR   CSA

cULus LISTED   10kW Plug&Play
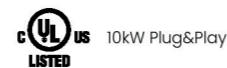
Silk Series Home Wallbox

Datasheet	Model	AC010K-AU-35	AC012K-HU-35
Electrical Specification	Power Supply	L1+L2+G	
	Rated Voltage	240V AC	
	Max Current	40A	50A
	Frequency	60Hz	
	Max Power	10kW	12kW
Basic Attributes	Wiring Type	NEMA 14-50P	Hardwired
	Charge Connector	SAE 1772 (Type 1)	
	Cable Length	7m (23 feet) / 7.5m (25 feet)	
	Enclosure	PC943	
	Color	White Front Cover: PANTONE RAL 9003 Back Cover: PANTONE White C Black (PANTONE Black C)	Space Gray Front Cover: PANTONE 10452 C Back Cover: PANTONE Coolgray 9C
	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	6kg	6kg
	Gross Weight	8kg	7kg
	External Package	Carton	

Solvo Series Business Wallbox

Experience the seamless fusion of performance and style with our 80A American Standard EV charger. With a sleek and stylish exterior, it features a SAE 1772 (Type 1) plug and Tesla NACS connector for seamless connectivity via Wi-Fi, Bluetooth, Ethernet, 4G and OCPP 1.6 Json.

US Standard

Strong Performance

- SAE 1772 (Type 1) Compliant
- NEMA 4 dustproof & waterproof design
- CCID20 leak current protection
- IK08 impact protection

High Compatibility

- SAE 1772 (Type 1) connector for American market
- OCPP1.6 Json standard protocol

Smart Operation

- Multi communications
  (Wi-Fi / Bluetooth / Ethernet / 4G)
- Dynamic load balancing
- PV compatible
- Scheduled charging

Flexible Options

- App / Plug to Charge / RFID to start
- Wall-mount / Pole-mount
- Optional with cable management pedestal

Solvo Series Business Wallbox

Datasheet	Model	AC019K-AU-52F1
Input	Power Supply	L1+L2+GND
	Rated Voltage	208V / 240V AC
	Rated Current	80A
	Adjustable output	10A~80A
	Frequency	60 HZ
	Rated Power	19.2KW
	Power Measurement Accuracy	On-board metering with ±1% accuracy at the nominal input
Basic Attributes	Charge Connector	SAE 1772 (Type 1)
	Cable Length	25ft (7.5m)
	Enclosure	PC
	Color	Space Gray Front Cover: PANTONE 10452C Back Cover: PANTONE Black C
	Installation	Wall-mount / Pole-mount (Optional)
User Interface	LCD Indicator	7" Color Touch Screen
	LED Indicator	Green / Yellow / Red
	RFID Reader	Mifare ISO / IEC14443A
	Start Mode	Plug to Charge / RFID card / App
Communication	Wi-Fi & Ethernet & Bluetooth& 4G	Standard
	OCPP	OCPP 1.6 Json
Safety	Leakage Current Protection	20mA CCID
	Ingress Protection	NEMA 4
	Impact Protection	IK10 (w / o Screen)
	Electrical Protection	Over current protection, Residual current protection, Surge protection, Over / Under voltage protection, Over temperature protection
	Certification	CTEP, ETL, FCC / IC, Energy Star
	Warranty	2 years
Environment	Operation Temperature	-35℃~+55℃
	Work Humidity	5%~95%
	Work Altitude	≤2000m
Package	Product Dimension	390*255*140mm (H*W*D)
	External Packing	Carton

01	02	03	04
Download the App and sign up an account.	Plug the charging cable into EV.	Scan QR code to start the charging.	Stop charging in the App and settle payment automatically.
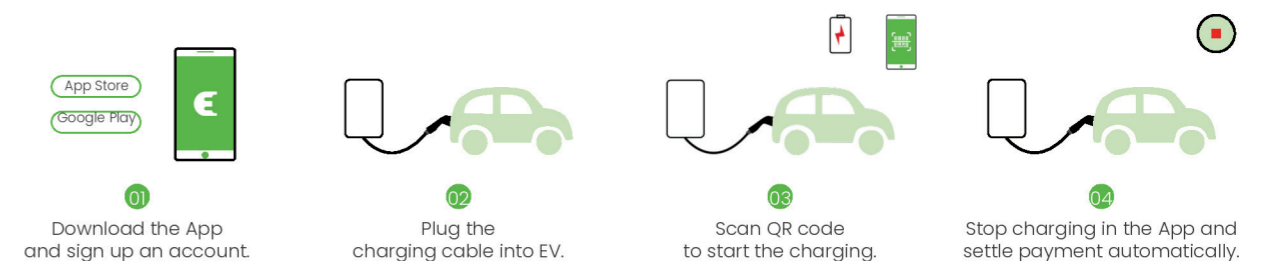
Cloud Platform

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).
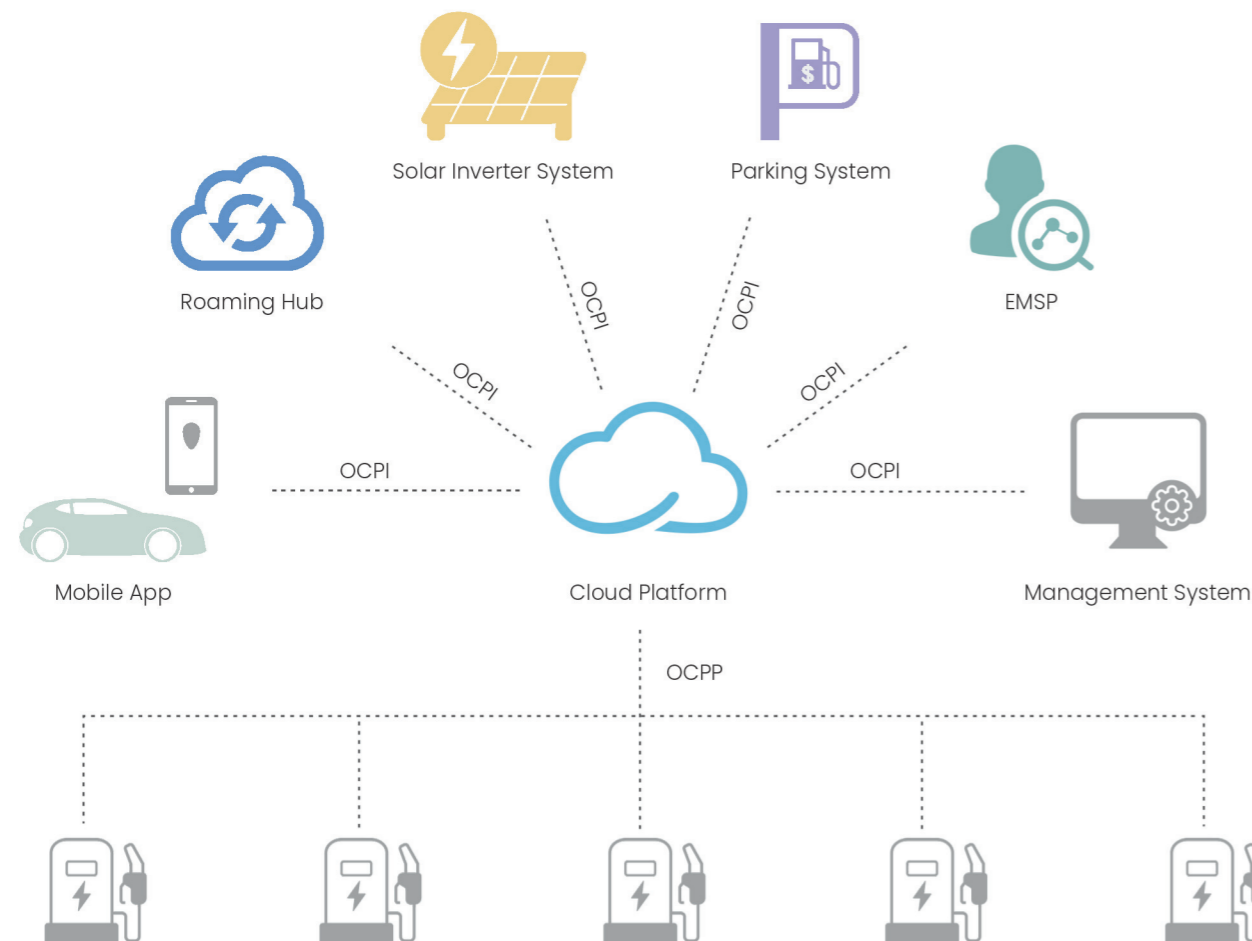
Management System

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.
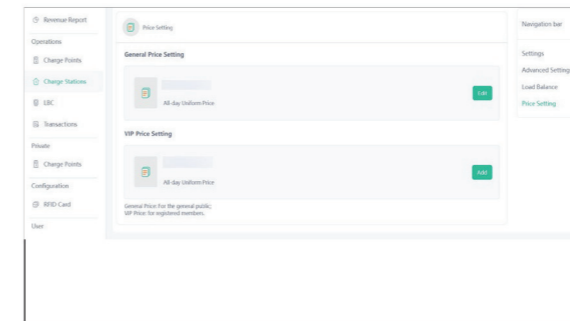
Fee Pricing Strategy
- Use third-party payment platforms such as Stripe, PayPal, Nets for fund transactions.
- Set different fee rates for different types of users to meet different needs.
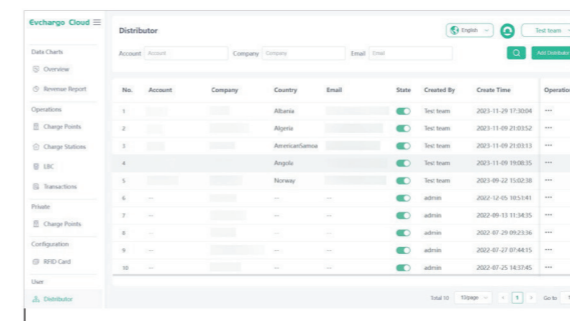
Distributor Cloud Platform Management
- Customers can grow their network by developing sub and creating merchant accounts.
- Distributor accounts are emailed to allow access to our platform, with data automatically synchronised with parent accounts.
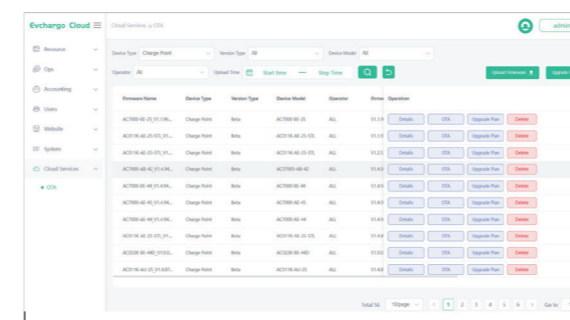
Smart O&M
- Real-time back-end monitoring of site and station data.
- Technical staff can view and analyse logs through the back-end system and resolve equipment issues via remote OTA upgrades.
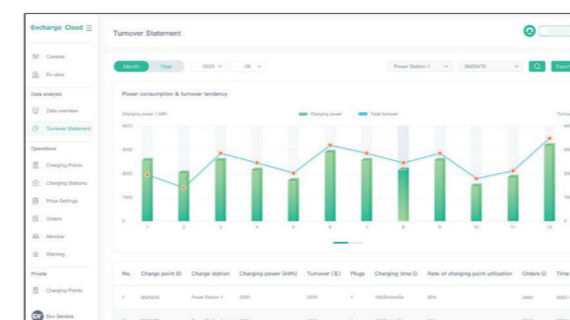
Operational Data Analysis
- Customers can examine daily/monthly charge volume and revenue data by time dimension.
- Statistical data analysis at station/site level, with export support for reference purposes.

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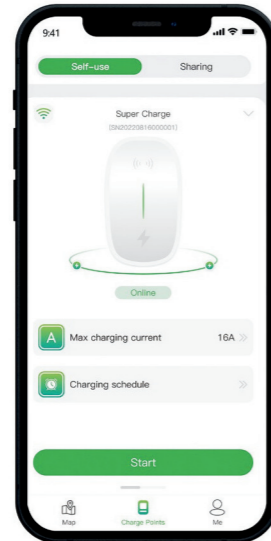
PV Green Energy
0 cost for green mode solar charging
Effective mixed mode charge with both solar and grid energy

Smart Charging
Wi-Fi | Bluetooth | Plug & Play
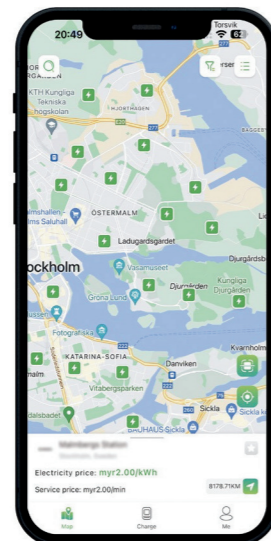
Scheduled Charging
Set periodic scheduled charging

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
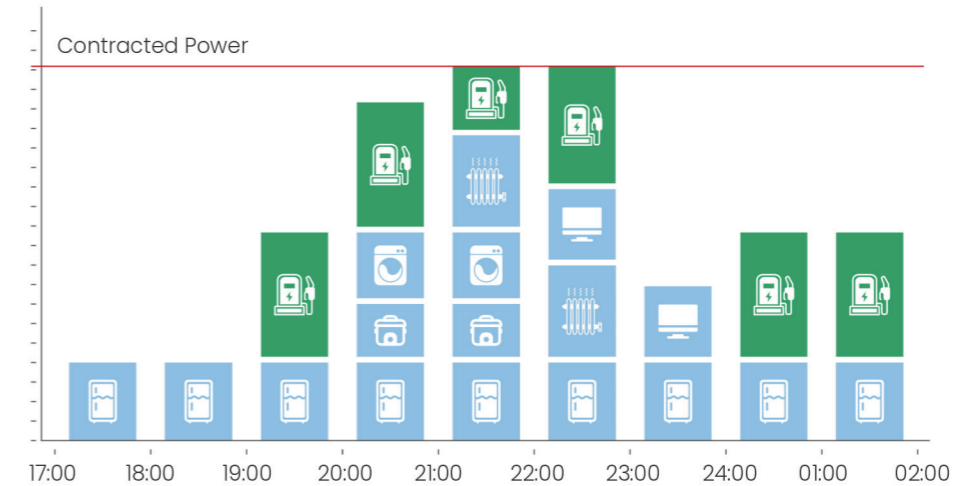Mobile payment from credit card, like Nets, PayWay Stripe

Auto Billing
Secure billing through registered account
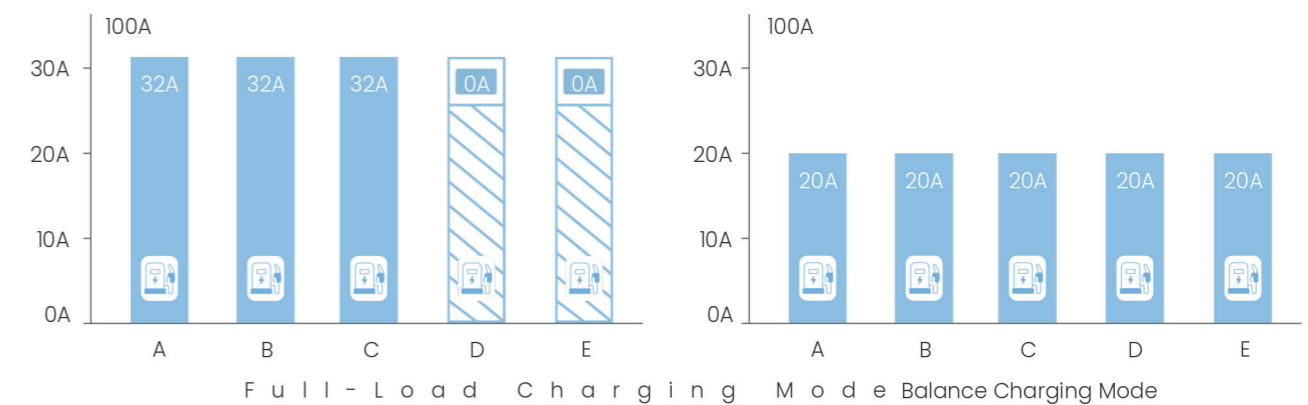
Load Balancing Solution

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

**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.
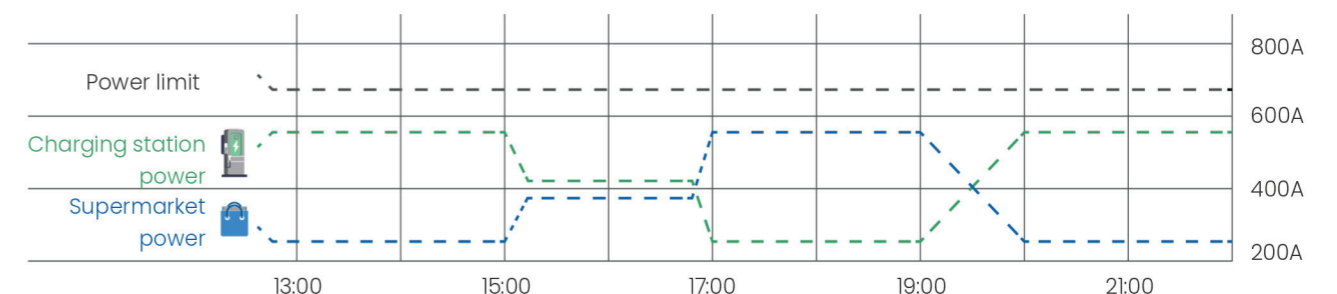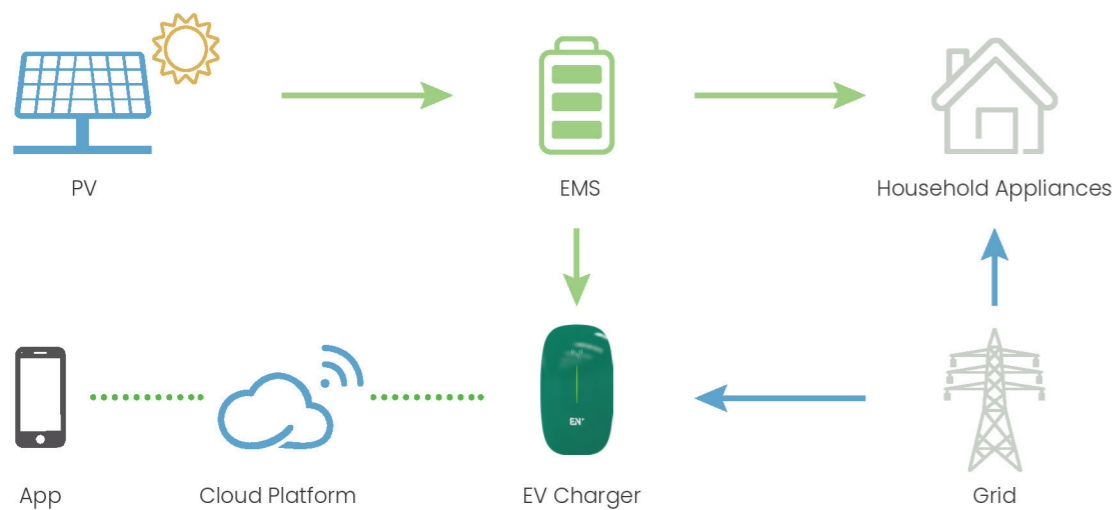
Solar Charging Solution

Green Mode

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

PV → EMS → Household Appliances

App ···· Cloud Platform ···· EV Charger
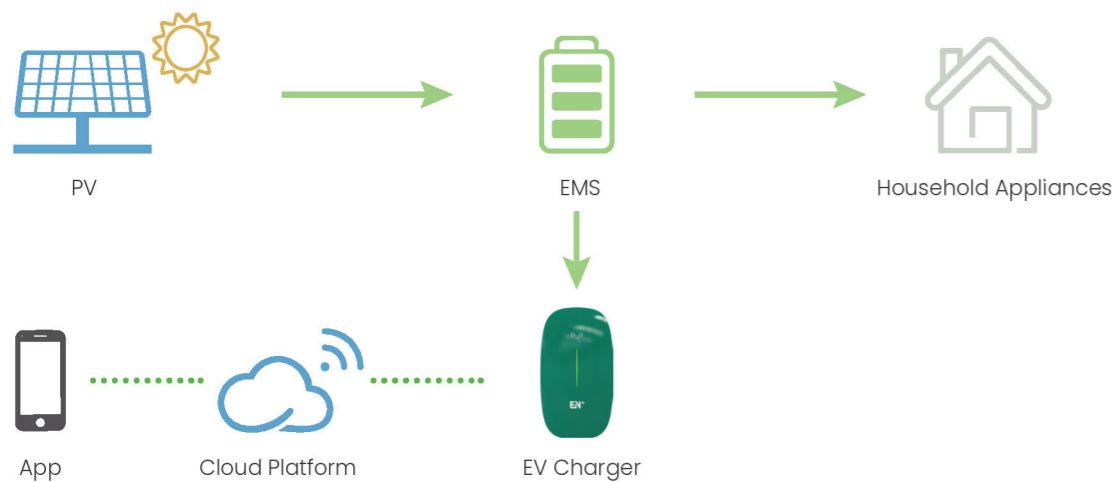
Mix Mode

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.

PV → EMS → Household Appliances

App ···· Cloud Platform ···· EV Charger ← Grid
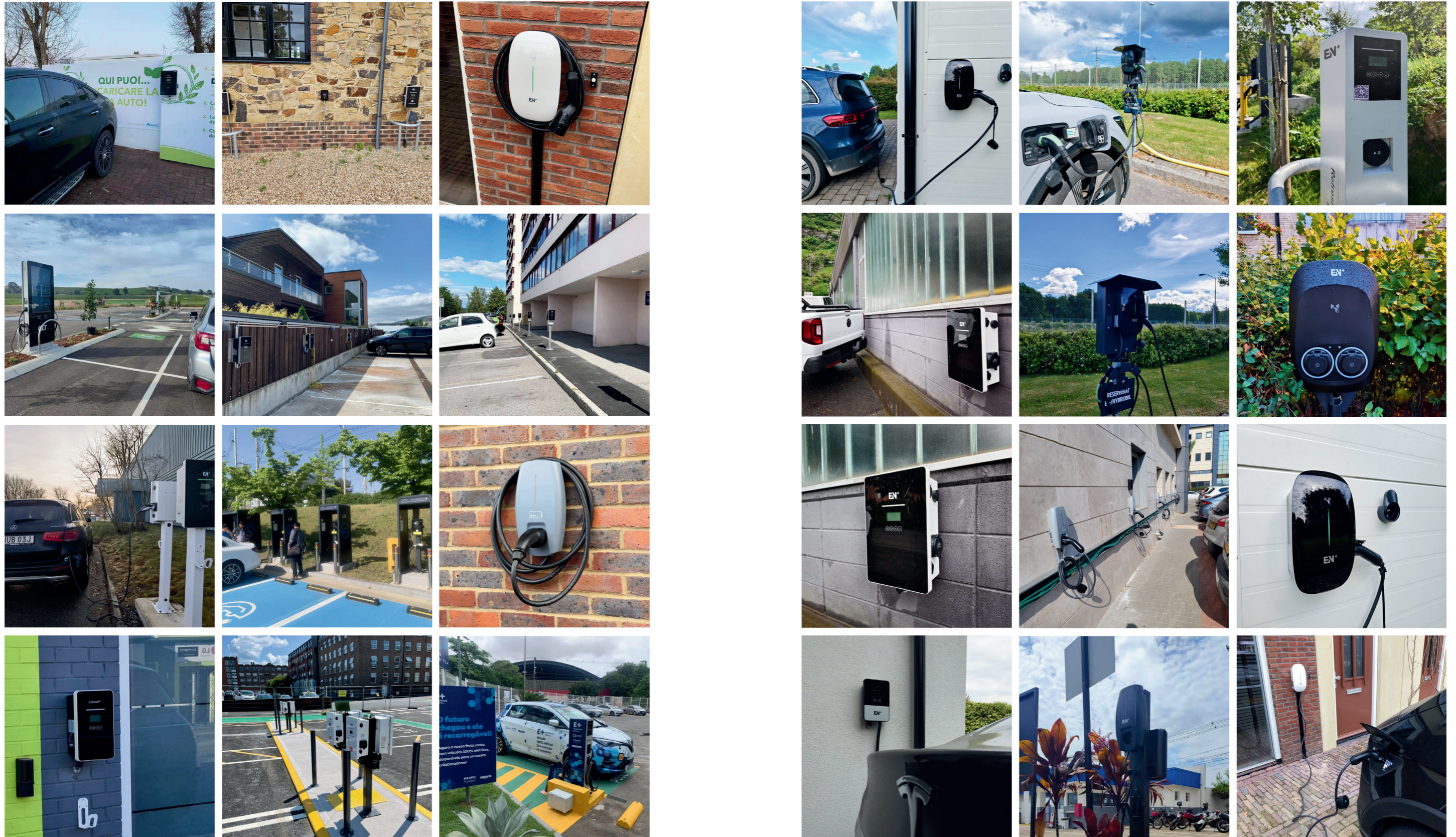
Charging Solution

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.

Grid | Management System
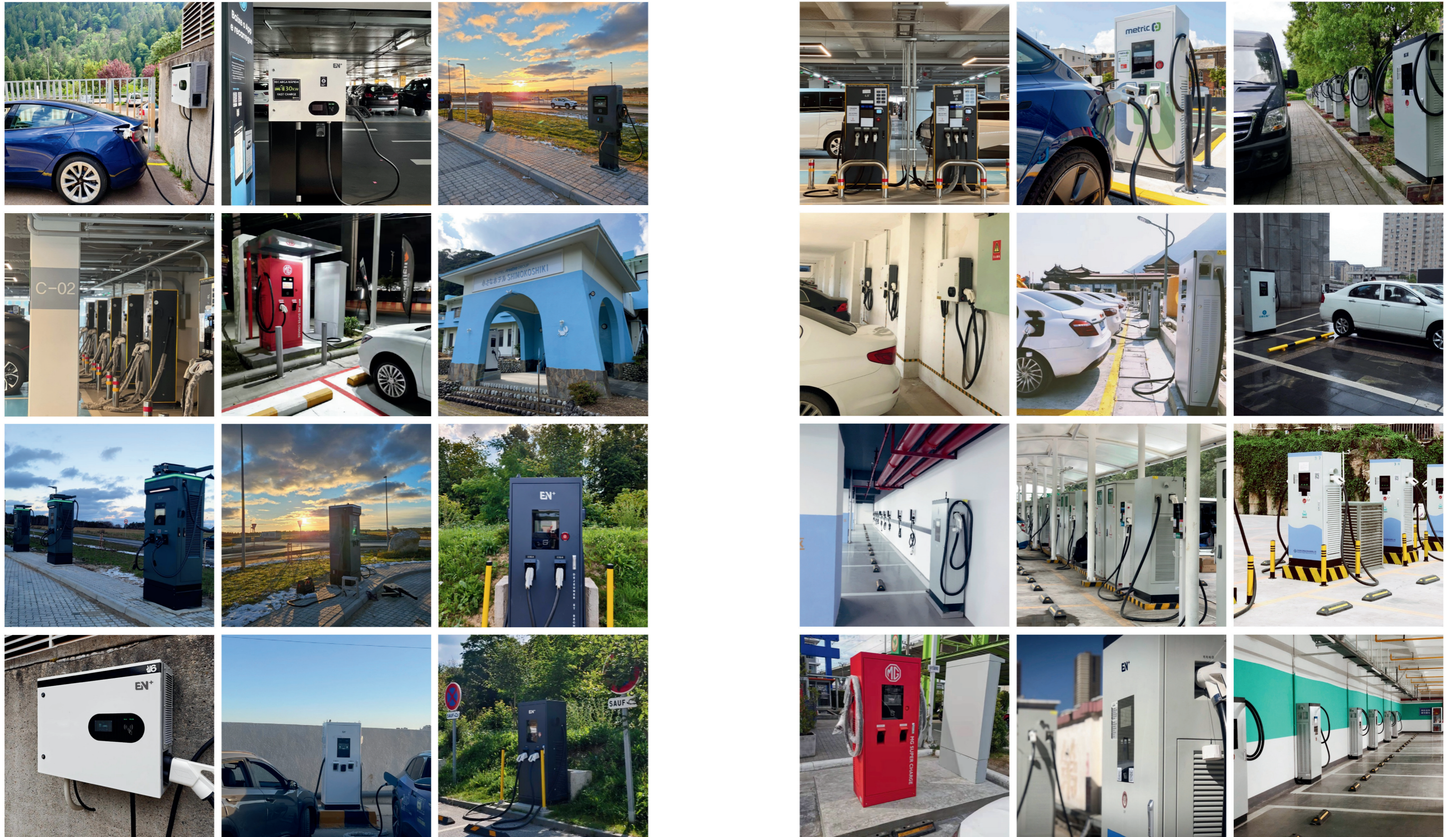
Transformer | Cloud Platform

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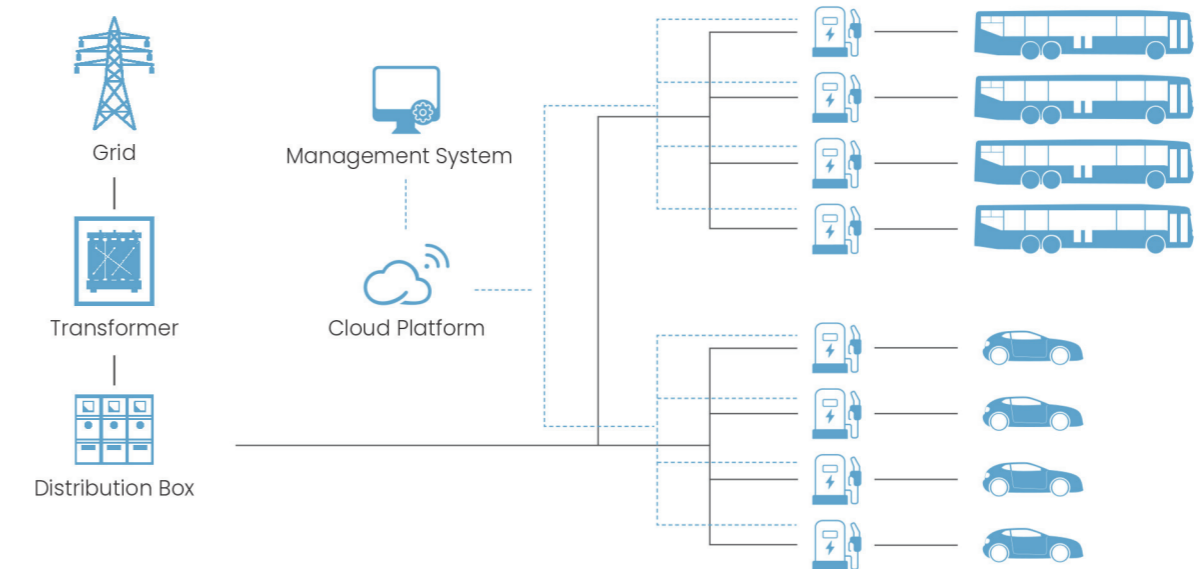
At home, at work, or on the go, we have the electric vehicle charging solution for you. Our solution is suitable for multiple scenarios. We help you to connect with your customers. EN+ offers all you need for running a robust charging business.

Smart Charging Parking Lots	Charging Stations in Shopping Malls and Tourist Attractions	Home and Private EV Charger Shared Charging	Battery Swapping Stations for EV Charging	Remote Charging for Logistics and Private Vehicles
Residential Parking Lot	Commercial Parking Lot	Private Home Garage	Energy Utilities/Storage	Mobile Charging

Centralized Charging Stations for Buses	OEM Support for Vehicle Manufacturers	Centralized Charging Stations for Rental Services	Centralized Charging Stations for Public Use	Charging Stations at Highway Service Areas
Bus Charging Station	Automobile Service Shop	Taxi Charging Station	Super charging station	Super charging station

Project Cases

Project Cases

EN⁺ Shenzhen EN Plus Tech Co., Ltd.