

SolaX Hyper EV Charger



Empower Your Drive with 100% Pure Green Energy

CONTENTS

01

Overview

02

Key
Features

03

System
Solutions

System Overview

X1/X3 HAC series – SolaX smart AC Charging EV charger

- Power rating: single phase 4/7kw, three phase 11/22kw
- Two Type: Socket type, plug type

1-/3-Phase Switchover

Freely adjustable power in the range of 1.4 to 22 kw

AC V2G (hardware Ready)

Support digital communication with vehicle via ISO15118

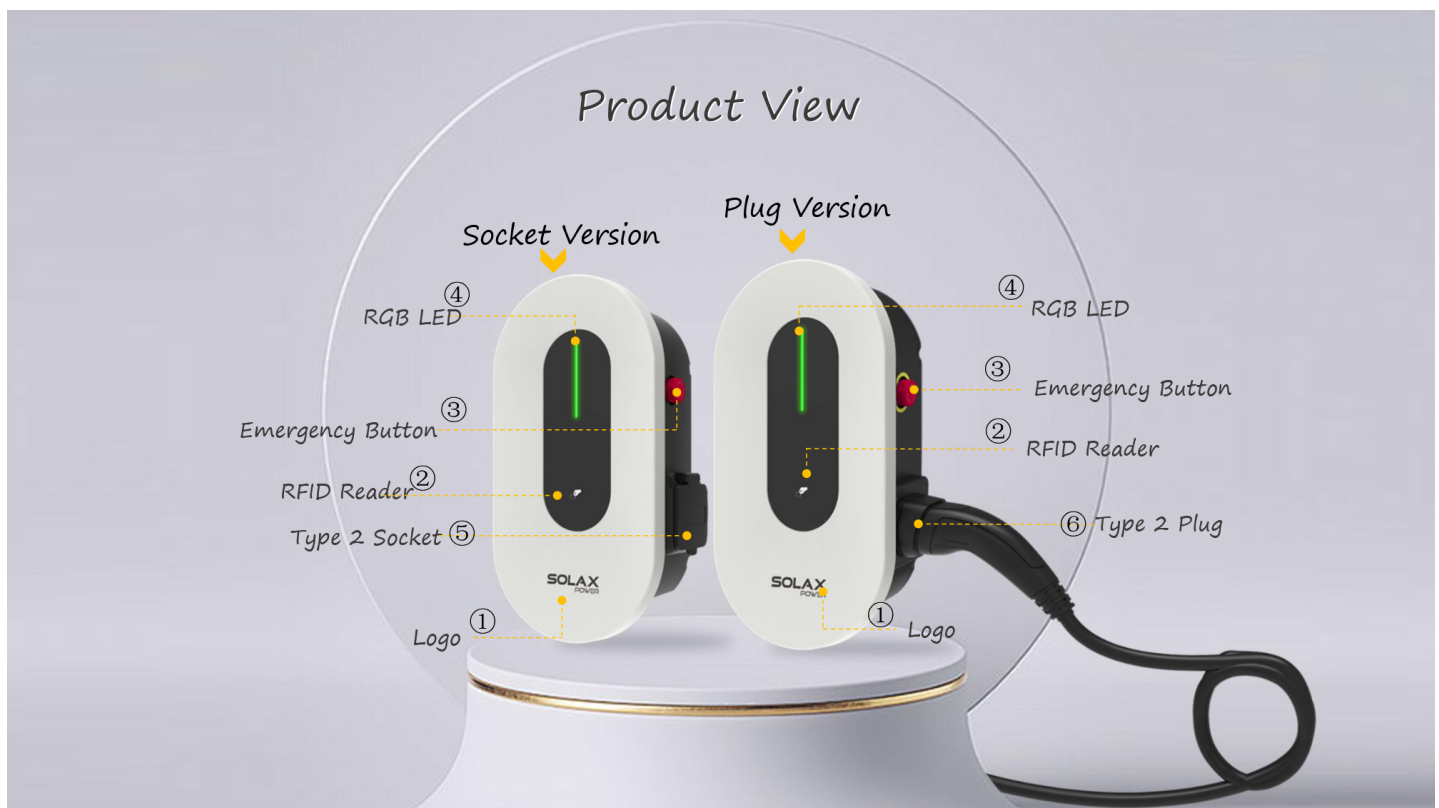
Product & Solution

Enables a combined PV-storage-charging system with Solax inverters and batteries

Compatible with the following devices:

Energy Storage Inverter	Single Phase	X1-Hybrid G4 X1-FIT X1-IES
	Three Phase	X3-Hybrid G4 X3-FIT X3-IES X3-Ultra
String Inverter	Single Phase	X1-Mini G3/G4 X1-Boost
	Three Phase	G3/G4 X3-PRO G2 X1-Smart G2 X3-MIC G2





Naming Rule



X1 - HAC - 7P - L/E -
B

B - Black housing

L - with LCD, blank - without LCD

E - with PEN protection,
blank without PEN protection

4: 4.6kw; 7: 7.2kw; 11: 11kw;

22: 22kw

P-Plug; S- Socket

Series Name: HAC

X1- single phase; X3- three phase

Key Features

1-/3-Phase Switchover

- Freely adjustable power in the range of 1.4 to 22 kw

Intelligent

- Green/Eco/Boost charging modes adjustable
- Dynamic loads balance
- Smart control and monitoring via SolaX APP

User Friendly

- Support voice control
- Easy installation
- RFID/NFC/APP authentication modes supported
- IP65 and IK10

AC V2G (hardware Ready)

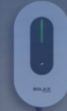
- Support digital communication with vehicle via ISO15118

Open Connectivity

- Support OCPP, Modbus TCP/RTU, Open API protocols
- SolaX Cloud API Accessible to EMS
- Wi-Fi, LAN and 4G multiple networking solutions supported

Multiple Application Scenarios

- Support maximum 60 units in parallel with datahub, ease meets C&I needs
- Scheduling charging to lower household electricity costs
- Integrate with third-party platform

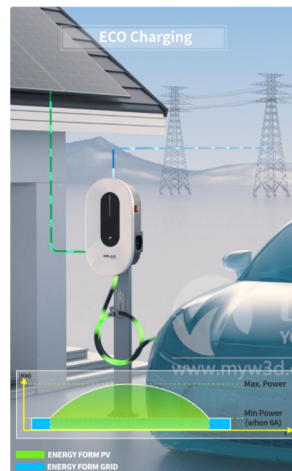


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Charging Mode



Charge the EV fully and exclusively with renewable energy



Balance renewable and grid energy to maintain efficiency while charging EVs

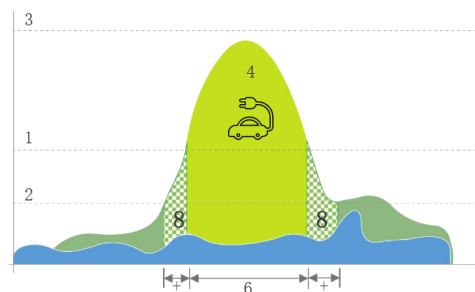
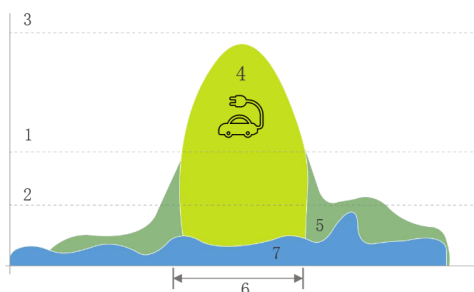
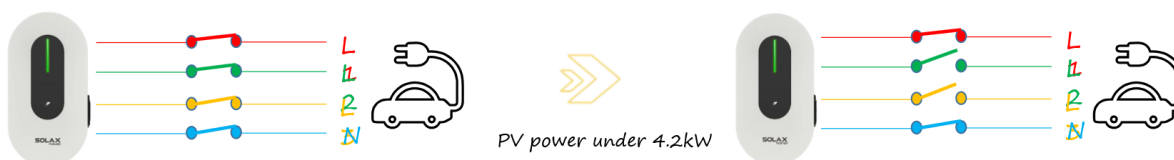


Charge the EV at peak current by using highest current available from inverter and the electrical grid

Charging Mode

Green Mode — 1-/3- Phase Switchover

Enable power charging from 1.4 to 22 kW, dynamically adjusting with PV utilization

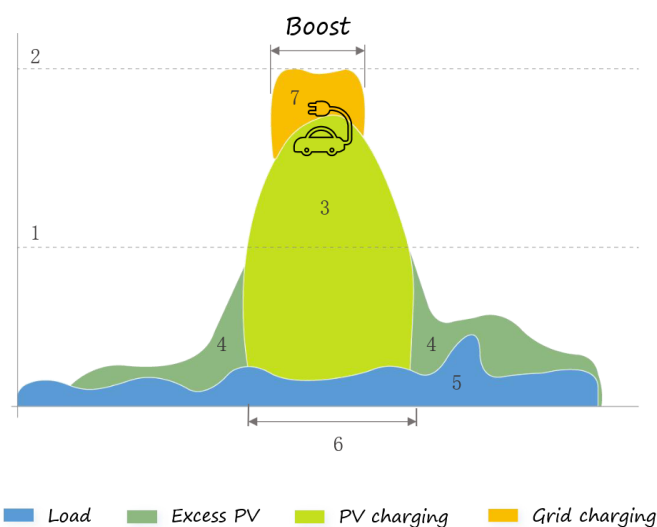


Charging Mode

Green mode and ECO mode — Boost Function

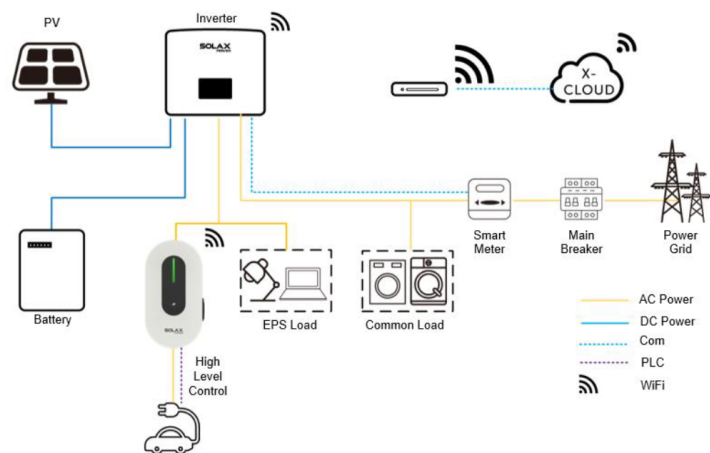
The HAC series features a Boost charging function in its Green mode and ECO mode, allowing electric vehicles to be quickly charged for a specific period.

This feature is particularly useful during periods of low electricity tariffs to facilitate cost efficiency or in scenarios where the vehicle is required urgently, catering to immediate user needs.



AC V2G (hardware Ready)

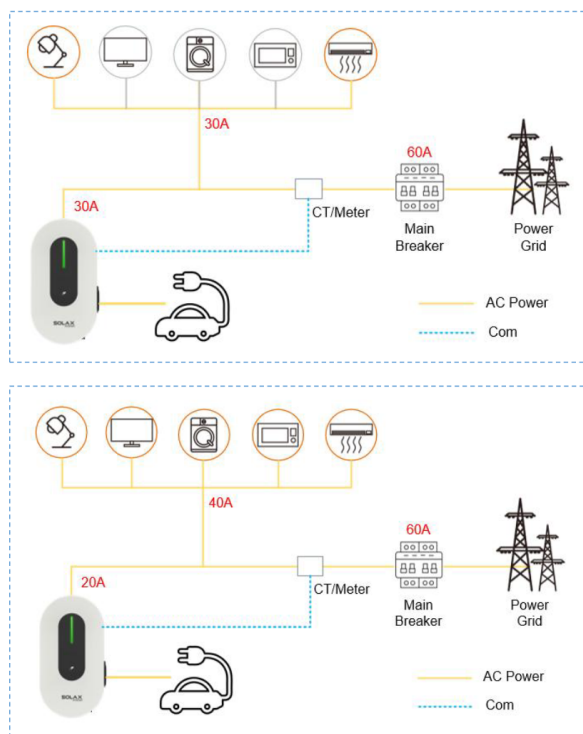
Support digital communication with vehicle via ISO15118



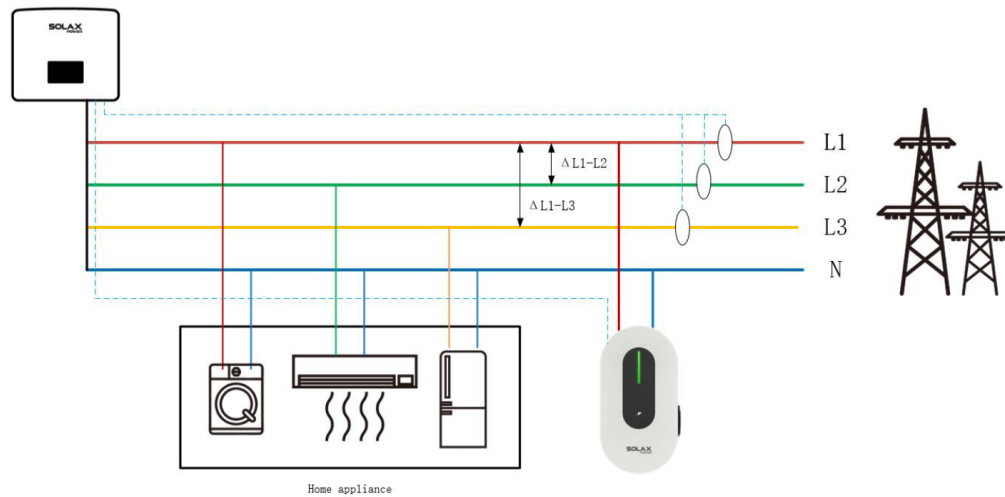
The HAC series, featuring V2G hardware, will support ISO15118 protocol features through a software upgrade after development is finalized.

Dynamic Load Balance

The HAC series can automatically adjust charging power based on household electricity capacity limits, ensuring the safety of home electricity use.



Dynamic Phase Power Balance



In a three-phase power grid, the HAC series single-phase products support dynamic adjustment of charging power based on the power difference between phases, ensuring the balance of the three-phase electrical grid.

Multiple Authentication Modes



- Third-party cards can be added to card management through EV charger
- Using a smartphone's NFC functionality to clone RFID card information, allowing the smartphone to be used directly as a card.

Interoperability

Wi-Fi, LAN and 4G multiple networking solutions supported



Interoperability

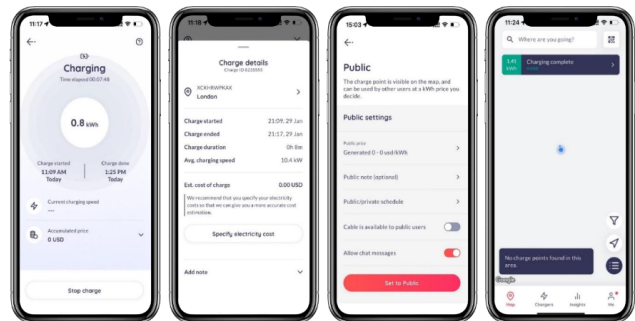
Support OCPP, Modbus TCP/RTU, Open API protocols to communicate third-party devices and platforms

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Interoperability

Support Monta and ~~Ampeco~~ OCPP platform



For the businesses, and industry partner, they can directly connect their equipments to Monta platform for operation and management without complicated matching.

For end users, they can also use Monta APP to share and rent EV Charger.

* Monta is a platform designed to improve the electric vehicle (EV) charging experience. It offers software solutions for EV drivers, businesses, and industry partners, supporting over 500,000 public charge points and compatible with more than 400 charger models.

Interoperability

Support communicate with Amazon Alexa



Users can effortlessly control the Solax HAC Series via voice commands using their Amazon speakers

Easy Installation

The back panel integrates terminal blocks for easier wiring installation.

Separation of power and communication lines ensures a safer installation.



Top Cover

Middle Frame

Base

Highly Safe

IP65
IP65 waterproof
and dustproof rating



IK10
IK10 impact
resistance rating



Leakage
Leakage protection



Relay
Relay sticking
detection

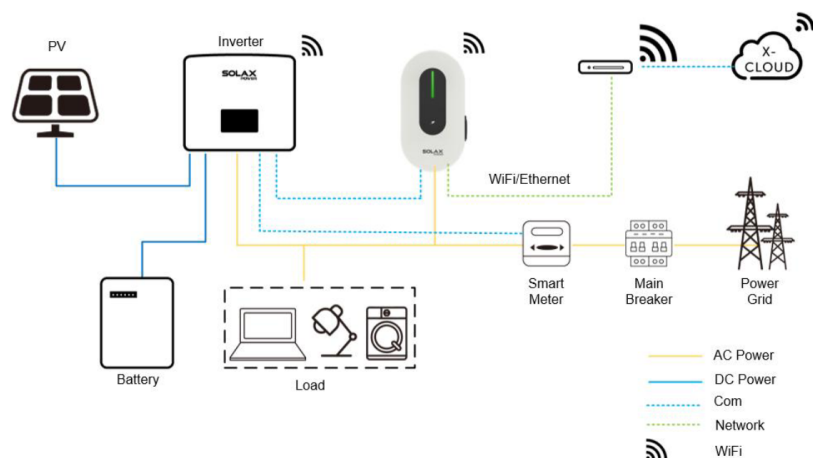


Display & Control on SolaX APP

- Multi-time slot charging scheduling
- Max charging current control
- User card management for charging station
- Charging fee administration
- Remote status monitoring and adjustment
- Charging history management



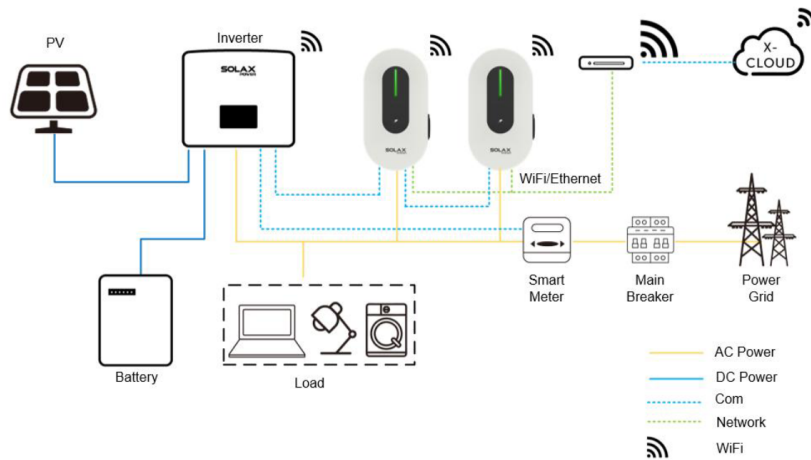
Typical Residential System Solution



Photovoltaic inverter, energy storage battery, electric vehicle charging station form a integrated PV storage and charging system.

Whole system with integrated control logic improves higher photovoltaic energy utilization rate.

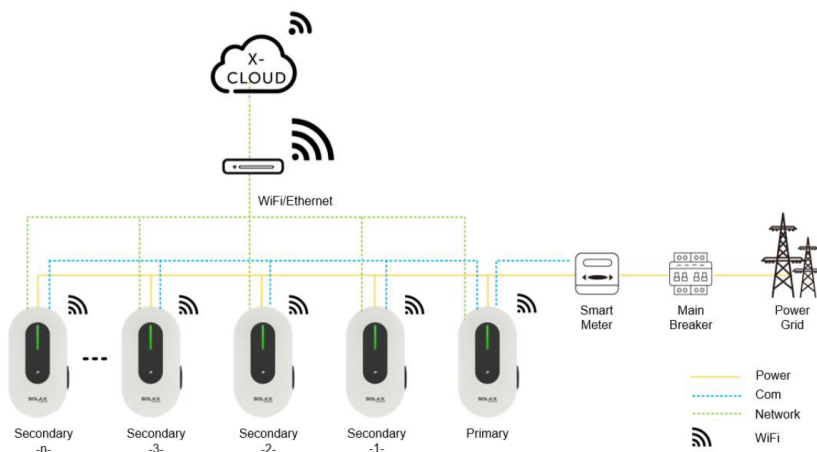
Parallel Function for Residential Scene



The two charging stations communicate to distribute solar power in an organized manner, thereby increasing the utilization rate of photovoltaics while ensuring stable operation of the electrical grid.

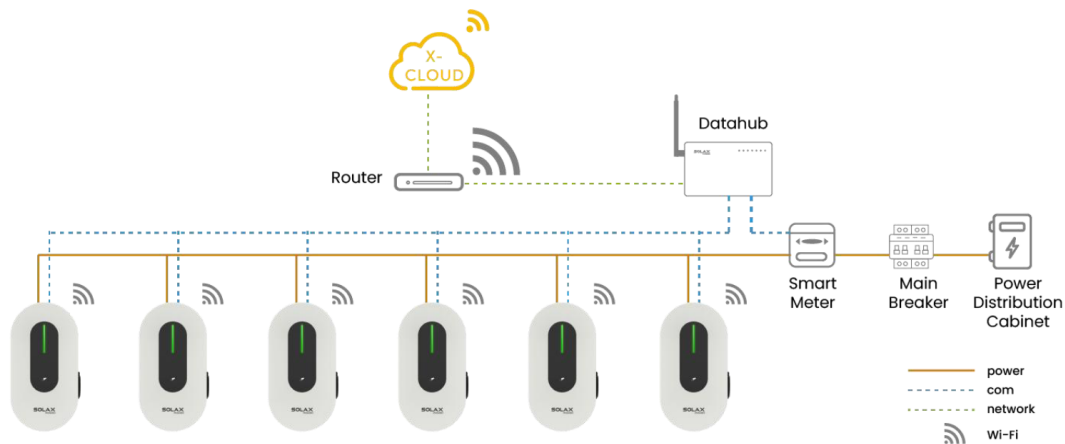
Photovoltaic Scenario

Parallel Function for Commercial Scene



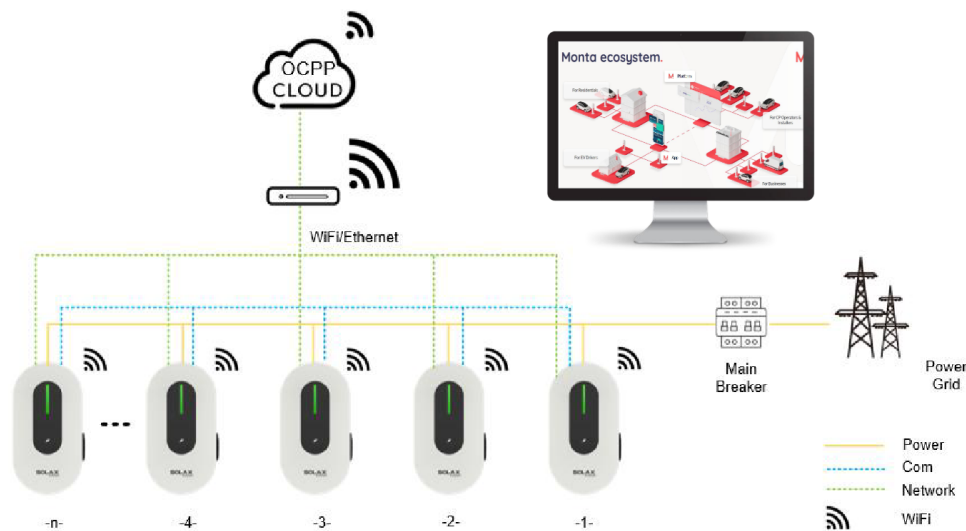
In small destination charging setups, multiple units can be grouped together to distribute power capacity autonomously, avoiding erratic fluctuations without the need for dynamic load controllers.

Destination Charging System Solution



- Datahub can support up to 60 units in parallel.
- Datahub centrally manages power distribution for charging stations, preventing capacity limits from being exceeded.
- Supports both wired network and optional 4G connectivity to link to the cloud platform.

Public Charging System Solution



Connected to the OCPP platform via multiple network options (WiFi, Ethernet, optional 4G).

*External electricity meter required for precise energy accounting on the OCPP platform

