

SECOND GENERATION EV CHARGER

The AC EV charger is a new product launched by Fox ESS . Its appearance of this product adopts a streamlined and simple design, which is more refined and glitzy. Through the App, car owners can choose the Bluetooth smart lock, timing charging function, or change it to plug and play mode. At the same time, it can monitor charging information, set EV charger parameters, bind equipment and authorization, and upgrade remote software.



Innovativeness Design

Streamline design



Intelligent Control

Wireless communication (WiFi/Bluetooth)
 OCPP communication protocol with the backend
 Smart charge or scheduled charge by App



Energy Saving

Standby power consumption is less than 2W, excellent energy-saving efficiency



Flexible Option

Type 1 or Type 2 charging cable
 App operation or plug and play
 Wall-mounted or floor-stand installation



Secure and Safe

6mA DC residual current protection
 Anti-welding protection
 IP65 rated

- Power: 22kW
- Output Current: Max.32A
- Output Voltage: 400V AC
- Type 2 cable charging connector
- Compliant with OCPP 1.6 (JSON)/2.0
- App operation or RFID authentication or plug, play & 4G
- Protection Grade: IP65
- -30 ~ 50°C wide Operating Temperature
- Warranty time: 3 years



SECOND GENERATION 22KW EV CHARGER

TECHNICAL SPECIFICATIONS



MODEL	A022KP1-E-2	A022KS1-E-2
TYPE	CHARGING PLUG	CHARGING SOCKET
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	400Vac, ±20%	
Maximum Current	32A	
Frequency	50/60Hz	
OUTPUT		
Voltage	400Vac, ±20%	
Maximum Current	32A	
Rated Power	22kW	
USER INTERFACE & CONTROL		
Connector Type	Type 2 cable	Type 2 socket
RFID Reader	Mifare ISO/IEC 14443 A	
Start Mode	Plug&Play/RFID card/App	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G, Ethernet	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-30°C ~ 50°C	
Operating Humidity	5% ~ 95% No condensation	
Operating Altitude	≤2000m	
DIMENSION AND WEIGHT		
Product Dimension	320*190*130 mm	320*190*144.5 mm
Product Weight	3.55kg	2.0kg
SAFETY		
IP protection rating	IP65	
IK protection rating	IK08	
Residual Current Detection	AC 30mA/DC 6mA	
Electrical Protection	Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection	
EMC	Class B	
Certification	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	

Dynamic Load Balance SOLUTION (APP Setup)

Adjustable the Max charging current
Avoid Home Overload (Break Off)

DLB for Residential charging system

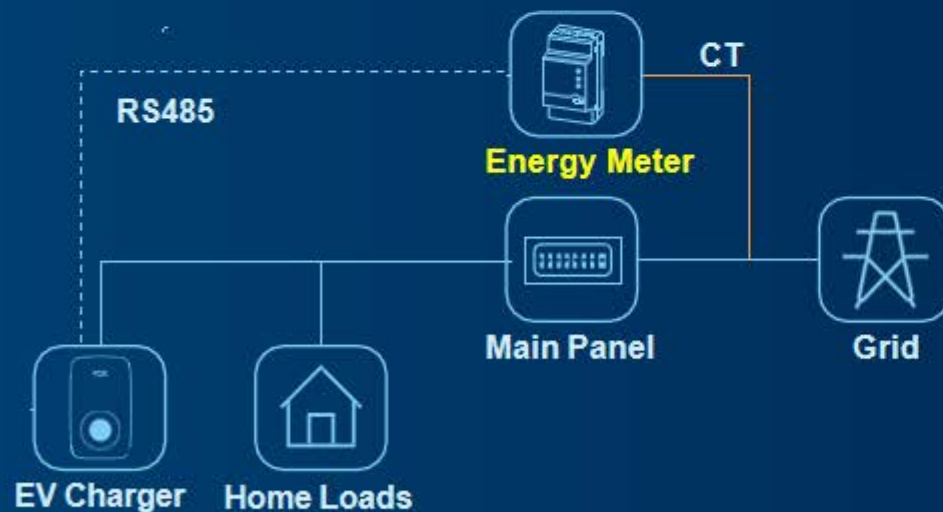
DLB is a smart solution that allows you to safely balance the power consumption between your electric vehicle and your other electrical home appliances. This ensures that the network is not overloaded

Priority: electrical home appliances

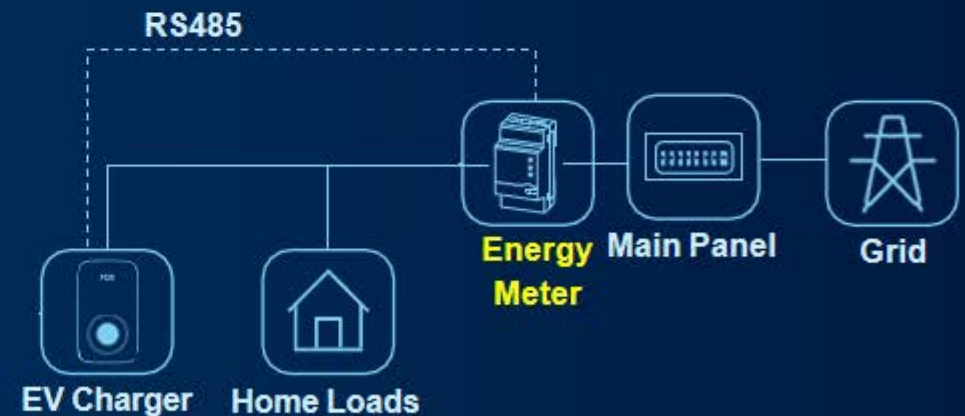
Then: others power for charging system.

In Short : Total power minus power of electrical home appliances equals charging system

The best way to avoid exceeding the power capacity is by using Dynamic Load Balancing.



Three phase home
380V 32A



Single phase home
230V 63A

Solar Linkage Priority SOLUTION

There are three Work Modes designed for the Smart EVCharger:

GREEN mode

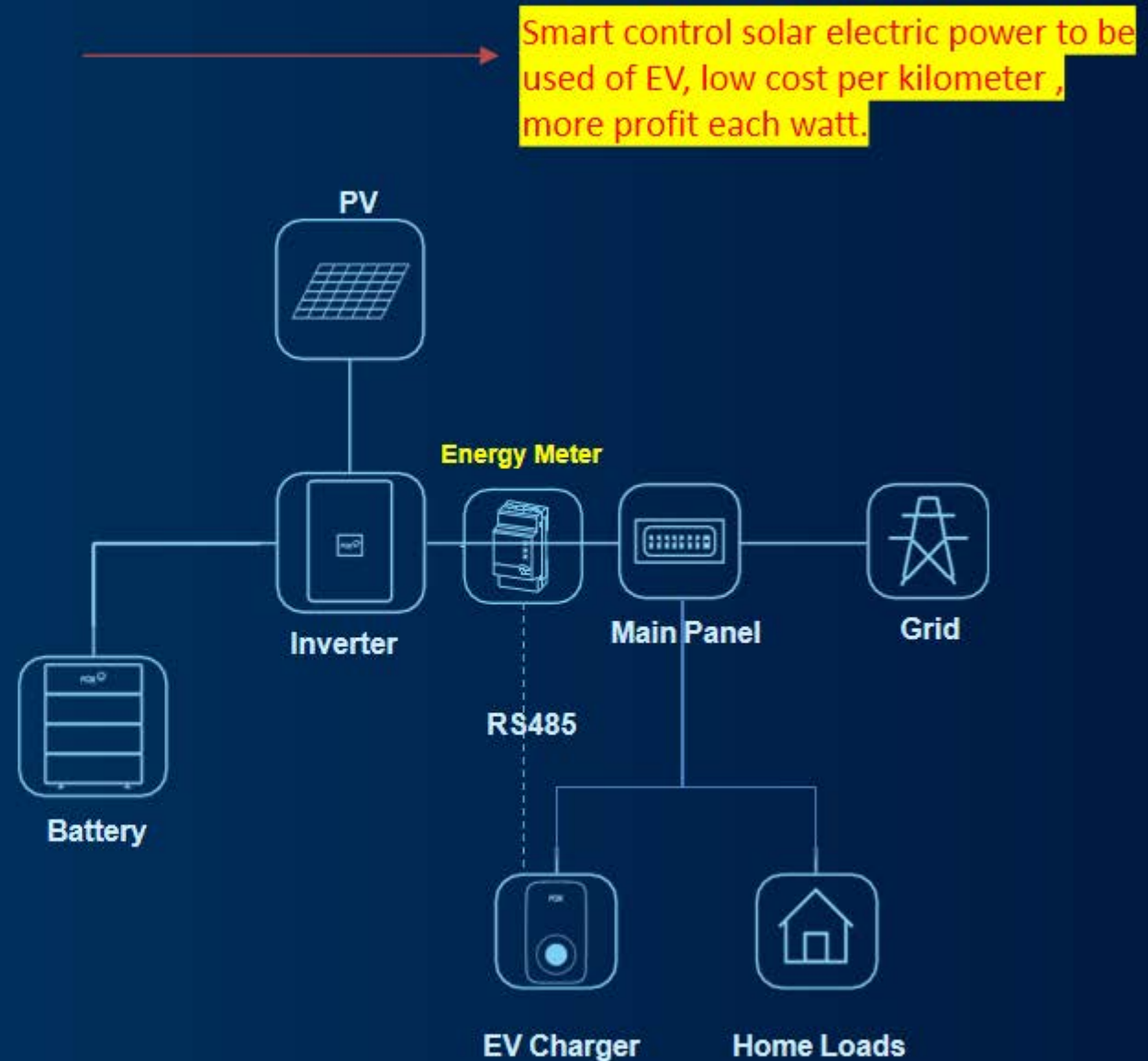
In the state of spontaneous self-use, the inverter gives priority to charging the battery, and the remaining energy is supplied to the EV charger.

ECO mode

In the state of spontaneous self-use, the inverter gives priority to power the EV charger and the battery can also power the EV charger.

FAST mode

When the inverter is not in the self-use state, the EV charger will charge at the set maximum current.



Phase-Aware Load Balancing Coming Soon

Keep the same power output for each phase, avoid phase overload (break off).

A great benefit of a phase-aware and a phase-shifted setup is when certain cars can only charge on phase 1 or phases 1+2, a system without phase-awareness would quickly fill up in capacity, a lot of capacity unused on phases 2 and 3

