
FOX
ESS
PRODUCT
Introduction
EV Charger

Contents


Life Simplified
Life Simplified

WHO
WE ARE

Founded in 2019, FoxESS is specialized in the R&D, production and sales of energy storage inverters, battery systems and EV charger, provides advanced distributed energy products, energy storage products , smart energy management solutions and excellent electric vehicle charging solution for residential, industrial and commercial enterprises.

RESEARCH & DEVELOPMENT

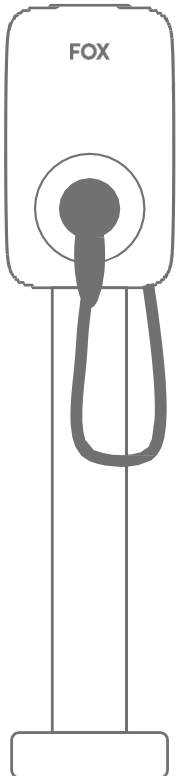
The core of FoxESS is a number of advanced R&D centers located in Wenzhou, Shanghai, Wuxi and Wuhan. In these R&D centers, hundreds of engineers and technicians are tirelessly improving the products to ensure that FoxESS photovoltaic inverter, energy storage system, EV charger and other products always keep the leading position.

The R&D team of FoxESS is mainly composed of experts in inverter, energy storage and EV charger technology, including a variety of senior technical experts with rich experience in well-known enterprises of the industry.

THE PRODUCTS
QUALITY
IS PRICELESS

FoxESS EV charger are precision engineered to provide high performance, efficiency, reliabilty;
and we source our components from the leading manufacturers.

FoxESS EV charger incorporate a unique production process and quality control ensure product stability and long life.



FoxESS China

Fox Wuxi R&D Center
Wuxi

Fox Shanghai R&D Center
Shanghai

Fox Wuhan R&D Center
Wuhan

Fox Wenzhou Factory
110,000 square meters
11Gw capacity
Wenzhou

More than 2200 employees

EV CHARGER

- **A7300 SERIES**
- **A011K SERIES**
- **A022K SERIES**

Small, Smart, Simply, Safety, Suitable

A4 Paper size, Charging current with load balancing，

Plug-in connector , Nine protections, 99% EV models

A7300 SERIES

7.3kW

- Power: 7.3kW
- Output Current: Max.32A
- Output Voltage: 230V AC
- Type 2 cable charging connector
- Compliant with OCPP 1.6 (JSON) (G2)
- App operation or RFID authentication or plug&play
- Protection Grade: IP65
- -25 ~50℃ wide Operating Temperature

ENERGY SAVBING | INNOVATIVENESS DESIGN | SMART CONTROL | SIMPLE OPERATION | SECURE AND SAFE

A7300 SERIES

TECHNICAL SPECIFICATIONS

7.3kW

MODEL	A7300P1-E	A7300S1-E
TYPE	CHARGING PLUG	CHARGING SOCKET
INPUT		
Wiring Scheme	1P+N+PE	
Voltage	230Vac，±20%	
Maximum Current	32A	
Frequency	50/60Hz	
OUTPUT		
Voltage	230Vac，±20%	
Maximum Current	32A	
Rated Power	7.3kW	
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	
Emergency Stop	Yes	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-25°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	
CERTIFICATE	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
WARRANTY	3 Years standard	
Warranty Extension	Optional	

A011K SERIES

11KW

- Power:11KW/ 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 RFIDauthentication or plug&play
- Protection Grade: IP65
- -25 ~50°C wide Operating Temperature

ENERGY SAVBING

INNOVATIVENESS DESIGN

SMART CONTROL

SIMPLE OPERATION

SECURE AND SAFE

A011K SERIES

TECHNICAL SPECIFICATIONS

11kW

MODEL	A011KP1-E-2	A011KS1-E-2
TYPE	CHARGING PLUG	CHARGING SOCKET
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	400Vac，±20%	
Maximum Current	16A	
Frequency	50/60Hz	
OUTPUT		
Voltage	400Vac，±20%	
Maximum Current	16A	
Rated Power	11kW	
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	
Emergency Stop	Yes	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G, Ethernet	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-25°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	
CERTIFICATE	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
WARRANTY	3 Years standard	
Warranty Extension	Optional	

A022K SERIES

122kW

- Power:11KW/ 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 RFIDauthentication or plug&play
- Protection Grade: IP65
- -25 ~50°C wide Operating Temperature

ENERGY SAVBING

INNOVATIVENESS DESIGN

SMART CONTROL

SIMPLE OPERATION

SECURE AND SAFE

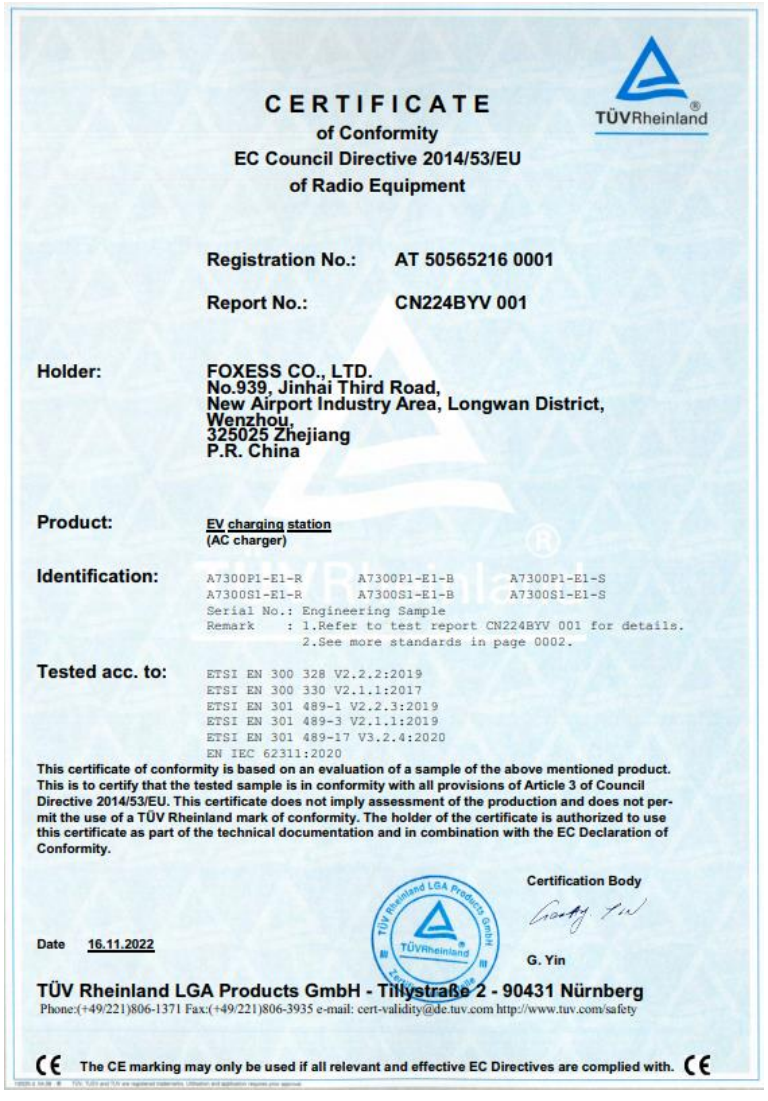
A022K SERIES

TECHNICAL SPECIFICATIONS

22kW

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	
Emergency Stop	Yes	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G, Ethernet	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-25°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	
CERTIFICATE	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
WARRANTY	3 Years standard	
Warranty Extension	Optional	

AC 7K TUV



CERTIFICATE

of Conformity
EC Council Directive 2014/53/EU
of Radio Equipment

TÜVRheinland

Registration No.: AT 50565216 0001

Report No.: CN224BYV 001

Holder: FOXESS CO., LTD.
No.939, Jinhai Third Road,
New Airport Industry Area, Longwan District,
Wenzhou,
325025 Zhejiang
P.R. China

Product: EV charging station
(AC charger)

Identification:
A7300P1-E1-R A7300P1-E1-B A7300P1-E1-S
A7300S1-E1-R A7300S1-E1-B A7300S1-E1-S
Serial No.: Engineering Sample
Remark : 1.Refer to test report CN224BYV 001 for details.
2.See more standards in page 0002.

Tested acc. to:
ETSI EN 300 328 V2.2.2:2019
ETSI EN 300 330 V2.1.1:2017
ETSI EN 301 489-1 V2.2.3:2019
ETSI EN 301 489-3 V2.1.1:2019
ETSI EN 301 489-17 V3.2.4:2020
EN IEC 62311:2020

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provisions of Article 3 of Council Directive 2014/53/EU. This certificate does not imply assessment of the production and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate as part of the technical documentation and in combination with the EC Declaration of Conformity.

Certification Body

Date 16.11.2022

G. Yin

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Phone:(+49/221)806-1371 Fax:(+49/221)806-3935 e-mail: cert-validity@de.tuv.com http://www.tuv.com/safety

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

AC 11K/22K TUV

CERTIFICATE

of Conformity
EC Council Directive 2014/53/EU
of Radio Equipment

TÜVRheinland

Registration No.: AT 50588755 0001

Report No.: CN23JPLX 001

Holder: FOXESS CO., LTD.
No.939, Jinhai Third Road,
New Airport Industry Area, Longwan District,
Wenzhou,
325025 Zhejiang
P.R. China

Product: Radio Equipment
(AC charger)

Identification:
A022KP1-E-2 A022KS1-E-2 A011KP1-E-2 A011KS1-E-2
Serial No.: Engineering Sample
Remark : 1.Refer to test report CN23JPLX 001 for details.
2.See more standards in page 0002.

Tested acc. to:
ETSI EN 301 489-1 V2.2.3:2019
ETSI EN 301 489-3 V2.3.2:2023
ETSI EN 301 489-17 V3.2.4:2020
ETSI EN 301 489-52 V1.2.1:2021
ETSI EN 301 511 V12.5.1:2017
ETSI EN 301 908-1 V15.1.1:2021
EN 301908-13 V 13.2.1:2022

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provisions of Article 3 of Council Directive 2014/53/EU. This certificate does not imply assessment of the production and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate as part of the technical documentation and in combination with the EC Declaration of Conformity.

Certification Body

Date 07.06.2023

Shawn Peng

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Phone:(+49/221)806-1371 Fax:(+49/221)806-3935 e-mail: cert-validity@de.tuv.com http://www.tuv.com/safety

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

Coming Soon

Dual output design
Space saving, dual charging

A022/044K SERIES

22kW/44kW

- Power: 22kW/44kW
- 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
- Static load balancing
- Protection Grade: IP65

-25 ~50°C wide Operating Temperature

ENERGY SAVBING | INNOVATIVENESS DESIGN | INTELLIGENT CONTROL | SIMPLE OPERATION | SECURE AND SAFE

A022K SERIES

TECHNICAL SPECIFICATIONS

22kW

MODEL	A022KP2-E	A022KS2-E
TYPE	DOUBLE CHARGING PLUG	DOUBLE CHARGING SOCKET
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	400Vac，±20%	
Maximum Current	32A	
Frequency	50/60Hz	
OUTPUT		
Voltage	400Vac，±20%	
Maximum Current	32A or 16A*2	
Rated Power	22kW or 11kW*2	
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	
Emergency Stop	Yes	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G, Ethernet	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-25°C ~ 50°C	
Operating Humidity	5% ~ 95% No condensation	
Operating Altitude	≤2000m	
DIMENSION AND WEIGHT		
Product Dimension	480*275*180 mm	
Product Weight	11.6kg	8kg
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	
CERTIFICATE	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
WARRANTY	3 Years standard	
Warranty Extension	Optional	

A044K SERIES

TECHNICAL SPECIFICATIONS

44kW

MODEL	A044KP2-E	A044KS2-E
TYPE	DOUBLE CHARGING PLUG	DOUBLE CHARGING SOCKET
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	400Vac，±20%	
Maximum Current	64A	
Frequency	50/60Hz	
OUTPUT		
Voltage	400Vac，±20%	
Maximum Current	32A *2	
Rated Power	22kW*2	
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	
Emergency Stop	Yes	
COMMUNICATION		
WiFi	Yes	
4G, Ethernet	Optional	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional	
ENVIRONMENT		
Installation	Wall-mount / Post-mount	
Operating Temperature	-25°C ~ 50°C	
Operating Humidity	5% ~ 95% No condensation	
Operating Altitude	≤2000m	
DIMENSION AND WEIGHT		
Product Dimension	480*315*180 mm	
Product Weight	16.6kg	13kg
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	
Certificate	CE	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
WARRANTY	3 Years standard	
Warranty Extension	Optional	

AC TYPE2 CHARGING CABLE

European Standard AC Type2 Double Plug Charging Cable is a reliable connection device used between electric vehicles and EV charger.

High strength ABS material, which has better quality and can be used for longer; IP65 waterproof could be safer during charging.

Thanks to the Silver plating on the standard J1772 inlet, our charger have better conductivity and could prevent overheating.

AC TYPE2 CHARGING CABLE

TECHNICAL SPECIFICATIONS

TYPE	MEAC-S-032A	MEAC-T-032A
CABLE		
Cable type	3 x 6 mm² + 1 x 0.75 mm²	5 x 6 mm² + 1 x 0.75 mm²
Cable length	5.0 m	
ELECTRICAL PARAMETERS		
Rated Voltage	250V	480V
Rated Current	32A	
Insulation resistance	≥100MΩ 500V DC	
Withstandvoltage	L、N and PE >2500V AC L and N >2500V AC	
MECHANICAL PARAMETERS		
Mated cycles	≥10000	
Mated force	< 100N	
ENVIRONMENTAL PARAMETERS		
Operate Temperature	-30°C ~ 55°C	
Ingress Protection	IP54	
Flame Rating	UL94-V0	
STANDARD		
Certification	CE/TUV	

POST OF EV CHARGER

- Base：200*150 m m
- Main part：60*120*1600 m m

THICKENED MATERIAL

WATERPROOF AND RUST-PROOF

SIMPLE INSTALLATION

ROBUST AND DURABLE

ENERGY METER

DDSU666

SINGLE PHASE
ELECTRONIC ENERGY METER

DTSU666

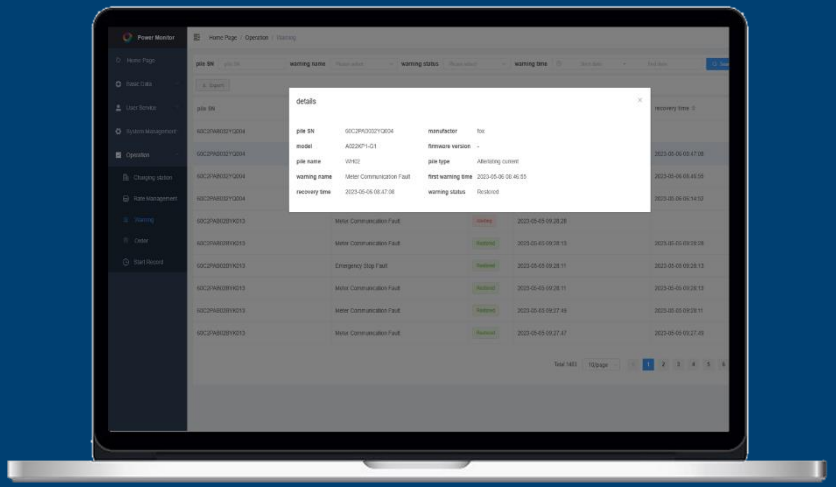
THREE PHASE
ELECTRONIC ENERGY METER

NAME	SINGLE PHASE	THREE PHASE
MODEL	DDSU666	DTSU666
Rated voltage [V]	220	380
Rated current [A]	5(60)/5(80)	5(80)
Temperature [°C]	-25 ~ +55	
Display mode	Segment code LCD	
Expertise rating	Level 1	
Installation method	Distribution box type/rail type	

- Overall Flame Retardant
- Easy Installation
- Small Size
- High Accuracy

EXTREMELY EASY TO INSTALL

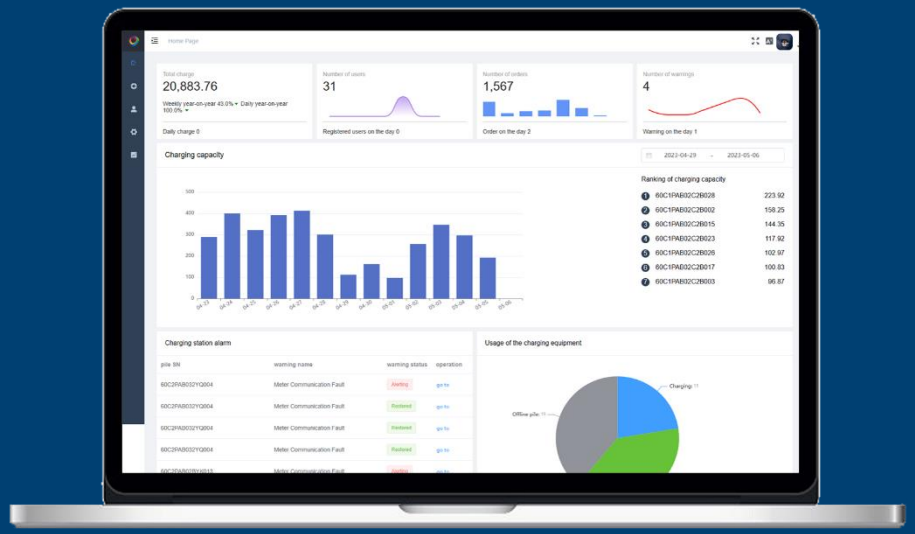
The installation process is fast and easy.
we design the EVcharger for easy installation, which can be completed in a few simple steps.



EXTREMELY EASY TO REMOTE DIAGNOSIS AND MAINTENANCE

User can read and check the EV charger's fault info by the management system without onsite.

Intelligent, Simply, Faster, Efficient.



MANAGEMENT SYSTEM

The management system is designed for operators to manage the EV charger 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.

FoxSwitch APP

01

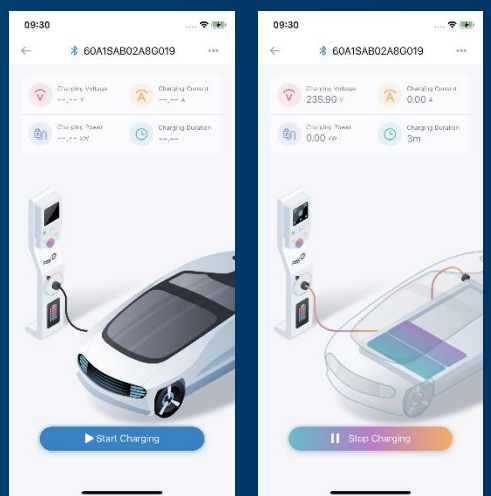
Cnotrol your charger with FoxSwitch app，Find the FoxSwitch APP on the Apple stores & Google Play stores.

Download on the App Store

GET IT ON Google Play

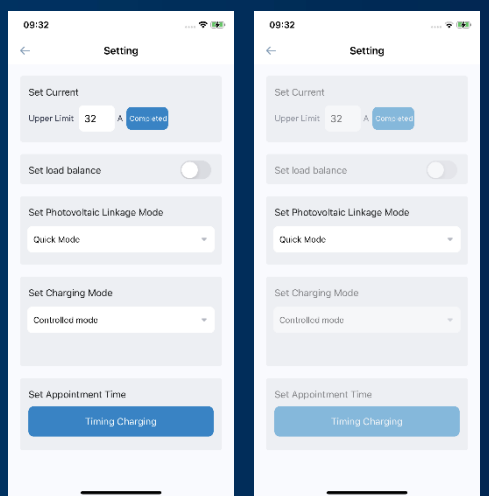
02

Start or stop charging，Monitor the status of your charger and control it remotely on the go，View your statistics in realtime.



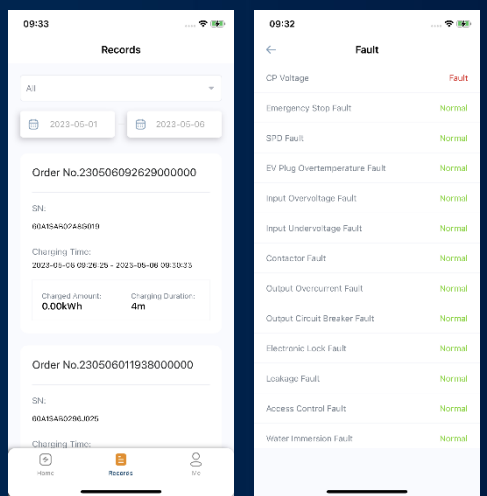
03

Schedule charging when the electric power is economical, your charger to protect it from unwanted use.



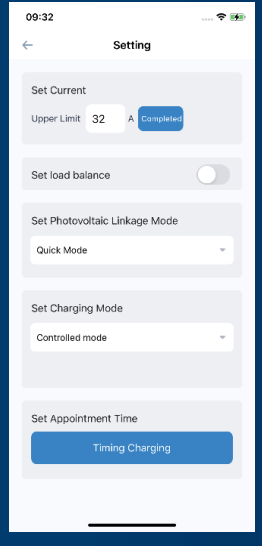
04

Update firmware remotely
Query fault and charging order

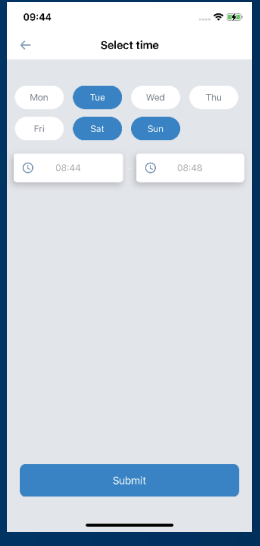


FoxSwitch
SMART CONTROL

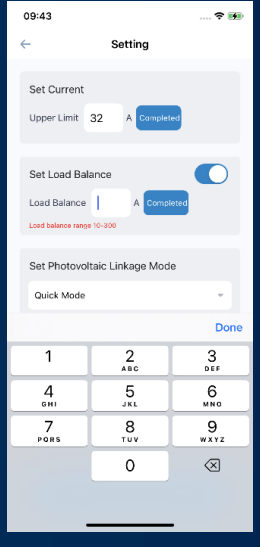
01
CHARGER CONTROL SET UP



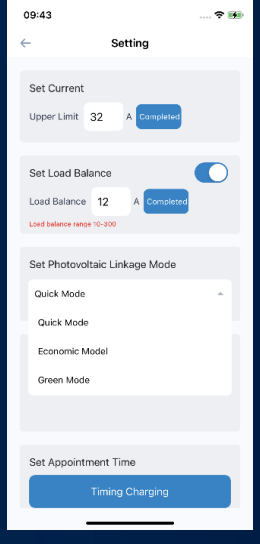
02
CHARGING TIME SET UP



03
LOAD BALANCING SET UP



04
SOLAR MODE STET UP



Dynamic Load Balance SOLUTION(APP Setup)

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

DLB for Residential charging system

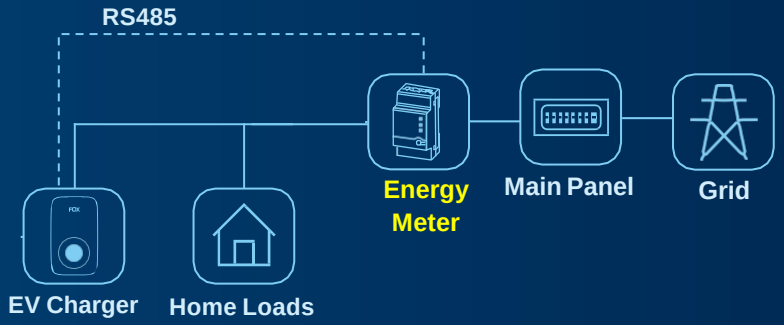
DLB is a smart solution that allows you to safely balance the power consumption between your electric vehicle and your other electrical home appliances. This ensures that the network is not overloaded

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.



Single phase
230V 63A

Three phase
380V 32A

Static Load Balance SOLUTION

Adjustable the Max charging current
Avoid Charging Station Power Overload

SLB for **Public** **charging system**

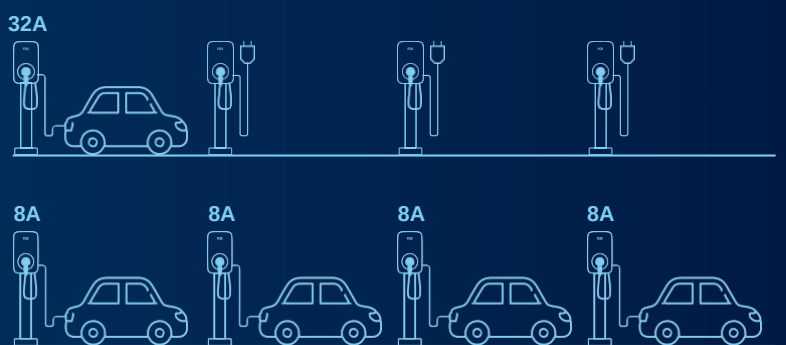
SLB is a feature available on charging stations to distribute the available power to all connected chargers and other loads. Every electric vehicle can charge optimally and it prevents charging stations consume too much current or exceed the maximum available power of the parking facility.

Fixed: the setup power out of charging

In Short: total power divide output using quantities equals each output power (EV charger is single outlput)

Static Load Balancing (SLB) relies on a predefined, static, site power allocation. It does take into account changes to prevent overloads.

Dual Outlets charger
Self-SLB



Total Output power is divide
with using quantities

Solar Linkage Priority

SOLUTION

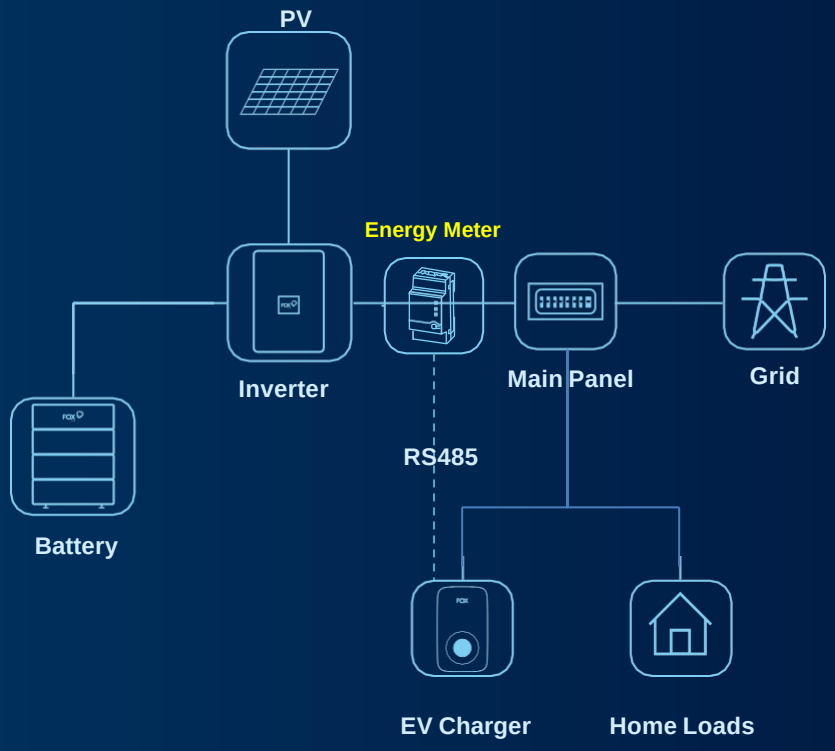
There are three Work Modes designed for the Smart EV Charger:

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.

Smart control solar electric power to be used of EV, low cost per kilometer , more profit each watt.

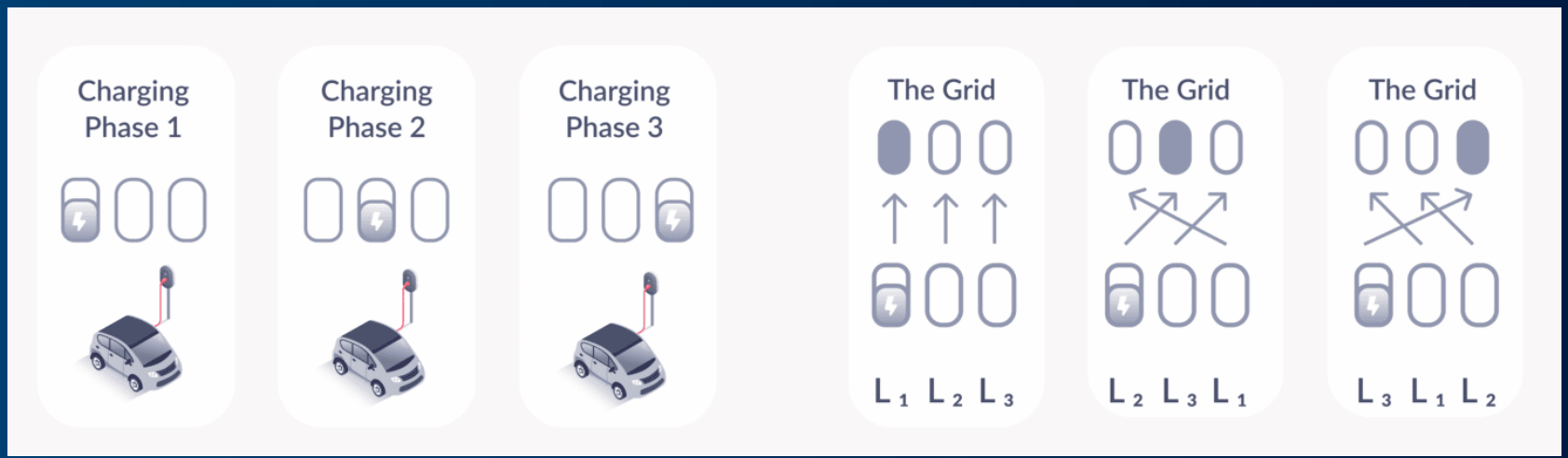


Phase-Aware Load Balancing

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



EV OPERATING PLATFORM

FoxEss EVcharger OCPP1.6 connect with the third party who is EV charging management platform, such as Monta, E-flux, beagleplug etc.

MONTA — BUESINESS COVER EU/AU/IN/MEMA

E-Flux — BUESINESS COVER EURO INCLUDE UK

beagleplug® — BUSINESS COVER ITALY

TYPE 2 CHARGING SOCKET WITH SHUTTER

TYPE 2 CHARGING SOCKET WITH SHUTTER is based on the proven charging socket type 2 with an additional shutter module, with additional protection against contact of electrical parts.

Italy

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