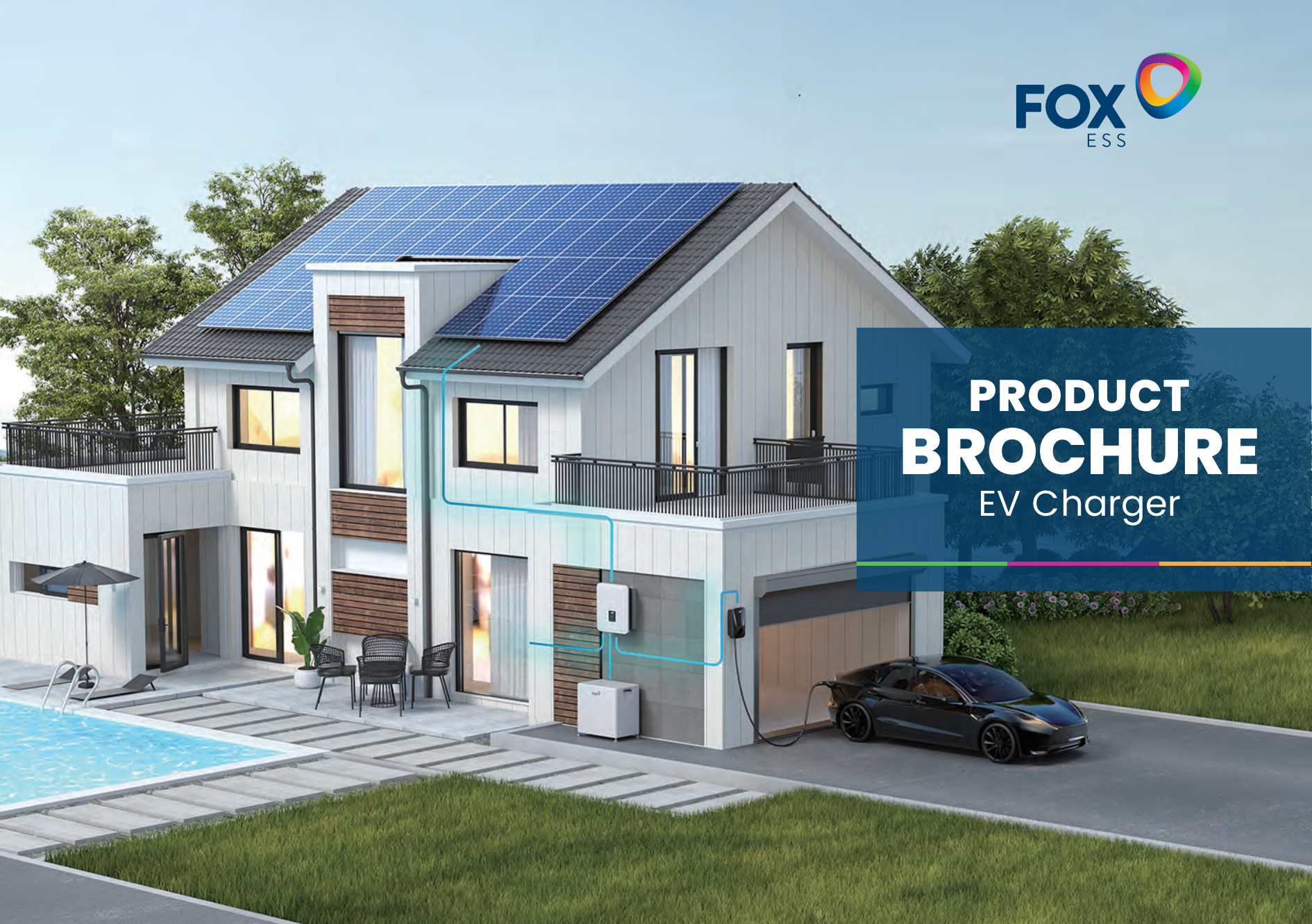


FOX ESS

PRODUCT BROCHURE

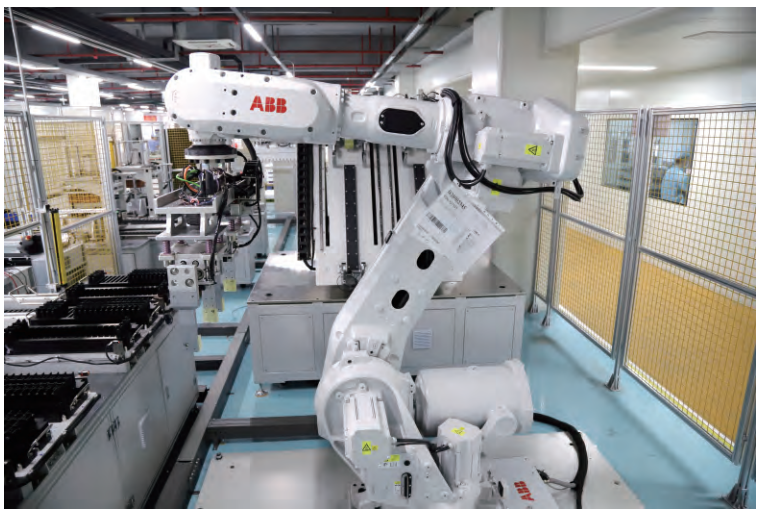
EV Charger

Contents


PLUG VERSION
SOCKET VERSION
Life Simplified
Life Simplified

WHO
WE ARE

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



RESEARCH & DEVELOPMENT

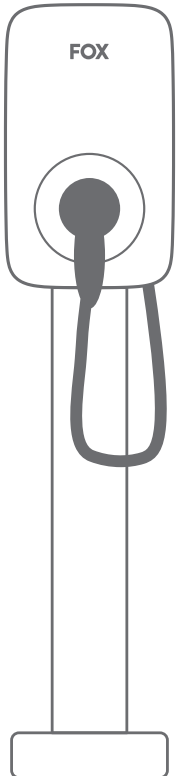
The core of Fox ESS is a number of advanced R&D centers located in Wenzhou, Shanghai, Wuxi and Wuhan. In these R&D centers, hundreds of engineers and technicians are tirelessly improving the products to ensure that Fox ESS photovoltaic inverter, energy storage system, EV charger and other products always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

The R&D team of Fox ESS 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

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

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



GLOBAL MARKETS

Fox Around The World

EV CHARGER

- A7300 SERIES
- A011K SERIES
- A022K SERIES
- AT022 SERIES

Small, smart and simple to use

The Fox ESS EV charger is a versatile AC charger meant for homes, businesses, and charge point operators. It comes in 7kW 11kW and 22kW.

The Fox ESS EV charger creates smart charging systems that combine innovative technology with outstanding design.

CERTIFICATION

CERTIFICATE

of Conformity

Radio Equipment Regulations 2017

(UK SI 2017 No. 1206)

Page 1 of 1

Registration Nr.: AW 50668403 0001
Report Nr.: CN22Z9MF 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)

Test standard:
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
EN IEC 61851-21-2:2021
EN IEC 61000-6-1:2019
EN IEC 61000-6-2:2019
EN IEC 61000-6-3:2021
EN IEC 61000-6-4:2019
BS EN IEC 61851-1:2019

Identification: A7300P1-E1-R A7300P1-E1-B A7300P1-E1-S
A7300S1-E1-R A7300S1-E1-B A7300S1-E1-S

This certificate of conformity is based on an evaluation of a sample of the above mentioned product, technical report and documentation. This certificate does not imply the assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date: 2023-01-19

G. Yin

UK CA

TUV Rheinland UK Ltd.

www.tuv.com

TÜVRheinland®
Precisely Right.

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: A022EV1-E-2 A022ES1-E-2 A011ES1-E-2 A011ES1-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

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)/2.0
- App operation or RFID authentication or plug, play & 4G
- Protection Grade: IP55
- -30 ~ 50°C wide Operating Temperature
- Warranty time: 3 years

PV ENERGY DIRECTING

A4 SIZE DESIGN

SMART CONTROL

FLEXIBLE INSTALLATION

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	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	Optional（coming soon）	
OCPP	OCPP 1.6 JSON, OCPP 2.0 optional（coming soon）	
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	IP55	
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	

A011K SERIES

11kW

- Power: 11kW
- Output Current: Max.16A
- 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: IP55
- -30 ~ 50℃ wide Operating Temperature
- Warranty time: 3 years

PV ENERGY DIRECTING

A4 SIZE DESIGN

SMART CONTROL

FLEXIBLE INSTALLATION

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	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	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	IP55	
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	

A022K SERIES

22kW

- 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: IP55
- -30 ~ 50℃ wide Operating Temperature
- Warranty time: 3 years

PV ENERGY DIRECTING

A4 SIZE DESIGN

SMART CONTROL

FLEXIBLE INSTALLATION

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	
COMMUNICATION		
WiFi, Bluetooth	Yes	
4G	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	IP55	
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	

Dual output design
Space saving, dual charging

AT022 SERIES

22kW

- Power: 22kW or 11kW*2
- Output Current: Max.32A or 16A*2
- 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: IP55
- -30 ~ 50°C wide Operating Temperature
- Warranty time: 3 years

PV ENERGY DIRECTING | SINGLE & DOUBLE COMPATIBLE DESIGN | SMART CONTROL | FLEXIBLE INSTALLATION | SECURE AND SAFE

AT022 SERIES

TECHNICAL SPECIFICATIONS

22kW

MODEL	AT022-DP	AT022-DS
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 or 16A	
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	
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	500*350*155 mm	
Product Weight	18kg	14kg
SAFETY		
IP protection rating	IP55	
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	

AC TYPE2 CHARGING CABLE

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

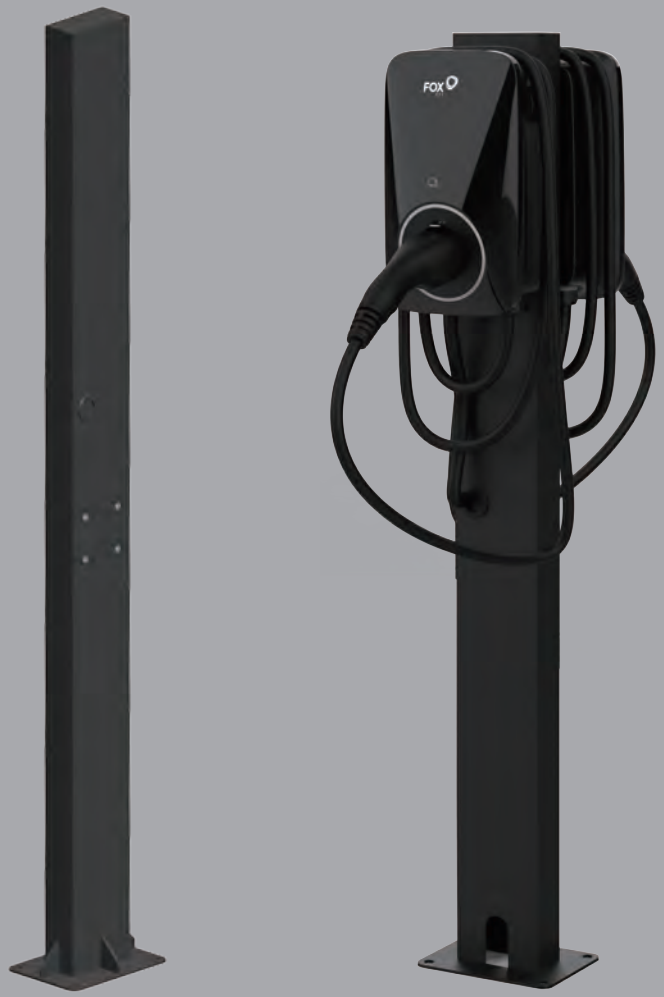
High strength ABS material, which has better quality and can be used for longer; IP55 waterproof could be safer during charging.

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 mm
- Main part：60*120*1200 mm

THICKENED MATERIAL

WATERPROOF AND RUST-PROOF

SIMPLE INSTALLATION

ROBUST AND DURABLE

EXTREMELY EASY TO INSTALL

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

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 APP & Google Play stores.

Download on the App Store

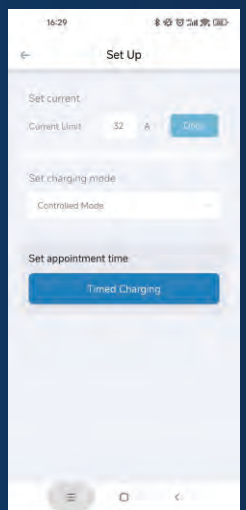
GET IT ON Google Play

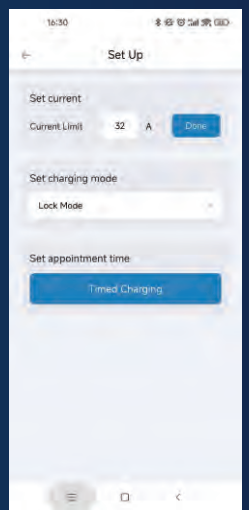
02

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

03

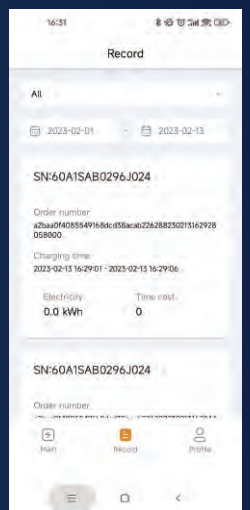
Schedule charging when the power is cheapest，Lock your charger to protect it from unwanted use.

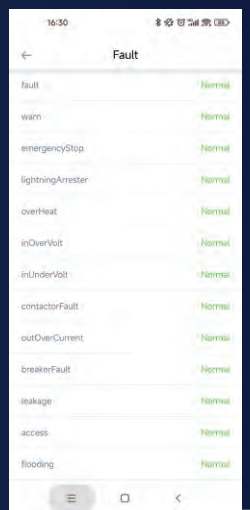




04

Update firmware remotely
Query fault and charging order.

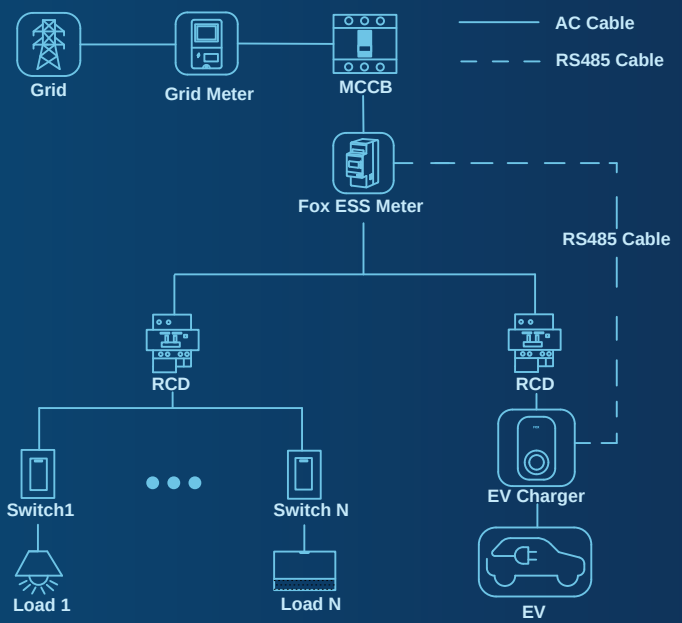




LOAD BALANCE SOLUTION

Dynamic Load Balance

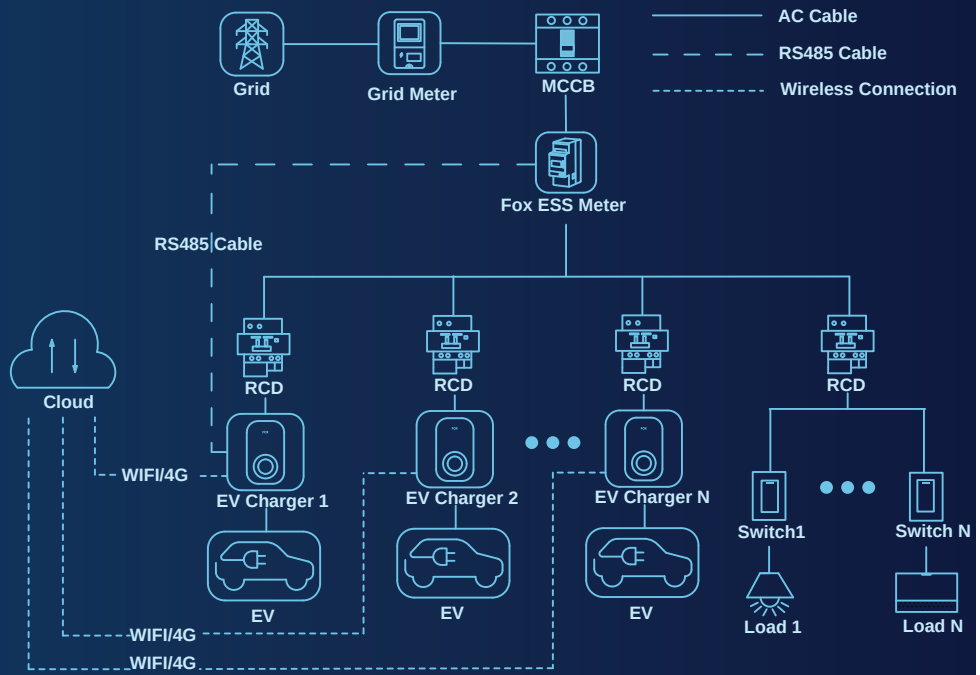
When the power consumption exceeds the limit, the charger's current is restricted to protect house load. The EV charger can be charge regularly according to the low electricity price.



Static load balancing

It can balance the total available power distribution of multiple chargers at a specific time.

Used to manage multiple chargers in the system.



FOX ESS SOLAR EV CHARGING SOLUTION

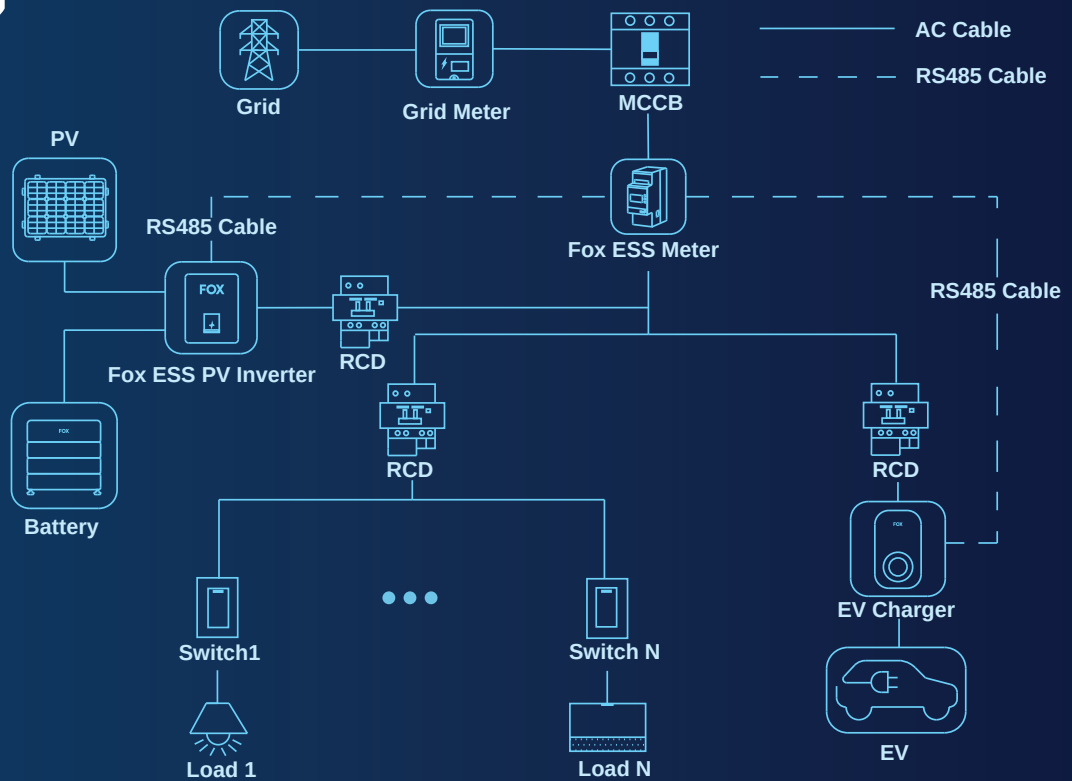
Solar linkage

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, the EV charger will charge at the set maximum current.



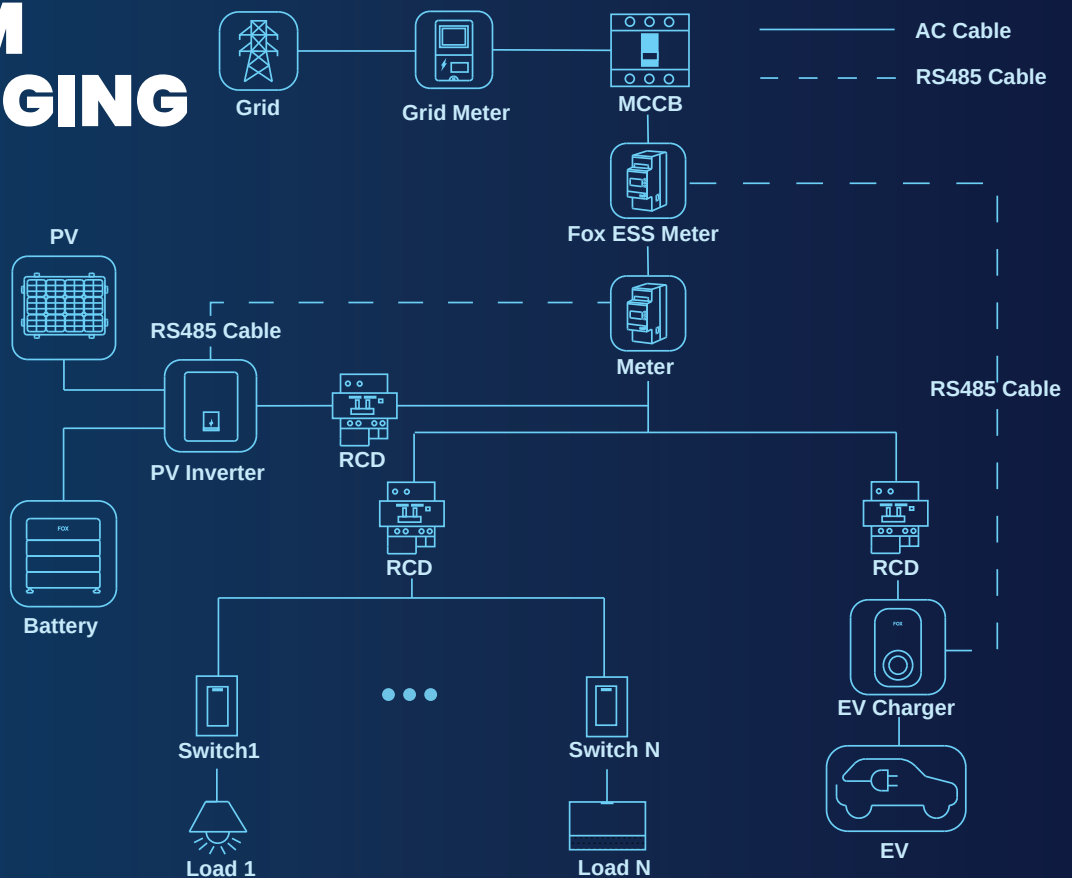
NONE FOX ESS ENERGY SYSTEM SOLAR EV CHARGING SOLUTION

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, **grid 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.



EV BILLING

Our scalable EV charging billing system has been designed specifically for EV charging networks to address every aspect of your billing operations.

- Multiple EV billing tariffs and plans are supported, including pre-paid, post-paid, etc.
- Real-time rating
- Dynamic and static cost factoring
- Supports extensive business models, including OEM, Host, etc.
- Allows complex reconciliation between partners in the ecosystem
- Support for multiple currencies
- Flexible tax management
- Integration with multiple payment gateways
- Reporting and dashboards

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.

FOX ESS
PROJECT PICTURES

München, Germany


NR K 1147
UN PD 4501
19
20


4

Wenzhou, China

Site Picture

Site Picture

Site Picture

Site Picture

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www.fox-ess.com
ev@fox-ess.com