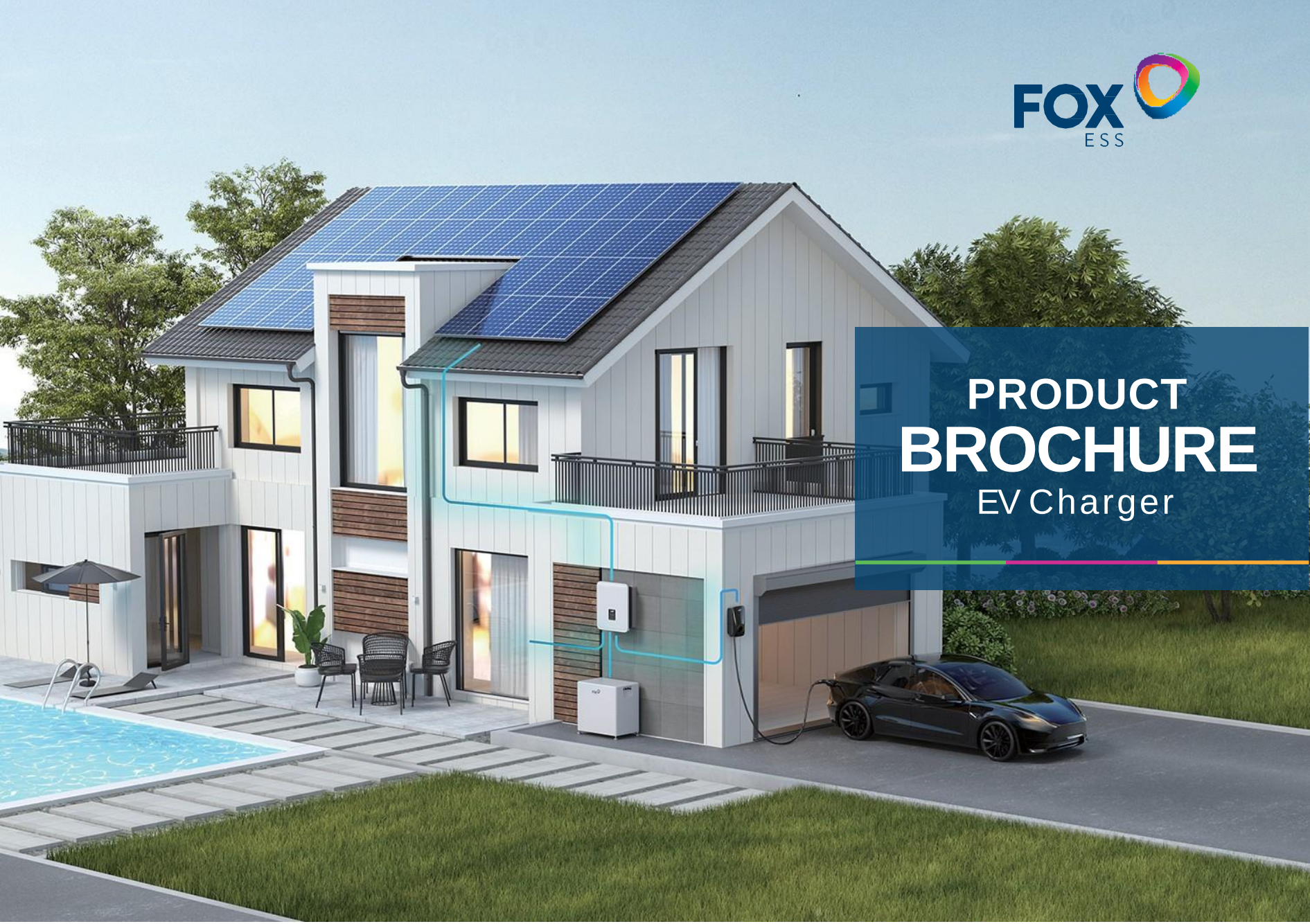


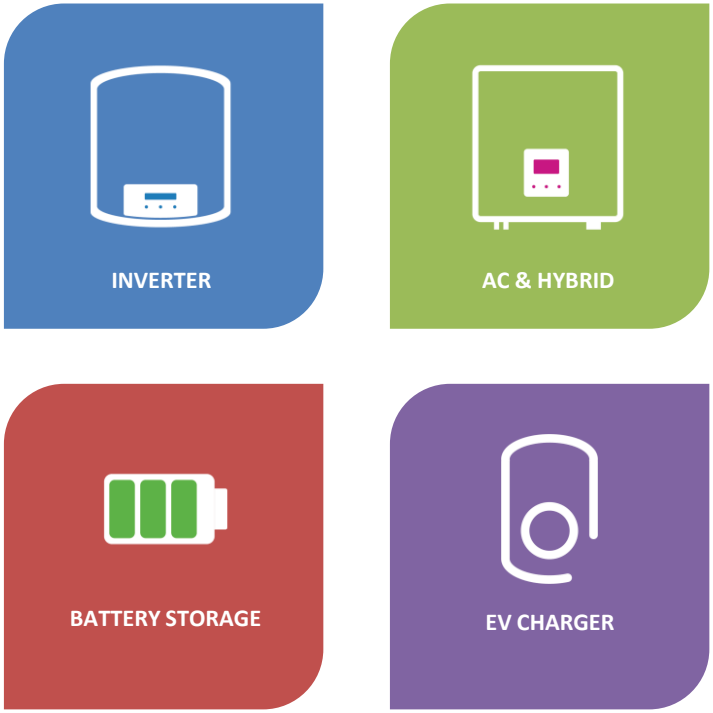
FOX ESS

PRODUCT BROCHURE

EV Charger

ABOUT FOX

Fox ESS was established in 2019, and through its world leading team of engineers and technicians is leading the way in the fields of power technology research and development, energy storage equipment manufacturing, IT data services, and new energy project development. The company focuses on providing advanced distributed energy, energy storage products and smart energy management solutions for households and industrial / commercial enterprises.



Employee Status

Total Employees
2715

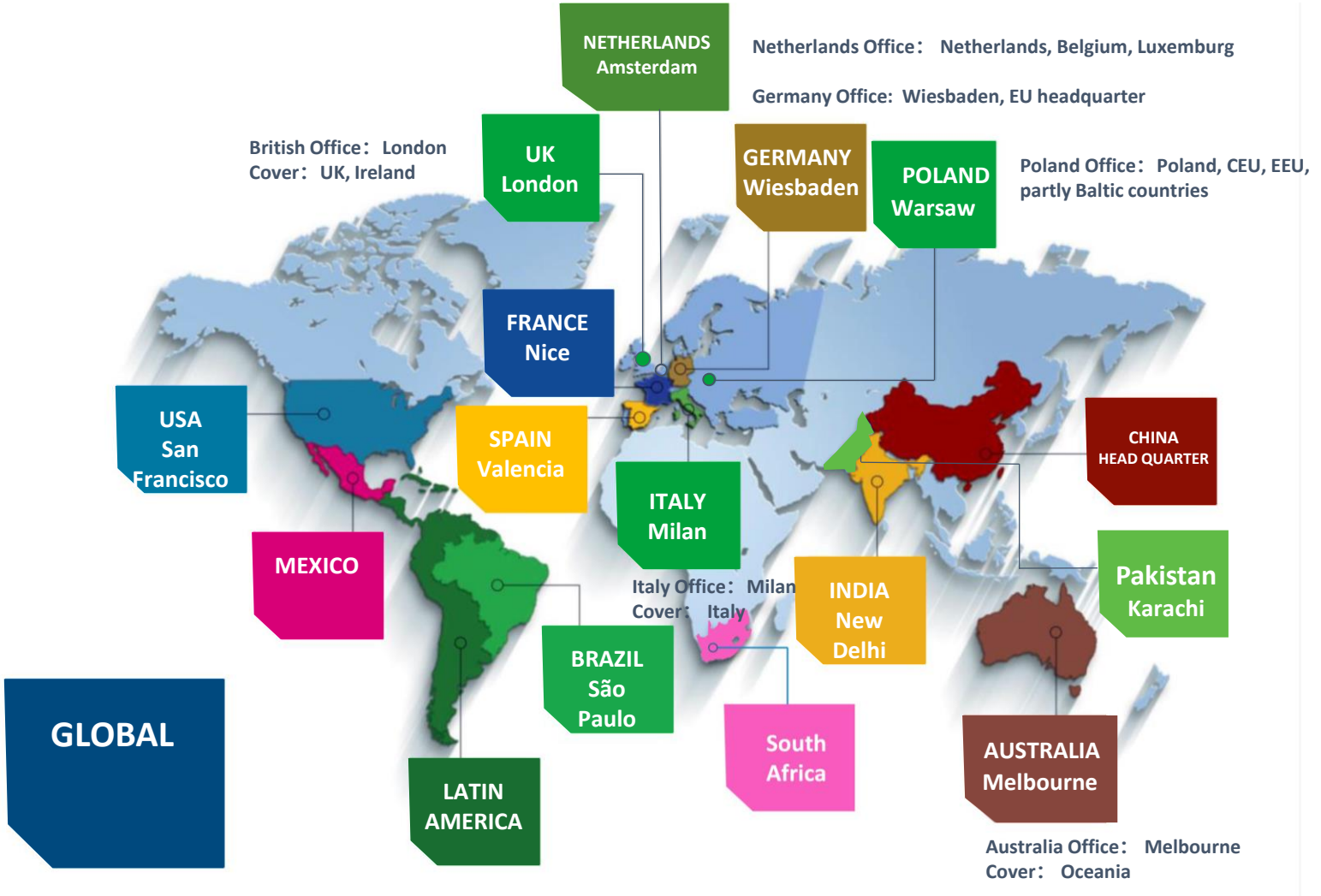
Marketing & Sales Team
9%

Others
10%

16%
R&D Team

65%
Production Team

Global Market



EU STANDARD AC EV CHARGER

Plug Version

- **A7300 SERIES Single-phase**
- **A011K SERIES Three-phase**
- **A022K SERIES Three-phase**

Socket Version

Durability
IP55 and IK08 protection

OCPP-compliant
OCPP1.6J or OCPP2.0.1

Dynamic load balance
Dynamic adjustment of charging power

Scheduled time charging
Set the charging time as you wish

Solar linkage
PV power can be used direct

Multiple connectivity options
Bluetooth,WiFi,4G,Ethernet

CE CERTIFICATION

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

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

TÜVRheinland

Registration No.: AT 50615922 0001

Report No.: CN23JPLX 009

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:
A011KP1-E-A A011KS1-E-A A022KP1-E-A A022KS1-E-A
Serial No.: Engineering Sample
Remark : 1.Refer to test report CN23JPLX 009 for details.
2.See more standards in page 0002.

Tested acc. to:
EN 301489-1 V 2.2.3:2019
EN 301489-3 V2.3.2:2023
EN 301489-17 V 3.2.4:2020
EN 301489-52 V 1.2.1:2021
EN 301511 V 12.5.1:2017
EN 301908-1 V 15.1.1:2021
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 05.02.2024

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

UKCA CERTIFICATION

CERTIFICATE

Page 1 of 1

of Conformity
Radio Equipment Regulations 2017
(UK SI 2017 No. 1206)

Registration Nr.: AW 50602700 0001
Report Nr.: CN23JPLX 007

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)*

Test standard:
EN 301489-1 V 2.2.3:2019
EN 301489-3 V2.3.2:2023
EN 301489-17 V 3.2.4:2020
EN 301489-52 V 1.2.1:2021
EN 301511 V 12.5.1:2017
EN 301908-1 V 15.1.1:2021
EN 301908-13 V 13.2.1:2022
EN 300328 V 2.2.2:2019
EN 300330 V 2.1.1:2017
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: A7300S1-E-2 A7300P1-E-2

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: 2023-11-03

Shawn Peng

UK CA The UKCA mark may be used, if all relevant UK Legislations and the UK Declaration of Conformity has been completed. UK CA

TUV Rheinland UK Ltd.
Friars Gate (Third Floor), 1011 Stratford Road, Shirley, Solihull, B90 4BN

CERTIFICATE

Page 1 of 1

of Conformity
Radio Equipment Regulations 2017
(UK SI 2017 No. 1206)

Registration Nr.: AW 50619290 0001
Report Nr.: CN23JPLX 009

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)*

Test standard:
EN 301489-1 V 2.2.3:2019
EN 301489-3 V2.3.2:2023
EN 301489-17 V 3.2.4:2020
EN 301489-52 V 1.2.1:2021
EN 301511 V 12.5.1:2017
EN 301908-1 V 15.1.1:2021
EN 301908-13 V 13.2.1:2022
EN 300328 V 2.2.2:2019
EN 300330 V 2.1.1:2017
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: A011KP1-E-A A011KS1-E-A A022KP1-E-A
A022KS1-E-A

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: 2024-02-05

Shawn Peng

UK CA The UKCA mark may be used, if all relevant UK Legislations and the UK Declaration of Conformity has been completed. UK CA

TUV Rheinland UK Ltd.

L SERIES

7/11kW

- Power: 7kW or 11kW
- Output Current: Max.32A or 16A
- Output Voltage: 230V AC
- Type 2 cable charging connector
- App operation or Plug&Play
- Protection Grade: IP55
- -30 ~ 50° C wide Operating Temperature
- Warranty time: 3 years

PVENERGY DIRECTING

SINGLE & DOUBLE COMPATIBLE DESIGN

SMART CONTROL

FLEXIBLE INSTALLATION

SECURE AND SAFE

L Series

TECHNICAL SPECIFICATIONS

7KW, 11KW

MODEL	L07PC	L11PC
TYPE	PLUG	PLUG
INPUT		
Wiring Scheme	3P+N+PE	
Voltage	230Vac±20%	400Vac±20%
Maximum Current	32A	16A
Frequency	50/60Hz	
OUTPUT		
Voltage	230Vac±20%	400Vac，±20%
Maximum Current	32A	16A
Rated Power	7kW	11kW
USER INTERFACE & CONTROL		
Connector Type	Type 2 cable	Type 2 cable
RFID Reader	Optional	
Start Mode	Plug&Play/RFID card/App	
COMMUNICATION		
WiFi, Bluetooth	Yes	
OCPP	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	197*196*105 mm	
Product Weight	3.7kg	3.7kg
SAFETY		
IP protection	IP55	
IK protection	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 EN/IEC 61000-6-1/2/4: 2019 EN/IEC 61000-6-3:2021 EN/IEC 62311: 2020	

Plug VERSION

E1/E-2/E-A/E-B

7.3kW, 11kW, 22kW

- Power: 7.3kW, 11kW, 22kW
- Output Current: Max.32A
- Output Voltage: 230V /380VAC
- Type 2 cable charging connector
- Compliant with OCPP 1.6 (JSON)/2.0
- APP operation or RFID authentication or Plug&Play
- 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

Plug version

TECHNICAL SPECIFICATIONS

7.3kW,
11kW, 22kW

MODEL	A7300P1-E	A011P1-E	A022P1-E
TYPE	CHARGING Plug/Cable		
INPUT			
Wiring Scheme	1P+N+PE	3P+N+PE	3P+N+PE
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Frequency	50/60Hz		
OUTPUT			
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Rated Power	7.3k	11kW	22kW
USER INTERFACE & CONTROL			
Connector Type	Type 2 cable		
RFID Reader	Mifare ISO/IEC 14443 A		
Start Mode	Plug&Play/RFID card/App		
COMMUNICATION			
WiFi, Bluetooth	Yes		
4G/Lan	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		
Product Weight	5.6kg		
SAFETY			
IP protection	IP55		
IK protection	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 EN/IEC 61000-6-1/2/4: 2019 EN/IEC 61000-6-3:2021 EN/IEC 62311: 2020		

FOX ESS

Socket VERSION

E1/E-2/E-A/E-B

7.3kW, 11kW, 22kW

- Power: 7.3kW, 11kW, 22kW
- Output Current: Max.32A
- Output Voltage: 230V /380VAC
- Type 2 charging connector
- Compliant with OCPP 1.6 (JSON)/2.0
- APP operation or RFID authentication or Plug&Play
- 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

Socket version

TECHNICAL SPECIFICATIONS

7KW, 11KW, 22kW

MODEL	A7300S1-E	A011S1-E	A022S1-E
TYPE		CHARGING Socket	
INPUT			
Wiring Scheme	1P+N+PE	3P+N+PE	3P+N+PE
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Frequency		50/60Hz	
OUTPUT			
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Rated Power	7.3k	11kW	22kW
USER INTERFACE & CONTROL			
Connector Type		Type 2 socket	
RFID Reader		Mifare ISO/IEC 14443 A	
Start Mode		Plug&Play/RFID card/App	
COMMUNICATION			
WiFi, Bluetooth		Yes	
4G/Lan		Optional	
OCPP		OCPP 1.6 JSON, OCPP 2.0.1 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*145 mm	
Product Weight		2.4kg	
SAFETY			
IP protection		IP55	
IK protection		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 EN/IEC 61000-6-1/2/4: 2019 EN/IEC 61000-6-3:2021 EN/IEC 62311: 2020	

Shutter VERSION

E-2/E-A/E-B

7.3kW, 11kW, 22kW

- Power: 7.3kW, 11kW, 22kW
- Output Current: Max.32A
- Output Voltage: 230V /380VAC
- Type 2S charging connector
- Compliant with OCPP 1.6 (JSON)/2.0
- APP operation or RFID authentication or Plug&Play
- 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

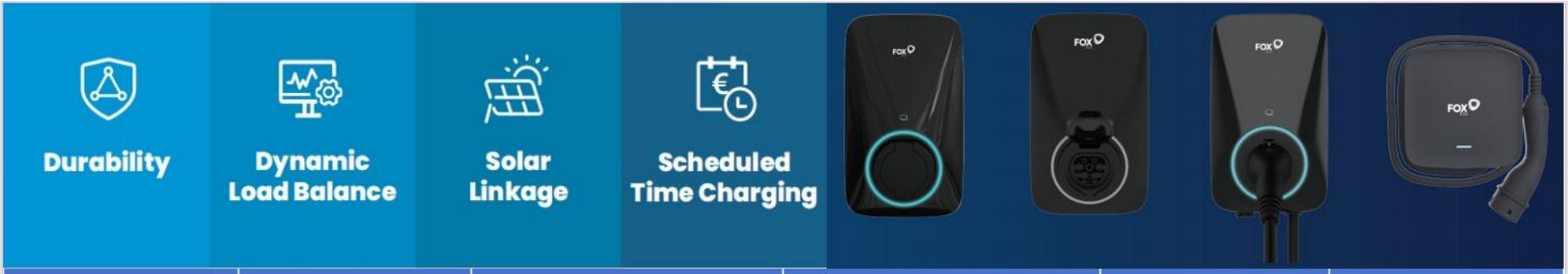
Shutter version

TECHNICAL SPECIFICATIONS

7KW, 11KW, 22kW

MODEL	A7300S1-E	A011S1-E	A022S1-E
TYPE		CHARGING Shutter	
INPUT			
Wiring Scheme	1P+N+PE	3P+N+PE	3P+N+PE
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Frequency		50/60Hz	
OUTPUT			
Voltage	230Vac，±20%	400Vac，±20%	400Vac，±20%
Maximum Current	32A	16A	32A
Rated Power	7.3k	11kW	22kW
USER INTERFACE & CONTROL			
Connector Type		Type 2 shutter	
RFID Reader		Mifare ISO/IEC 14443 A	
Start Mode		Plug&Play/RFID card/App	
COMMUNICATION			
WiFi, Bluetooth		Yes	
4G/Lan		Optional	
OCPP		OCPP 1.6 JSON, OCPP 2.0.1 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*145 mm	
Product Weight		2.4kg	
SAFETY			
IP protection		IP55	
IK protection		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 EN/IEC 61000-6-1/2/4: 2019 EN/IEC 61000-6-3:2021 EN/IEC 62311: 2020	

Summary of the EV charger's Descriptions

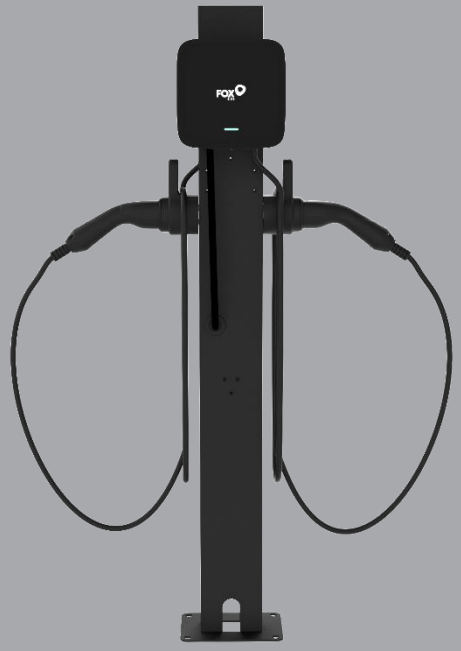


Items	A7300	A011K	A022K	L07	L011
Product features	Space-saving and easy-to-install design Bottom entry			Space-saving and easy-to-install design Bottom entry Back entry Compatible	
Application scenarios	Residential and Semi-Commercial			Residential	
Installation method	Wall-mount / Post-mount			Wall-mount / Post-mount	
output power（kW）	7.3	11	22	7.3	11
Connectors	Type 2 cable、Type 2 socket with or without shutter			Type 2 cable	
Connectivity	Ethernet RJ45 •Bluetooth 5.0 •Wifi 2.4GHz •4G LTE •OCPP 1.6J or 2.0.1			•Bluetooth 5.0 •Wifi 2.4GHz	
RCD *	DC 6mA			DC 6mA	
Weight(kg)	5.43(plug) 2.5(shutter/socket)			3.7	
protection rating	IP55, IK08			IP55, IK08	
Electrical Protection	Overcurrent, overvoltage, undervoltage, ground fault and surge protections integrated			Overcurrent, overvoltage, undervoltage, ground fault and surge protections integrated	
Product Dimension	320*190*130（plug） 320*190*144.5(shutter/socket)			197*196*105	
Warranty	3years			3years	

*Internal RCD-DD meets the trip time characteristics specified in IEC 62955
*External RCCB is required
*Select Type A or Type B according to local regulations

Summary of the EV charger's Functions

L series （Home）	Axxx-E1 （Home）	Axxx-E-2 （Home）	Axxx-E-A （Home / Comercial）	Axxx-E-B （Commercial / Industrial）	Cxxx-E （Commercial & Public）
Charging Schedule	Charging Schedule	Charging Schedule	Charging Schedule	Charging Schedule	Charging Schedule
Plug & Play	Plug & Play	Plug & Play	Plug & Play	Plug & Play	Plug & Play
Remote Control via APP (Bluetooth/WiFi)	Remote Control via APP (Bluetooth/WiFi)	Remote Control via APP (Bluetooth/WiFi)	Remote Control via APP (Bluetooth/WiFi)	Remote Control via APP (Bluetooth/WiFi)	Remote Control via APP (Bluetooth/WiFi)
Dynamic Load Balancing	Dynamic Load Balancing	Dynamic Load Balancing	Dynamic/Static Load Balancing	Dynamic/Static Load Balancing	Dynamic/Static Load Balancing
Modbus TCP(RS485)	Modbus TCP(RS485)	Modbus TCP(RS485)	Modbus TCP(RS485)	Modbus TCP(RS485)	Modbus TCP(RS485)
	RFID(4byte)	RFID(4byte)	RFID(4byte)	RFID(4/7byte)	RFID(7byte)
		OCPP1.6J/2.0.1	OCPP1.6J/2.0.1	OCPP1.6J/2.0.1	OCPP1.6J/2.0.1
		4G Optional	1-3 phase switching(PV)	1-3 phase switching(PV)	1-3 phase switching(PV)
			Dry contact Ripple control	Dry contact Ripple control	Dry contact Ripple control
			LAN port connect to EMS	LAN port connect to EMS	LAN port connect to EMS
			4G Module Optional	CT Direct (only 7.3kW)	CT Direct (only 7.3kW)
One Plug & Socket version：7.3kW / 11kW / 22kW , France standard **Shutter**; Double Plug & socket version：2*7.3kW / 2*11kW / 2*22kW Communication：Bluetooth, WiFi, OCPP1.6J，Modbus TCP, Modbus RTU, API protocol, 4G LTE module (no sim card) Installation: Wall mount/ Stand mount, input cable size 10mm^2 /16mm^2				PLC Ready	PLC Ready
				4G Module Optional	POS Payment
					MID / RCD / LCD



POST OF EV CHARGER

- Base：200*150 mm
- Main part：60*120*1200mm
- Material: Galvanized Steel
- Weight: 4.3kg

THICKENED MATERIAL

WATERPROOF AND RUST-PROOF

SIMPLE INSTALLATION

ROBUST AND DURABLE

RCB

Ripple Control Box

- Rail moounting：35 mm
- Main part：105*54*32mm
- Material: Plastic
- Weight: 0.3kg
- Signal input: Dry Contact Input
- Power supply: 12Vdc
- **Connect to Ripple Control Receiver and communication with EV Charger**

Overall Flame Retardant

Easy Installation

Small Size

Safety

DPD-1-B

Phase-sequence switching box

- Communication: RS 485
- Input/Output Voltage: 400Vac
- Input/Output Power: 22kW
- Protection Rating: IP55 / IK10
- Size(L*W*D): 263*193*55mm
- Net Weight: 2kg
- Function: **Phase-aware and switching**

Overall Flame Retardant

Easy Installation

Small Size

Safety

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

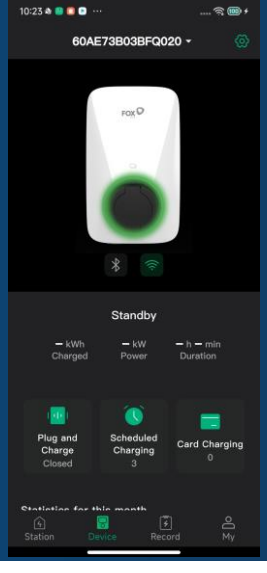
Cnotrol your charger with FoxSwitch app，Find the FoxSwitch APP on the Apple APP & Google Play stores.

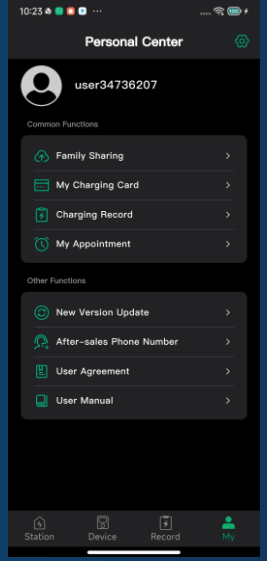
Download on the App Store

GET IT ON Google Play

02

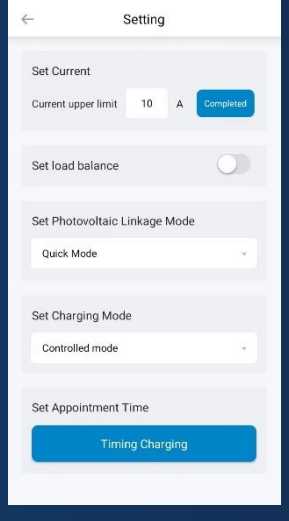
Control start or stop charging
Monitor the status of working
View your statistics in real time.

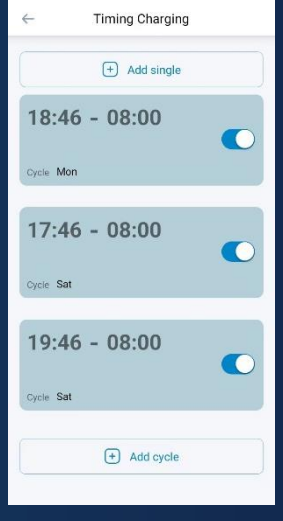




03

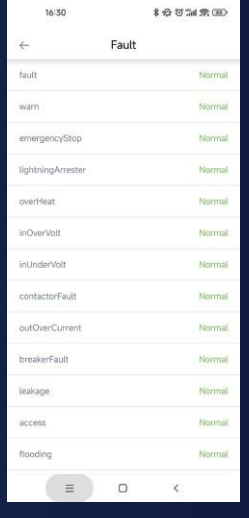
Set PV linkage work mode
Set charging mode
Set charging time schedule





04

Update firmware remotely
Query fault and charging order.

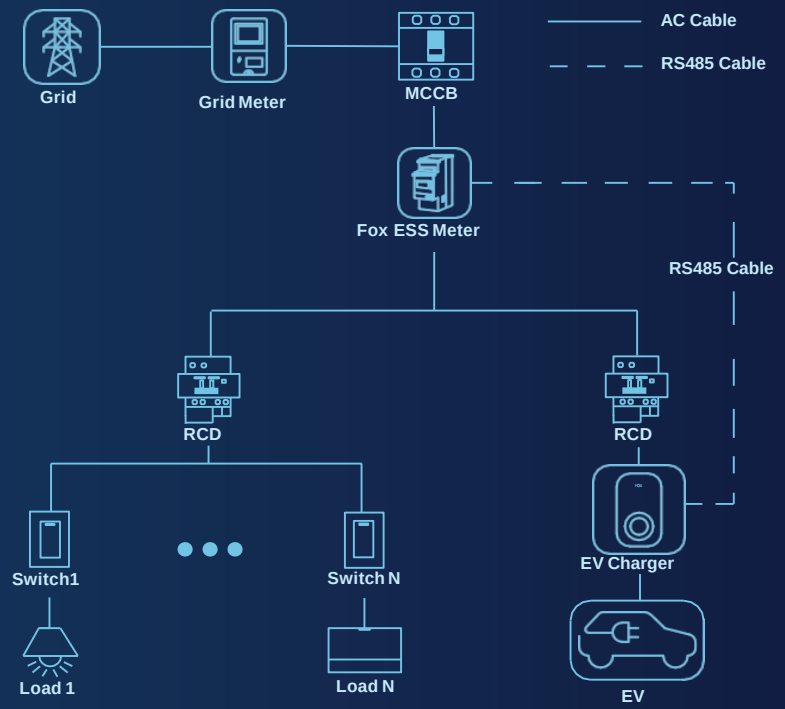


DYNAMIC LOAD BALANCE

Dynamic Load Balance

When the power consumption exceeds the limit, the charger's current is restricted to protect house load.

It can **balance the total available power** distribution of **HOUSE LOADS AND EV CHARGER** at the same time.

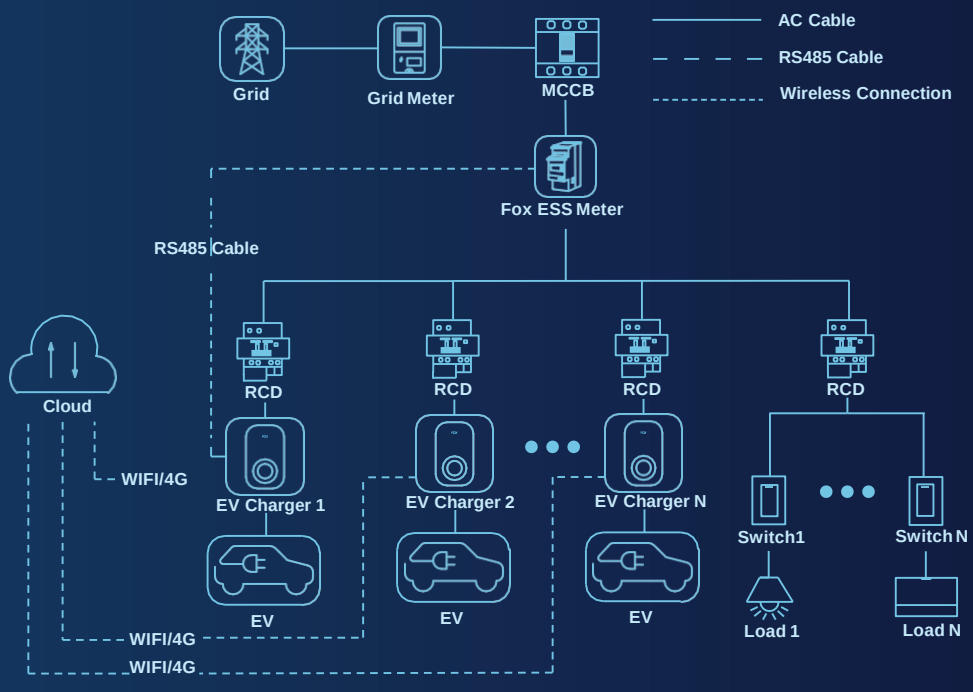


STATIC LOAD BALANCE

Static load balancing

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

Manages the safe operation of multiple chargers within a charging station.



FOX ESS BRAND SOLAR SOLUTION

Solar only

Use the power from PV + Battery only,

EV charger min. charge current 6A.

- Inverter under **self-use** mode with no limit of grid exporting power

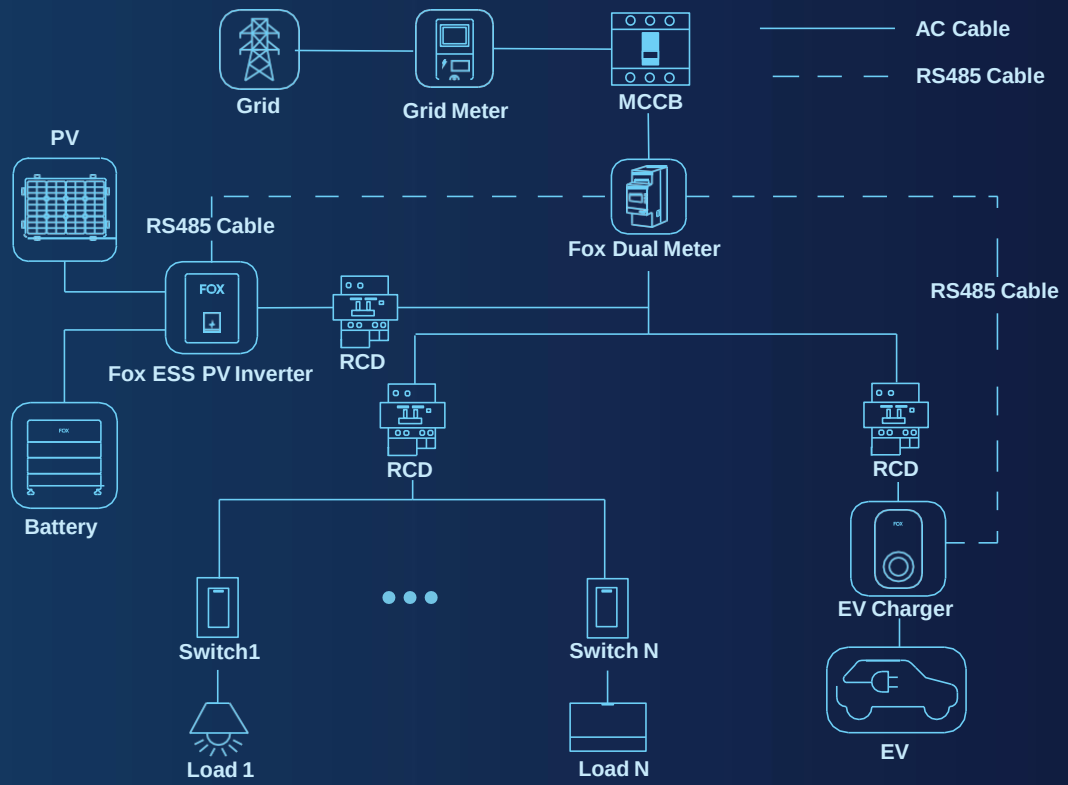
① PV power support priority: home load -> EV Charger -> Battery

PV power – home load ＞ 6~32A charging EV

PV power – home load ＜ 6A Battery discharge for EV charger

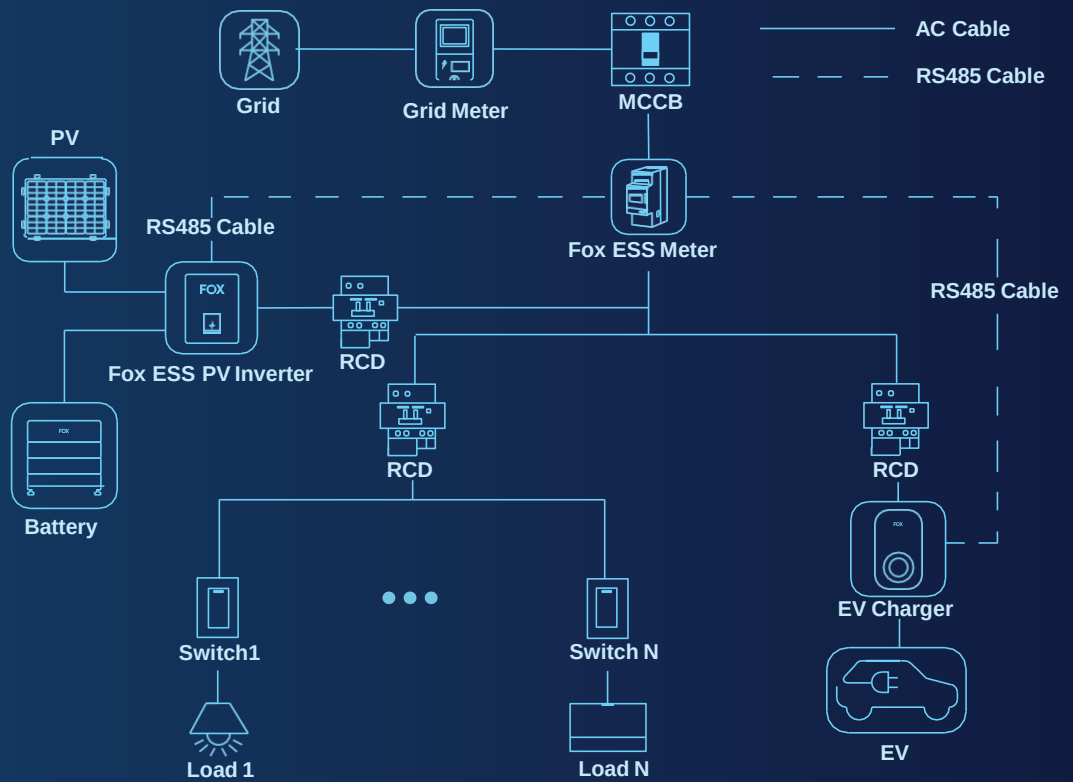
② (PV + Battery) power support priority: home load -> EV Charger

③ Battery power support priority: home load -> EV Charger



FOX ESS BRAND SOLAR SOLUTION

Under Green Mode, the charging start and stop will switch frequently, **Grid&Solar Mode** better than Solar Mode.



Grid&Solar mode

Use the power from PV + Battery + Grid. Grid current no more than 6A

- Inverter under **self-use** mode with no limit of grid exporting power

① PV power support priority:
home load -> EV Charger -> Battery
PV power – home load ＞ 6~32A charging EV

② (PV + Battery) power support priority:
home load -> EV Charger
(PV + Battery) power – home load ＜ 6A Grid provides the current meet 6A.

③Battery power support priority:
home load -> EV Charger
Battery power – home load ＜ 6A Grid provides the current meet 6A.

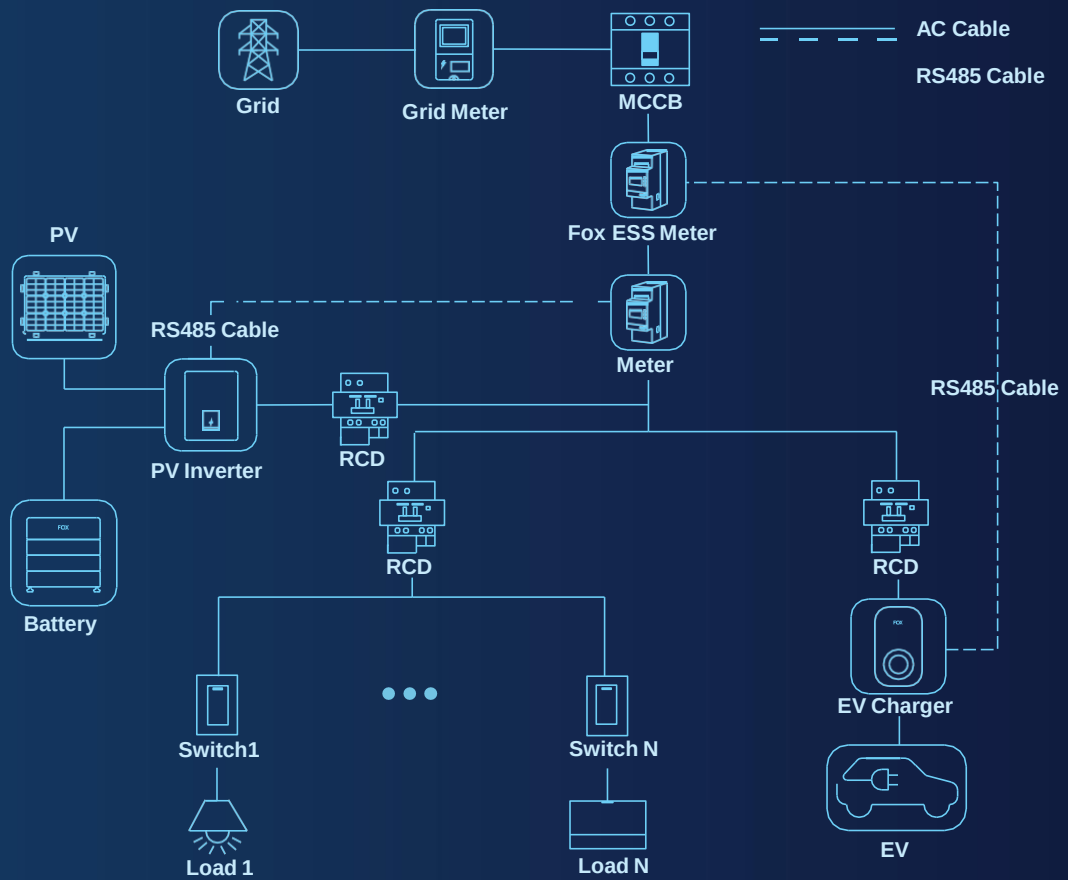
NOT FOX BRAND SOLAR SOLUTION

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

Solar only, 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.

Grid & Solar 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.**

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



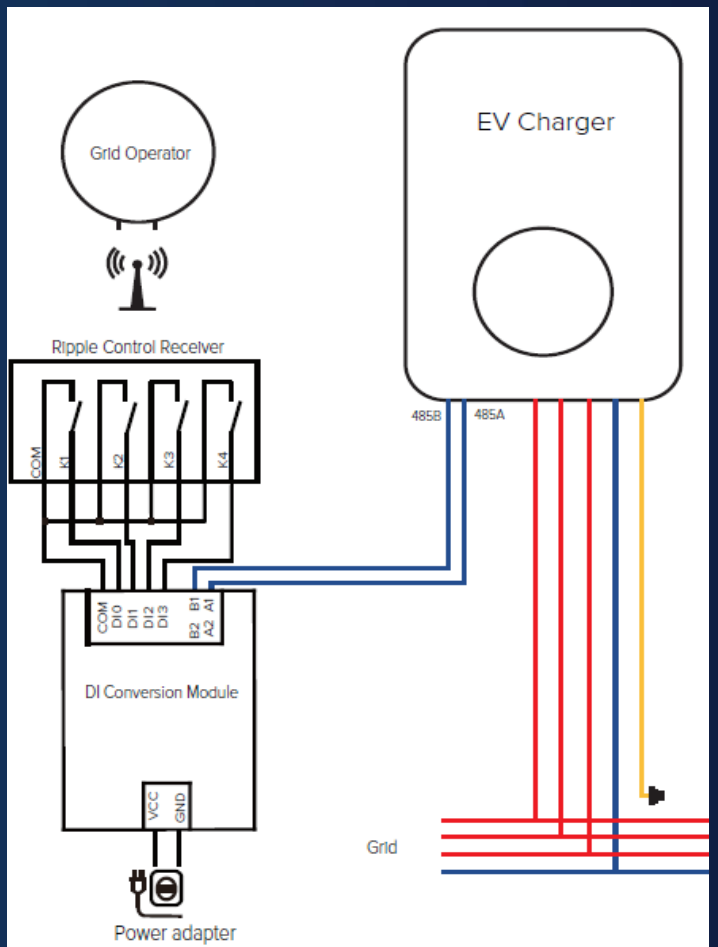
Ripple control Function

DI Conversion Module connect to Ripple Control Receiver and communication with EV Charger.

When the grid issues a power dispatch command, the Ripple Control Receiver immediately outputs a dry contact signal.

The DI Converter Module quickly detects this signal change and immediately sends a charge power reduction command to the EV charger via its integrated RS485 interface.

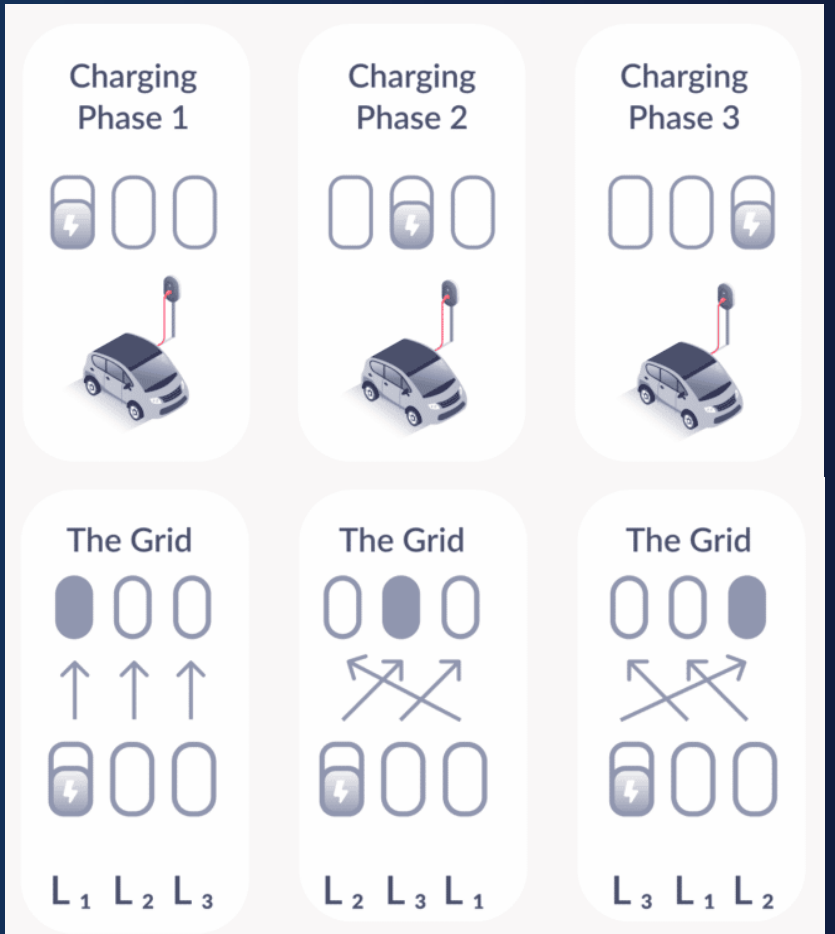
The EV charger immediately reduces the charging power to 4.2 kW (11kW to 4.2kW).



Phase-Aware Load Balancing

Dynamic Phase-sequence Switching Box has a phase sequence switching function after it is matched with 3-phase EV Charger.

When the phase current difference of the charging station is high, the phase sequence switching function can be used to adjust the phase output of the 3-phase EV Charger, reduce the phase current difference, and achieve the effect of balancing the phase current load



PLC Ready
ISO15118-2

ISO 15118-2 also comes with a feature called Plug & Charge.
Plug & Charge deploys several cryptographic mechanisms to **secure this communication and guarantee the confidentiality, integrity, and authenticity of all exchanged data**.
This is achieved by using the Transport Line Security (TLS) protocol.
The ISO 15118-2 digital communication implements the following features:

- security concept including encryption, signing, key management, etc.
- robust PLC-based communications
- automatic address assigning and association
- IPv6-based communications
- compressed XML messages
- client-server approach
- safety concept including cable check, welding detection, etc
- extension concept for added-value services

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

How to choose Smart meter

		Usage Scenarios	Series	Configuration	Description	Internal Produce Code	Unit
Single 485	Single Phase	Home	Load balancing Energy Meter	DDSU666 Single phase meter 5(60)A	Bidirectional Single phase meter for DOMESTIC (7.3KW) (Without MID) Single RS485	30-803-00002-01	pcs
	Three Phase	Home	Load balancing Energy Meter	DTSU666 Three phase meter 5(80)A	Bidirectional Three phase meter for DOMESTIC (11KW,22KW) (Without MID) Single RS485	30-803-00005-00	pcs
Dual 485	Single Phase	Home	Load balancing Energy Meter	DDSU666 Single phase meter 5(80)A	Bidirectional Single phase meter for DOMESTIC (7.3KW) (Without MID) Dual RS485 Dimension (H x W x D) 100 x 36 x 65.5 mm	30-803-00024-00	pcs
	Three Phase	Home	Load balancing Energy Meter	DTSU666 Three phase meter 5(80)A	Bidirectional Three phase meter for DOMESTIC (11KW,22KW) (Without MID) Dual RS485 Maximum Current: 80A Dimension (H x W x D) 100 x 72 x 65.5 mm	30-803-00029-00	pcs
		Bussiness Commercial (Current > 80A)	Load balancing Energy Meter	DTSU666 Three phase meter 1.5(6)A	Bi-directional three-phase meter, requires matching three CTs, for commercial and business use. (11 kW, 22 kW) (Without MID) Dual RS485 Dimension (H x W x D) 100 x 72 x 65.5 mm	97-803-00011-00	pcs
			Load balancing CT	CT NCTK-24 200A/5A	CT NCTK-24 200A/5A CHINT ±0.5% -25℃~55℃	30-804-00015-00	pcs
Tips		**DTSU666 three-phase meter (1.5(6)A)** requires additional CTs for operation. Each meter needs **three** CTs. Meter code: 97-803-00011-00 CT code: 30-804-00015-00					

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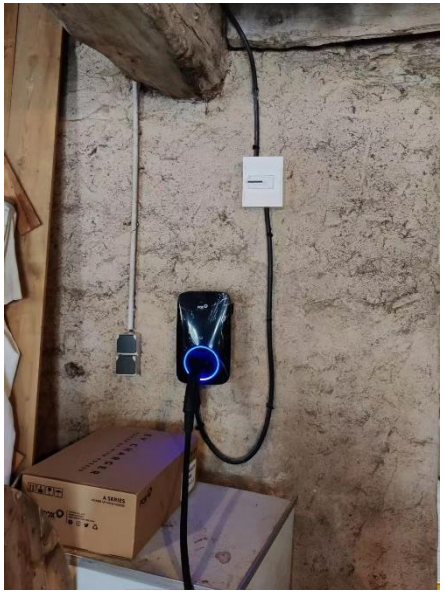
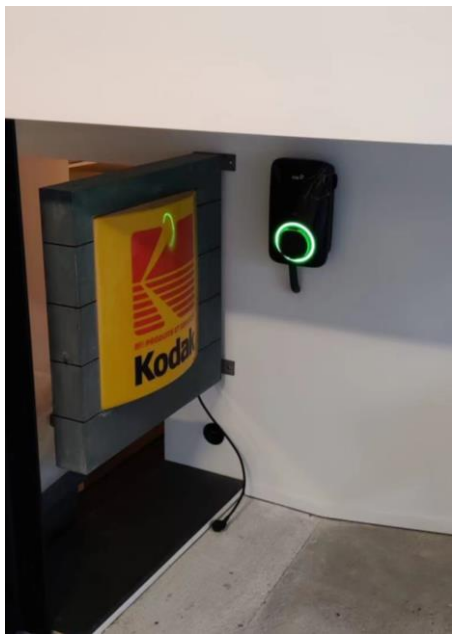
PROJECT PICTURES

Slovenia

FOX ESS
PROJECT PICTURES

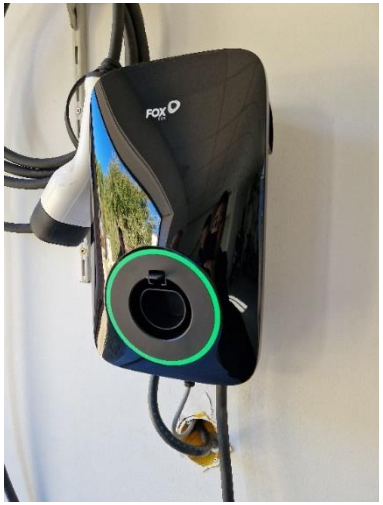
Köln, German





France

Site Picture



Euro

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PROJECT PICTURES

Wenzhou, China

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Site Picture

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