



Product Brochure

Inverter | Battery |
EV Charger | Heat Pump

www.fox-ess.com



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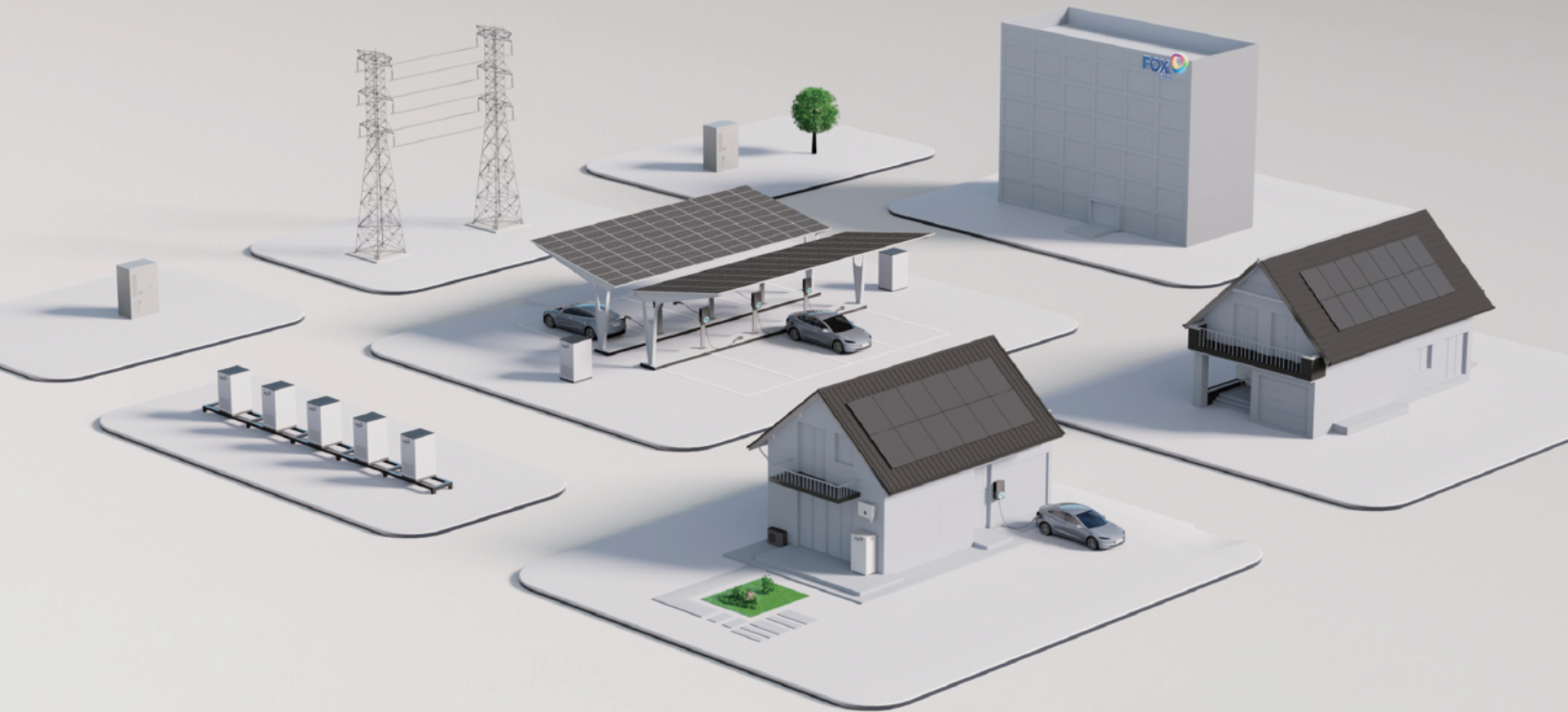
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FOX ESS WORLD



WHO WE ARE

Founded in 2019 and headquartered in Wenzhou, China, Fox ESS is a national high-tech enterprise specializing in the R&D, production, sales, and service of renewable energy power equipment, with a strong focus on advanced power electronics. Committed to global growth, Fox ESS is on track to establish a presence in 70+ countries and regions by the end of 2025, and over 200 partnerships driving innovation across Asia, Europe, the Americas, Africa, and Oceania. Guided by a customer-first philosophy, we deliver high-efficiency renewable energy solutions worldwide through innovation and exceptional value.



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 and other products always keep the leading position. The R&D team of Fox ESS is mainly composed of experts in inverter and energy storage technology, including a variety of senior technical experts with rich experience in well-known enterprises of the industry.



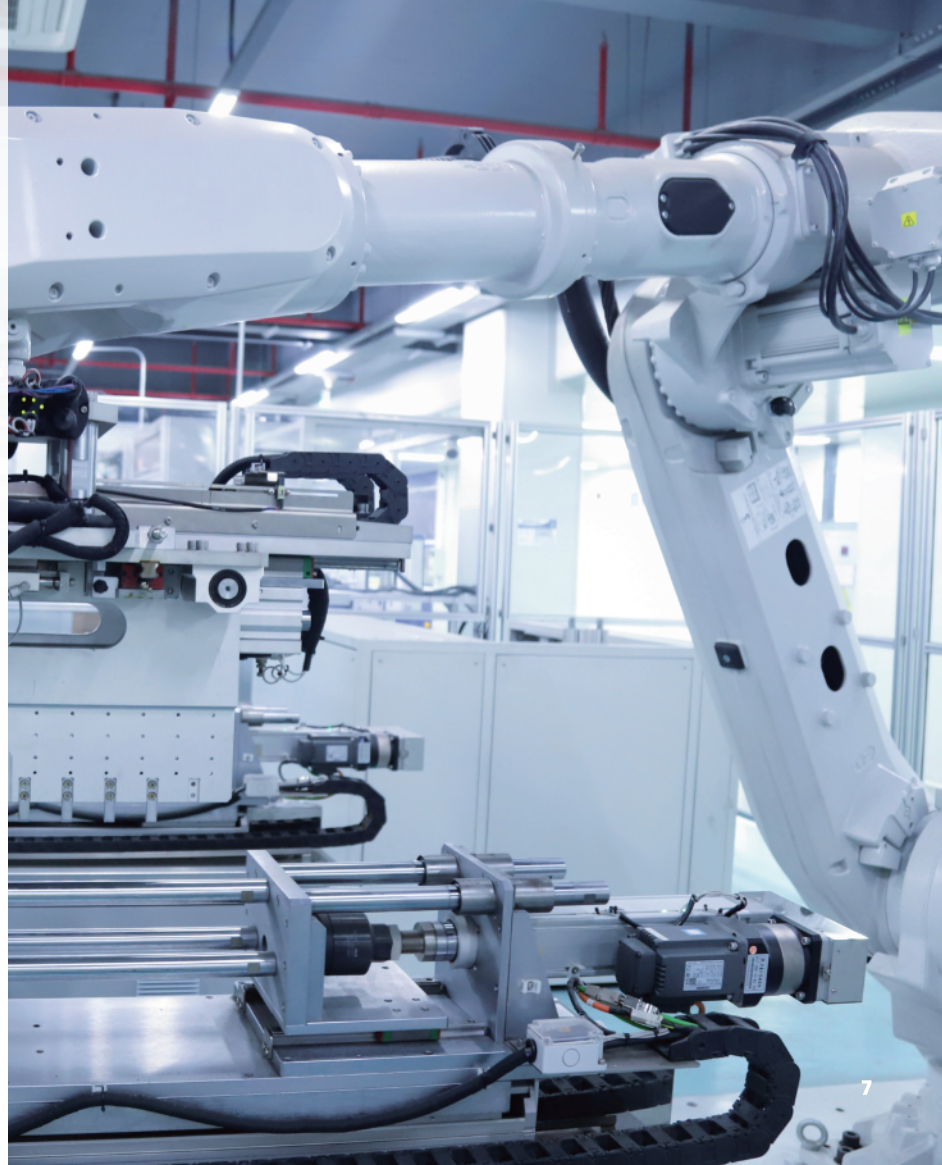
QUALITY IS PRICELESS

Fox ESS inverters are precisely engineered to provide maximum performance, efficiency, reliability and longevity. Particularly, we source our components from the world's leading manufacturers.

The quality of components used directly impact on the lifespan of an inverter. This particularly applies to the capacitors, the most important components, accounting for more than 20% of the total electrical component costs and usually the weakest part of an inverter.

This is why we selected the world's number one brand for our products, potentially doubling the products' operating life span when compared to other brands.

Fox ESS inverters incorporate a unique heat-sink and cooling fin design. It is integrated into the inverter casing to ensure optimal direct contact with heat generating components.



PRODUCT 01

RESIDENTIAL ENERGY STORAGE SYSTEM

AIO Series:

S22 / S28 / P100 / EVO 10 / PowerQ / PQ + EQ Battery

Inverter + Battery:

H1 / KH / H3 Smart / H3 PRO / US / EQ BATTERY / EP BATTERY / CQ BATTERY

The home storage systems come in integrated & modular versions to fit diverse household need. Built on high-voltage architecture, they deliver exceptional quality, efficiency, and all-round safety. The AIO models integrates MPPTs, PCS, BMS, and batteries for super-easy installation, flexible modular expansion, and longer-lasting backup capability—reliable, neat, and ready to power your home from for free.

S22

Single-Phase, Energy Storage System 0.8kW

- All-in-One residential micro storage system, plug and play, highly flexible and extendable.



Easy
Installation



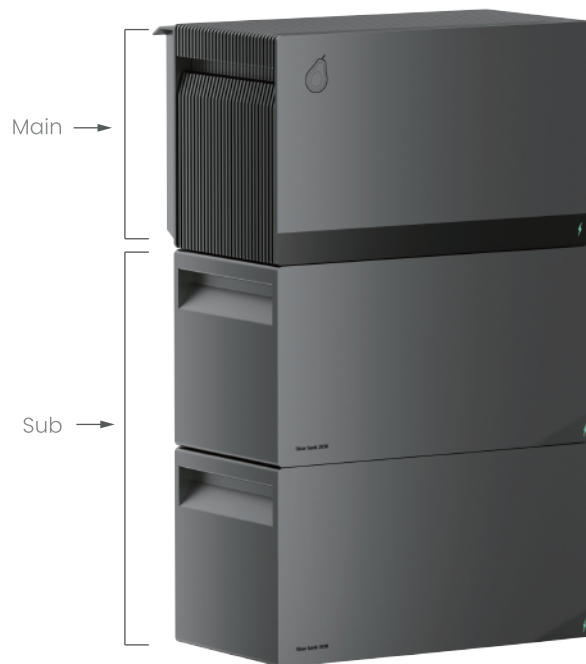
Less is
More



IP65
Rated



Fully Integrated
Storage System



S28

Single-Phase, Energy Storage System 2.4kW

- All-in-One residential micro storage system, plug and play, highly flexible and extendable.



Easy
Installation



Less is
More



IP65
Rated



Fully Integrated
Storage System



P100

Single-Phase, Energy Storage System 5 ~ 10kW

- A next-generation energy storage system solution with a fully-integrated inverter/charger and boasting a range of advanced features.



Less is
More



Double Off-grid
Backup
Capability



Fully Integrated
Storage System



4ms



EVO 10

Single-Phase, Energy Storage System 5 ~ 10kW

- A next-generation energy storage system solution with a fully-integrated inverter/charger and boasting a range of advanced features.



Less is
More



Double Off-grid
Backup
Capability



Fully Integrated
Storage System



4ms



PowerQ

Split-Phase, All-in-One Residential Energy Storage System 3.8 ~ 11.4kW

- The latest generation of an integrated residential energy storage system is tailored to meet the US market, with up to 80kWh total backup capacity.
- It is designed to meet various backup scenarios via modular system design and scalability, this Fox ESS US product offers a variety of applications to all customers.



Easy
Installation



Flexibility



TYPE
4X



Remote
Monitoring

PQ Inverter →

EQ Battery →



PQ + EQ Battery

Single-Phase /Three-Phase, Hybrid/AC Energy Storage System 3.7 ~ 15.0kW

- The latest generation of an integrated residential energy storage system, modular designed to meet various installation scenarios.



Easy
Installation



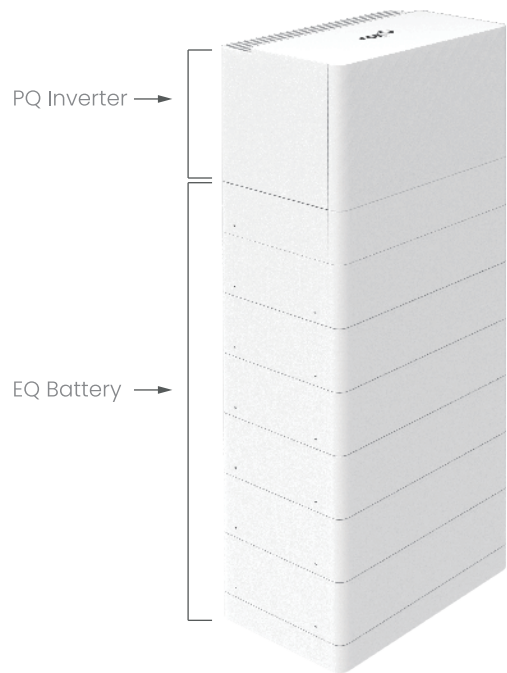
Flexible
Application



IP65
Rated



Remote
Monitoring



H1 / AC1

Single-Phase, Hybrid/AC Inverter 3 ~ 6kW

- Harness the power of the sun everyday with the ground-breaking range of Hybrid & AC inverters from Fox ESS.
- Full of advanced features and compatible with our proprietary high-voltage batteries.



Easy
Installation



High
Voltage



IP65
Rated



Remote
Monitoring



KH / KA

Single-Phase, Hybrid/AC Inverter 7 ~ 10.5kW

- The power output capacity of the single-phase energy storage system is increased, which can provide more flexible applications to our customers.



Easy
Installation



High
Voltage



IP65
Rated



Remote
Monitoring



H3 Smart

Three-Phase, Hybrid Inverter 5 ~ 15kW

- Harness the power of the sun everyday with the ground-breaking range of Hybrid inverters from Fox ESS. Full of advanced features and compatible with our proprietary high-voltage batteries.



Easy
Installation



High
Voltage



IP65
Rated



Remote
Monitoring



H3 PRO

Three-Phase, Hybrid Inverter 15 ~ 30kW

- 3 MPPTs+2 Battery sets, different combinations bring high flexibility according to various scenario.



Easy
Installation



High
Voltage



IP65
Rated



Remote
Monitoring



US

Split-Phase, Hybrid/AC Inverter 3.8 ~ 11.4kW

- The design of the revolutionary single phase storage inverter is tailored to meet the US market. With wide range of power output capacity and up to 4-unit parallel operation, this Fox ESS US product offers a variety of applications to all customers.



Easy
Installation



High
Voltage



IP65
Rated



Remote
Monitoring



Application Scenario:
Residential

EQ BATTERY

EQ3300 / EQ5000 / EQ5500

- Modular design and expandable.
- Plug-and-play installation, lower the installation costs.
- Wide voltage range, compatible with a variety of inverters.
- SOC high precision estimation technology.
- Temperature/voltage self-adaptation function, prolonging service life.
- Self-diagnostic technology and plentiful safety design can improve reliability.



**HIGH
VOLTAGE**



**EASY
INSTALLATION**



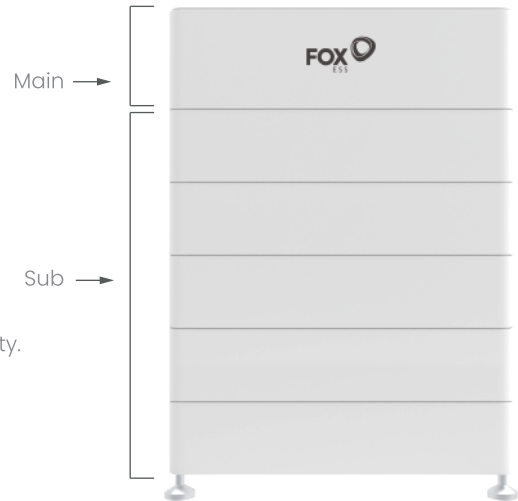
**HIGH
EFFICIENCY**



**EXPANDABLE
SYSTEM**



**IP65
RATED**



EP BATTERY

EP6 / EP12

- Integrated design and expandable.
- Plug-and-play installation, lower the installation costs.
- Compatible with a variety of inverters.
- SOC high precision estimation technology.
- Temperature/voltage self-adaptation function, prolonging service life.
- Self-diagnostic technology and plentiful safety design for higher reliability.



HIGH
VOLTAGE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



IP65
RATED



Application Scenario:
Commercial & Industrial

CQ BATTERY

CQ7

- Integrated design and expandable.
- Plug-and-play installation, reducing the installation costs.
- Compatible with a variety of inverters.
- SOC high precision estimation technology.
- Voltage balancing algorithm, prolonging service life.
- Self-diagnostic technology and plentiful safety design for higher reliability.



**HIGH
VOLTAGE**



**EASY
INSTALLATION**



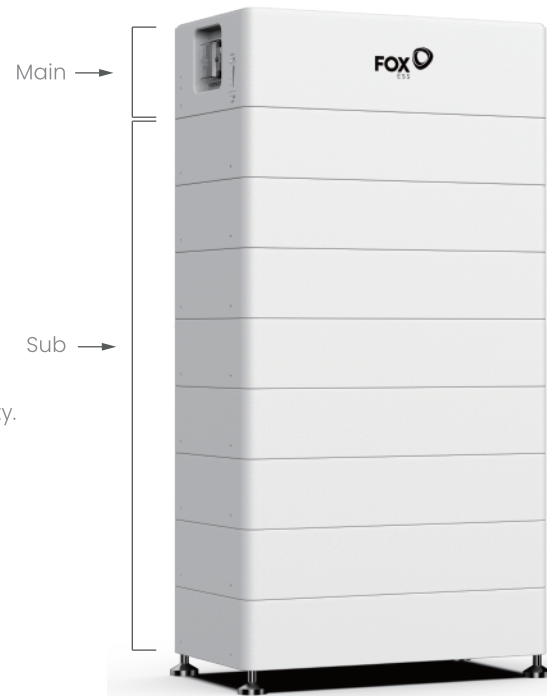
**HIGH
EFFICIENCY**



**EXPANDABLE
SYSTEM**



**90%
DOD**



PRODUCT 02

C&I ENERGY STORAGE SYSTEM

All in one:

G-MAX / G-MAX PLUS

Invertor + Battery:

H3 PLUS / CQ BATTERY

The C&I energy storage system implements All-in-One (AIO) design, integrating long-cycle batteries, intelligent BMS, high-efficiency PCS, proactive safety protection, smart power distribution and precision thermal management into one standardized container. It enables fast deployment, flexible expansion, and stable long-duration backup power, delivering reliable, high-performance energy support for critical industrial and commercial operations.

G-MAX

Commercial and Industrial Energy Storage System 100kW+215kWh

- Compartmentalized design with a preventive alarm system.
- Zero power loss through efficient temperature control and frequency variation.
- Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to FoxCloud via Wi-Fi, 4G or 5G.
- Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.



Safety



Economic



Intelligent



Augmentable



G-MAX PLUS

Commercial and Industrial Energy Storage System 50 ~ 125kW+241kWh

- Compartmentalized design with a preventive alarm system.
- Zero power loss through efficient temperature control and frequency variation.
- Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to FoxCloud via Wi-Fi, 4G or 5G.
- Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.



Safety



Economic



Intelligent



Augmentable



H3 PLUS

Three-Phase, Hybrid Inverter 50 ~ 125kW

- A state-of-the-art hybrid inverter models designed for maximum efficiency and reliability. With outstanding specifications and advanced features it is a market changer in commercial applications.



Easy
Installation



EPS
Function



IP65
Rated



Remote
Monitoring



Application Scenario:
Commercial & Industrial

CQ BATTERY

CQ7 / CQ16

- Integrated design and expandable.
- Plug-and-play installation, reducing the installation costs.
- Compatible with a variety of inverters.
- SOC high precision estimation technology.
- Voltage balancing algorithm, prolonging service life.
- Self-diagnostic technology and plentiful safety design for higher reliability.



HIGH
VOLTAGE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



90%
DOD



PRODUCT 03

PV INVERTER

M/Q/S/E/F/G/T/V/VL/R

Fox ESS offers a range of inverters offering unparalleled efficiency and performance.

Our range starts with a 600W model – small and compact and with an ultra-low start-up voltage that will ensure you to harvest the most energy possible from your solar panels. With inverters sized to cater for almost all scenarios, with a range from 600W to 136kW, which fulfill demands from residential to the commercial, clients will be able to configure their installations consistently to the terminal easily and flexibly with fabulous efficiency. Safety has always been the prime concern from Fox ESS, and we provide extraordinary devices to keep property and human lives safe.

M

Microinverter series 0.6 ~ 1.2kW

- Low DC voltage, high safety.
- Intelligent module-level monitoring, allows you to see the status of each component in the system.
- High generation efficiency, cloudy weak light performance, avoid the "bucket effect".
- Long service life.



High
Performance



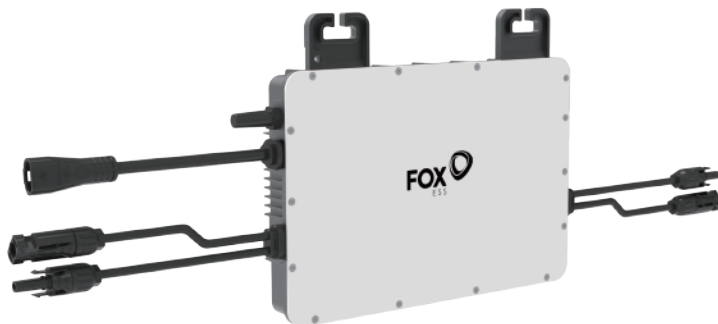
Easy
Installation



IP67
Rated



Remote
Monitoring





Microinverter series 1.6 ~ 2.4kW

- Low DC voltage, high safety.
- Intelligent module-level monitoring, allows you to see the status of each component in the system.
- High generation efficiency, cloudy weak light performance, avoid the "bucket effect".
- Long service life.



High
Performance



Easy
Installation



IP67
Rated



Remote
Monitoring



S

Single-Phase, Single MPPT String Inverter 0.7 ~ 3.3kW

- Smaller volume, more convenient installation.
- In line with the aesthetic design of the human body and home characteristics.
- Higher conversion efficiency, more compliant to the needs of small installations.



High
Performance



Easy
Installation



IP65
Rated



Remote
Monitoring



E

Single-Phase, Single MPPT String Inverter 3 ~ 6kW

- In line with human aesthetic design and home characteristics.
- Higher conversion efficiency, more in line with the needs of small installations.
- Wider MPPT input current range which is compatible with high power PV panels.
- With AFCI (Arc-fault detection function).



High
Performance



Easy
Installation



IP65
Rated



Remote
Monitoring



F

Single-Phase, Dual MPPTs String Inverter 3 ~ 6kW

- In line with human aesthetic design and home characteristics.
- Higher conversion efficiency, more in line with the needs of small installations.
- Wider MPPT input current range which is compatible with high power PV panels.
- With AFCI (Arc-fault detection function).



High
Performance



Easy
Installation



IP65
Rated



Remote
Monitoring





Single-Phase, Three MPPTs String Inverter 7 ~ 10.5kW

- In line with human aesthetic design and home characteristics.
- Higher conversion efficiency, more in line with the needs of small installations.
- Wider MPPT input current range which is compatible with high power PV panels.
- With AFCI (Arc-fault detection function).



High
Performance



Easy
Installation



IP65
Rated



Remote
Monitoring



T

Three-Phase, Dual MPPTs String Inverter 3 ~ 30kW

- Ultra-wide power application range: 3 ~ 30kW.
- With AFCI (Arc-fault detection function).
- Diversified interface design, better compatible with third-party systems (Design for special needs of Polish and German power grids).
- Wider MPPT input current range which is compatible with high power PV panels and applicable to more scenarios.



High
Performance



Easy
Installation



IP65
Rated



Remote
Monitoring



V

Three-Phase, Three/Four/Six MPPTs String Inverter 30 ~ 75kW

- High protection level: IP66 protection level, anti-corrosion C5.
- With AFCI (Arc-fault detection function).
- Integrated PID repair function, stronger reliability.
- Support high power in stand-alone mode.



PV String
Monitoring



AFCI
Function



PID
Recovery



IP66
Rated



VL

Three-Phase Low AC Voltage, Four MPPTs String Inverter 15 ~ 37.5kW

- High protection level: IP66 protection level, anti-corrosion C5.
- With AFCI (Arc-fault detection function).
- Integrated PID repair function, stronger reliability.
- Support high power in stand-alone mode.



PV String
Monitoring



AFCI
Function



PID
Recovery



IP66
Rated



R

Three-Phase, Nine/Ten MPPTs String Inverter 75 ~ 136kW

- High protection level: IP66 protection level, anti-corrosion C5.
- With AFCI (Arc-fault detection function).
- Integrated PID repair function, stronger reliability.
- Support high power in stand-alone mode.



PV String
Monitoring



AFCI
Function



PID
Recovery



IP66
Rated



PRODUCT 04

EV CHARGER

A SERIES:

A7300 / A011K / A022K

L SERIES:

L07P / L11P

C SERIES:

C014K / C022K / C044K

The AC EV Charger boasts a streamlined design that is simple yet elegant, compact, intelligent, and easy to use. Through the APP, vehicle owners will be able to conveniently configure the EV Charger remotely. We offer a variety of working modes suitable for different scenarios, ideal for home, business, and charging station operators.

A

A7300 / A011K / A022K

- IP55 and IK08 protection.
- Meet the dynamic adjustment of charging power.
- The solar system allows for the direct use of photovoltaic power.
- Compliant with OCPP standards.
- Provide connection options such as Bluetooth, Wi-Fi, 4G, and Ethernet.



Durability



Dynamic
Load Balance



Solar
Linkage



Scheduled
Time Charging



L

L07P / L11P

- IP55 and IK08 protection.
- Meet the dynamic adjustment of charging power.
- The solar system allows for the direct use of photovoltaic power.
- Access and control settings remotely from any location via Wi-Fi or communication.
- Simple installation.



Durability



Dynamic
Load Balance



Solar
Linkage



Scheduled
Time Charging



C

C014K / C022K / C044K

- IP55 and IK10 protection for reliable performance.
- V2G Hardware-ready (ISO 15118) with dynamic load balancing.
- Direct surplus solar power for EV charging.
- Supports QR code payment and reservation charges.
- Provide connection options such as Bluetooth, Wi-Fi, 4G, or Ethernet.



**Robust
Durability**



**Flexible Integra-
tion**



**Advanced
Technology**



**Renewable
Energy
Compatibility**



PRODUCT 05

HEAT PUMP

HP / HP BOX

The Heat Pump series boasts a streamlined, high-efficiency design featuring A+++ energy levels, eco-friendly R290 refrigerant, and advanced noise reduction technology. Through the Fox ESS App and web platform, users can intelligently configure their heating system remotely and monitor real-time operating data via integrated Wi-Fi or LAN modules. We offer the versatile HP Series for stable performance in temperatures as low as -25°C and the all-in-one HP Box Series for a simplified, space-saving installation, ideal for residential and commercial energy-saving scenarios.

HP

Single-Phase/three-Phase

- R290 refrigerant.
- High efficiency A+++ energy level.
- Full DC inverter technology.
- Noise reduction technology.
- Stable running at -25°C ambient temperature.
- Smart control family.



Inverter
Technology



Smart
Control



Intelligent
Defrosting



User Friendly
Display



HP BOX

Single-Phase/three-Phase, Hydro Module

- Integrated hydronic components - Backup heater, 3-way valve, dirt filter.
- Integrated dirt filter, pressure relief valve, air vent valve.
- SG Ready function.
- Operating data can be transmitted to FoxCloud via Wi-Fi or LAN.



Optimized
Solution



Easy
Installation



Safety



Intelligent



HP BOX

Single-Phase/three-Phase, Hydro Box

- All components integrated in one box.
- Integrated dirt filter, pressure relief valve, filling section.
- SG Ready function.
- Operating data can be transmitted to FoxCloud via Wi-Fi or LAN.



All-in-One



Easy
Installation



Safety



Intelligent



PRODUCT 06

BOX

HV-Junction Box / EPS BOX-TP / EPS BOX-PRO / EMBox / AI LINK
AI LINK PRO / FOX HUB

To meet the requirements of various application scenarios, FOXESS has developed different BOX series to support DC-side and AC-side parallel connection, communication, and whole-home backup power solutions.

HV-Junction Box

4-way Battery

- Supports up to 4-way battery parallel connection.
- Easy installation.
- IP65 protection level.



High
Performance



Easy
Installation



IP65
Rated



High
Voltage



EPS BOX-TP

Three-Phase

- Max. input current (per phase) 32A.
- PC+ABS, robust plastic enclosure IP65.
- Applied to residential, commercial solar installations.
- Automatically switch to On-Grid/Off-Grid state.



Max. Input
Current 32A



Easy
Installation



IP65
Rated



Safety



EPS BOX-PRO

Three-Phase

- Max. input current (per phase) 63A.
- PC, robust metal enclosure IP65.
- Applied to residential, commercial solar installations.
- Compatible with H3/AIO H3/H3 Smart inverter.
- Automatically switch to On-Grid/Off-Grid state.



Max. Input
Current 32A



Easy
Installation



IP65
Rated



Safety



EMBox

SmartLogBOX-A

- Operates with up to 30 devices.
- Up to six (6) 485 interfaces.
- Up to two (2) ethernet connections and two (2) CAN ports.
- Wi-Fi/4G for external communication.
- Active & reactive power control.



Multi-
Networking



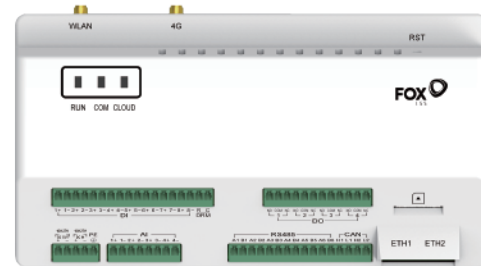
Easy
Installation



IP20
Rated



System
Integration



AI LINK

For H3 Pro, R series parallel installation

- High level of protection, suitable for outdoor installation.
- Wide operating temperature range, suitable for a variety of environments.
- Safe, reliable and highly compatible.



Wide Operating
Temperature
Range



Easy
Installation



IP65
Rated



Safety



AI LINK PRO

Designed For Commercial Parallel System

- Large-capacity local data storage, supporting up to 6 months of offline data storage.
- Powerful local WEB interface with enriched offline configuration functions.
- Built-in 2.3 TOPS NPU computing power, providing a foundation for future edge AI applications.



Global 4G
Connectivity



Easy
Installation



Rich
hardware
interfaces



Rich
scenario
support



FOX HUB

Smart Energy Management System, for USA only

- Research and development tailored to the characteristics and features of the American market.
- Automatic Off-Grid protection.
- Seamless On/Off-Grid transition.
- Smart load shedding circuit.
- Inverter scalability.
- Generator compatibility.



Easy
Installation



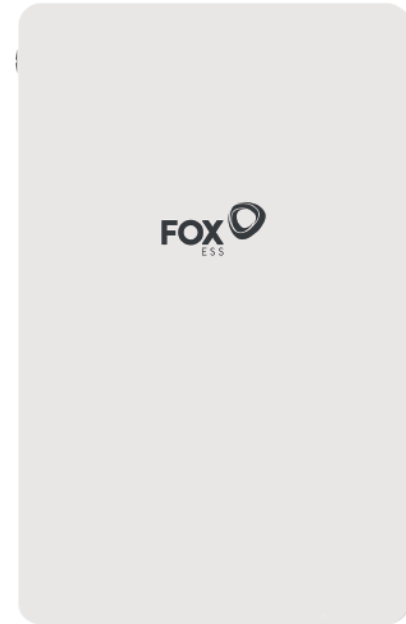
High
Voltage



TYPE
3R



Remote
Monitoring



PRODUCT 07

MONITORING DATALOGGER

All Fox ESS products are compatible with the powerful and intuitive Fox ESS Cloud monitoring platform.

Monitor system performance anywhere in the world with our user-friendly app or web portal. Our app is compatible with both iOS and Android devices in order to view key system data and performance, both live and historic, and also to adjust battery settings so that you can maximise savings according to the time of use.



· SMART WIFI



· SMART GPRS



· Wlan-WW



· SMART 4G

Fox ESS Global Reference



Fox ESS Global Reference



Fox ESS Global Reference



