



EV Charging & Energy Solutions

OCPP 2.0.1 & ISO15118

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Xiamen Galaxy Camphol Technology Co., Ltd.



IOCHARGER INTRODUCTION

iocharger, a registered brand of Xiamen Galaxy Camphol Technology, is a state level High-tech company in the renewable energy sector. With R&D centers and production bases in Xiamen, Suzhou, and Luoyang. We provide premium one-stop solution for OCPP EV charging & Energy management, including CE&UL certified AC/DC EV Charging Stations, CSMS(Charging Station Management System), ESS(Energy Storage System) and EMS(Energy Management System), with reliable hardware & software design.

As a member of OCA(OCPP) & OCPI, we were presented as one of the first OCPP 2.0.1 certifying companies in June 2023, and authorized with the world's 1st Hubject ISO15118 Plug&Charge EVSE CHECK CERTIFICATE in June 2024 , which makes iocharger the unique company in the world with both ISO15118-2 PnC and OCPP2.0.1 certified.

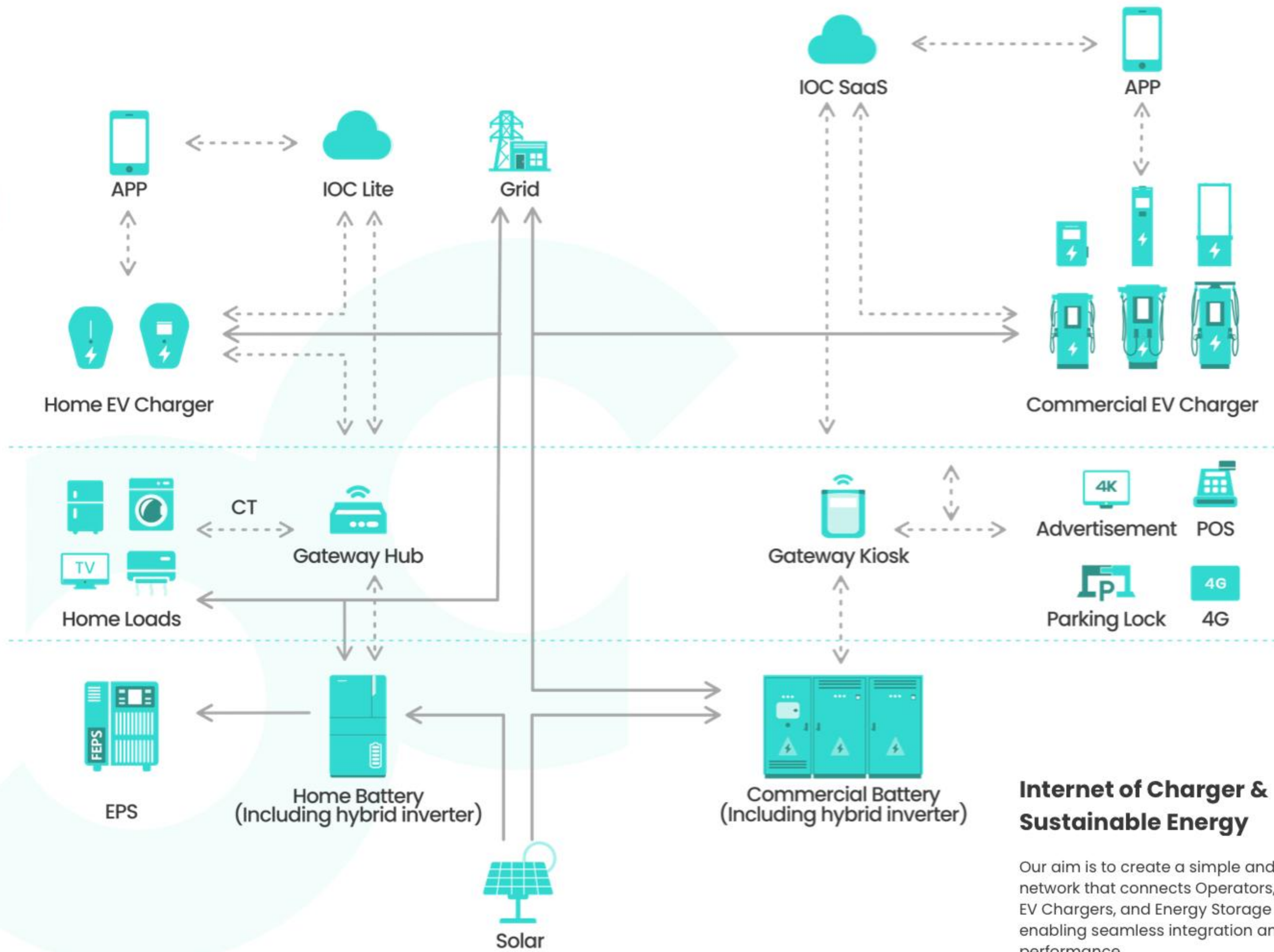
iocharger is committed to innovation, quality, and contributing to a greener, more sustainable world.



IOCHARGER'S WORLD'S 1ST

OCPP 2.0.1 and Hubject ISO15118 PnC certified EV Charging solutions





Internet of Charger & Sustainable Energy

Our aim is to create a simple and intelligent network that connects Operators, Users, EV Chargers, and Energy Storage Systems, enabling seamless integration and optimal performance.

IOCAH15

Multiple color options

- Design with black, white, red, orange, green and blue options



Small and stylish

- Elegant curved design and as small as an iPad Pro

Multiple protocols and standards support

- OCPP 1.6 J & OCPP 2.0.1 full profiles support
- IEC 62196, IEC 61851-1, IEC 61851-21-2, IEC 61000-3-11, IEC 61000-3-12, IEC 62955, IEC 61008-1, UL 2594, UL 2231, IP55, IK10

Dynamic Load Balancing

- Dynamic power distribution to make sure of a safe and effective network for EV Chargers, solar, grid system and energy storage system
- Live monitoring and configuration via IOC Lite App

Various charging options

- Mobile App control via internet or bluetooth
- Plug and charge
- Charge via button



SPECIFICATION

| | | |
|------------------|---|-----------------------------|
| Model | IOCAH29-32/40(UL) | IOCAH15-7S/7T/11S/11T(CE) |
| RCD | Integrated, 20mA CCID(UL) | 30mA AC & 6mA DC(CE) |
| Current Output | 1-Phase 32A/40A Max | 1-Phase 32A/3-Phase 16A Max |
| Enclosure Rating | Type 3R | IP55, IK10 |
| Protocol | OCPP 1.6J | |
| Mounting Type | Wall mount (default) / Floor post (optional) | |
| Dimension(mm) | 288x208x128 | |
| Application | Residential | |
| Color | ● Black ○ White ● Red ● Orange ● Green ● Blue | |



Breathing Light

Customize your favorite color and style



Multi-Functional Physical Button

Program the button for different functions like start/stop charging



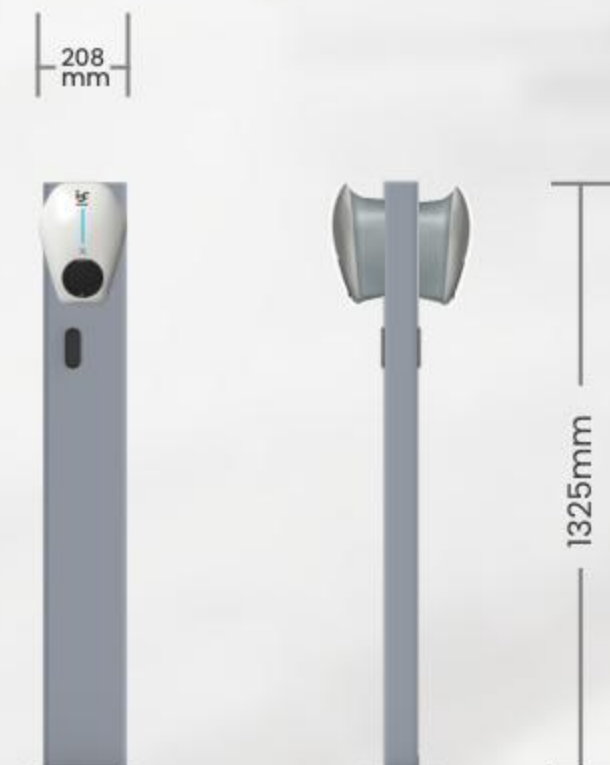
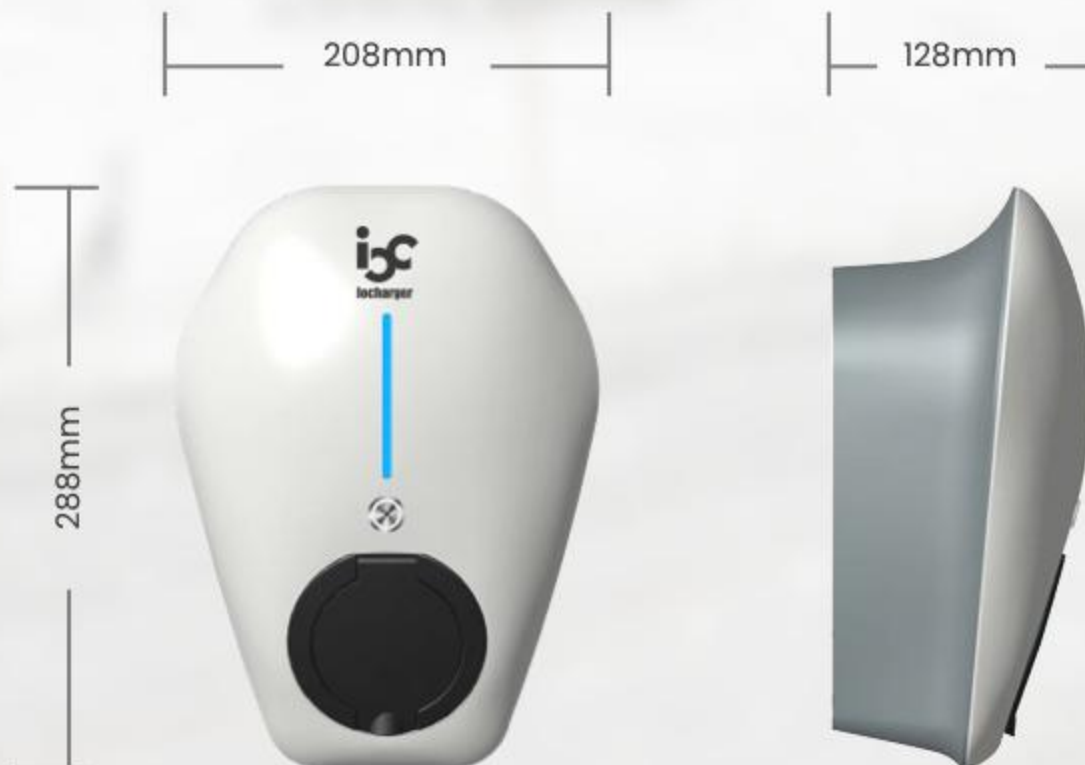
Socket or Tethered

IEC 62196 Type-2 socket
IEC 62196 Type-2 5m cable
Type-1 SAE J1772 5m cable



Logo

White label support



ACCESSORIES

Pole-mount Pedestal
Cable Holder

IOCAH20

Elegant design

- Unique curved shape and highlighted UV to make it more attractive

Easy and fast installation

- Independent backplate design for cable connection and fast deployment, available with a waterproof protection cover
- Easy installation to save time and cost

Multiple protocols and standards support

- OCPP 1.6J & OCPP 2.0.1 full profiles support
- IEC 62196, IEC 61851-1, IEC 61851-21-2, IEC 61000-3-11, IEC 61000-3-12, IEC 62955, IEC 61008-1, UL 2594, UL 2231, IP55, IK10

Safe and stable

- IEC 62955, IEC 61008, UK PME and other local regulations compliant
- Protection against high temperature via charging power auto limitation to run safely and stably

Various connection methods

- Plug and charge
- Charge via button
- Charge via RFID card
- Mobile App control via internet or bluetooth



SPECIFICATION

| | | |
|------------------|--|---------------------------|
| Model | IOCAH10-32/40/50(UL) | IOCAH20-7S/7T/22S/22T(CE) |
| Current Output | 1-Phase 32A/40A/50A Max | 1-Phase/3-Phase 32A Max |
| RCD | Integrated, 20mA CCID(UL) | 30mA AC & 6mA DC(CE) |
| Enclosure Rating | Type 3R | IP55, IK10 |
| Protocol | OCPP 1.6J, OCPP 2.0.1, ISO15118 Plug&Charge | |
| Mounting Type | Wall mount (default) / Floor post (optional) | |
| Dimension(mm) | 380x288x141 | |
| Application | Residential / Commercial | |
| Color | ● Black | |



2.8" LCD Screen

800/1000nit ultra-high brightness for live EV Charger status display



Breathing Light

Customize your favorite color and style



Socket or Tethered

IEC 62196 Type-2 socket
IEC 62196 Type-2 5m cable
Type-1 SAE J1772 5m cable



RFID Card Reader

ISO14443 Mifare RFID card support



Multi-Functional Physical Button

Program the button for different functions like start/stop charging



Logo

White label support



ACCESSORIES

Pole-mount Pedestal
Cable Holder

IOCAW12



Robust design

- Robust metal casing for semi-public/public deployment

Safety protection

- RCCB Type B, Emergency button (optional) and other safety protections

MID Meter

- EN50470 certified MID meter for accurate power metering

Multiple network connections

- Ethernet, Wi-Fi and 4G
- Support cascade mode, multiple EV Chargers share network connection

Dynamic Load Balancing

- Dynamic power distribution to make sure of a safe and effective network for EV Chargers, solar, grid system and energy storage system
- Live monitoring and configuration via Mobile APP

SPECIFICATION

| | | |
|----------------------|--|-----------------|
| Model | IOCAW12-7S/7T | IOCAW12-22S/22T |
| Current Output | 1-Phase 32A Max | 3-Phase 32A Max |
| Protocol | OCPP 1.6J, OCPP 2.0.1 | |
| Mounting Type | Wall mount (default) / Floor post (optional) | |
| Dimension(mm) | 400x270x130 | |
| Application | Residential / Commercial | |
| Network Connectivity | Ethernet, Wi-Fi, 4G | |
| Enclosure Rating | IP55, IK10 | |
| Color | ● Grey | |



7" LCD Screen

EV Charger live status display, as well as advertising information with pictures, videos, texts, etc.



LED Indicator

Breathing LED indicator to show live EV Charger status



Socket or Tethered

IEC 62196 Type-2 socket
IEC 62196 Type-2 5m cable
Type-1 SAE J1772 5m cable



RFID Card Reader

ISO14443 Mifare RFID card support



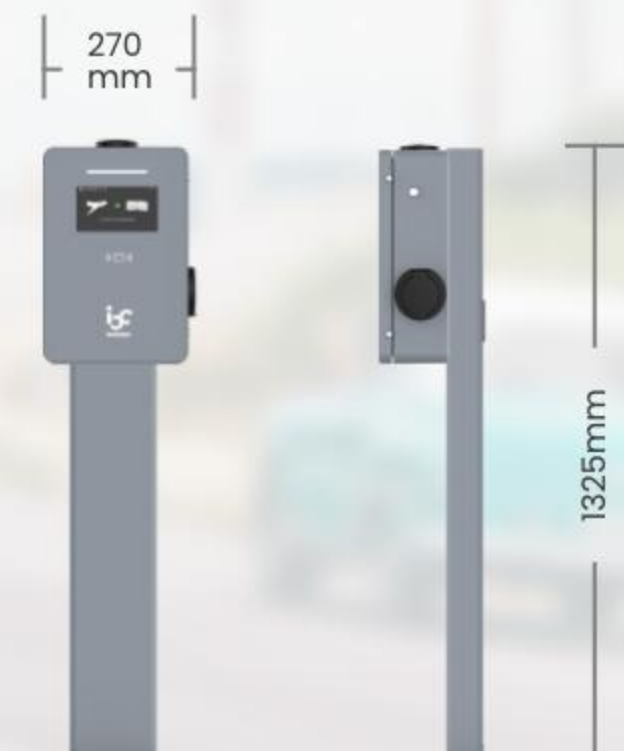
Multi-Functional Physical Button

Program the button for different functions like start/stop charging



Wi-Fi & 4G Antenna

Multi-direction network antenna



ACCESSORIES

Pole-mount Pedestal
Cable Holder

IOCAP26



Multiple protocols and standards support

- OCPP 1.6 J & OCPP 2.0.1 full profiles support
- IEC 62196, IEC 61851-1, IEC 61851-21-2, IEC 61000-3-11, IEC 61000-3-12, A(EN50470-1/-3), IP55, IK10

German Calibration Law (Eichrecht) Certified

- Ensures precision in measurement, transparency in billing, and robust tamper-proof data security

OCPP backend integration

- OCPP integration with iocharger CSMS or other 3rd party platforms

Dual independent power input design

- Each charging connector can work independently without interfering with each other, and support simultaneous charging and Dynamic Load Balancing

POS terminal integration (optional)

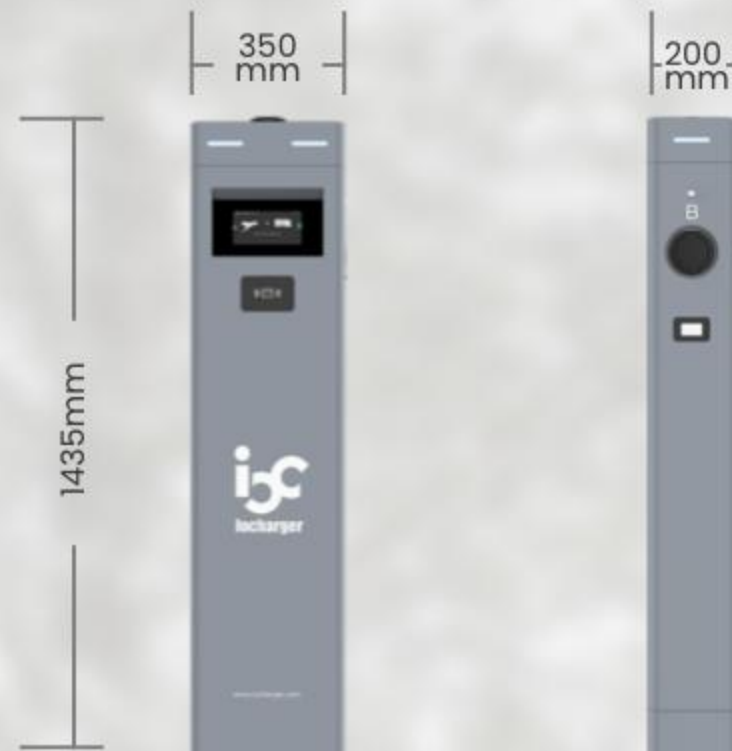
- Nayax, Payter, PAX integration to support local credit card payment
- Credit card, RFID card, Mobile app, Plug&Charge(ISO15118) payment

Safety protection

- RCCB Type B, Emergency button(optional) and other safety protections

SPECIFICATION

| Model | IOCAP26-7S/7T | IOCAP26-22S/22T |
|----------------------|-------------------------|-----------------|
| Current Output | 32A Max x2 | |
| Mobile App | iOS/Android | |
| Dimension(mm) | 1435x350x200 | |
| Application | Commercial | |
| Network Connectivity | Ethernet, Wi-Fi, 4G | |
| Meter | MID Certified Meter x 2 | |
| RCD | Type-B RCCB x 2 | |
| Enclosure Rating | IP55, IK10 | |
| Color | ● Grey | |



7" LCD Screen

EV Charger live status display, as well as advertising information with pictures, videos, texts, etc.



LED Indicator

Breathing LED indicator to show live EV Charger status



Socket or Tethered

IEC 62196 Type-2 socket
IEC 62196 Type-2 5m cable
Type-1 SAE J1772 5m cable



RFID Card Reader

ISO14443 Mifare RFID card support



Multi-Functional Physical Button

Program the button for different functions like start/stop charging



Wi-Fi & 4G Antenna

Multi-direction network antenna



MID/PTB Meter Window

MID meter window display to meet local regulations



Nayax, Payter POS terminal integration on charger

IOCAP25

Internet of Charger & Sustainable Energy

- OCPP 1.6J & OCPP 2.0.1
- ISO 15118 Plug&Charge
- Powering with Solar & Battery
- Dynamic Load Balancing
- POS Terminal Integrated



Robust and modern design

- Robust metal casing for semi-public/public deployment
- Dual independent power input design supporting simultaneous charging and dynamic load balancing

Advertising system integrated

- With 2500 nits high-brightness 55" 1080P LCD display & IK10 protection, enables you to generate revenue from outdoor advertising sales
- Implement targeted advertising campaigns by delivering personalized ad content to each individual EV charger

Multiple protocols and standards support

- IEC 62196, IEC 61851-1, IEC 61851-21-2, IEC 61000-3-11, IEC 61000-3-12, EN55032, EN55035, ENIEC61000-3-2, EN61000-3-3, EN 62368-1
- OCPP 1.6J & OCPP 2.0.1 full profiles support

Multiple network connections

- Ethernet, Wi-Fi and 4G
- 'Cascade' mode supporting network sharing

Collaboration with other businesses

- Identify and collaborate with businesses frequented by EV users, such as malls, restaurants, hotels, and tourist spots, to install charging stations, enhancing customer convenience and boosting brand visibility through revenue-sharing or branding agreements



Loudspeaker
Video or audio player



LED indicator
Breathing LED indicator to show live EV Charger status



RFID card reader
ISO14443 Mifare RFID card support



Charging Connector
IEC 62196 Type-2 socket



Wi-Fi & 4G Antenna
Multi-direction network antenna



55" LCD screen
EV Charger live status display, as well as advertising information with videos, pictures, texts, etc
IK10 protection class



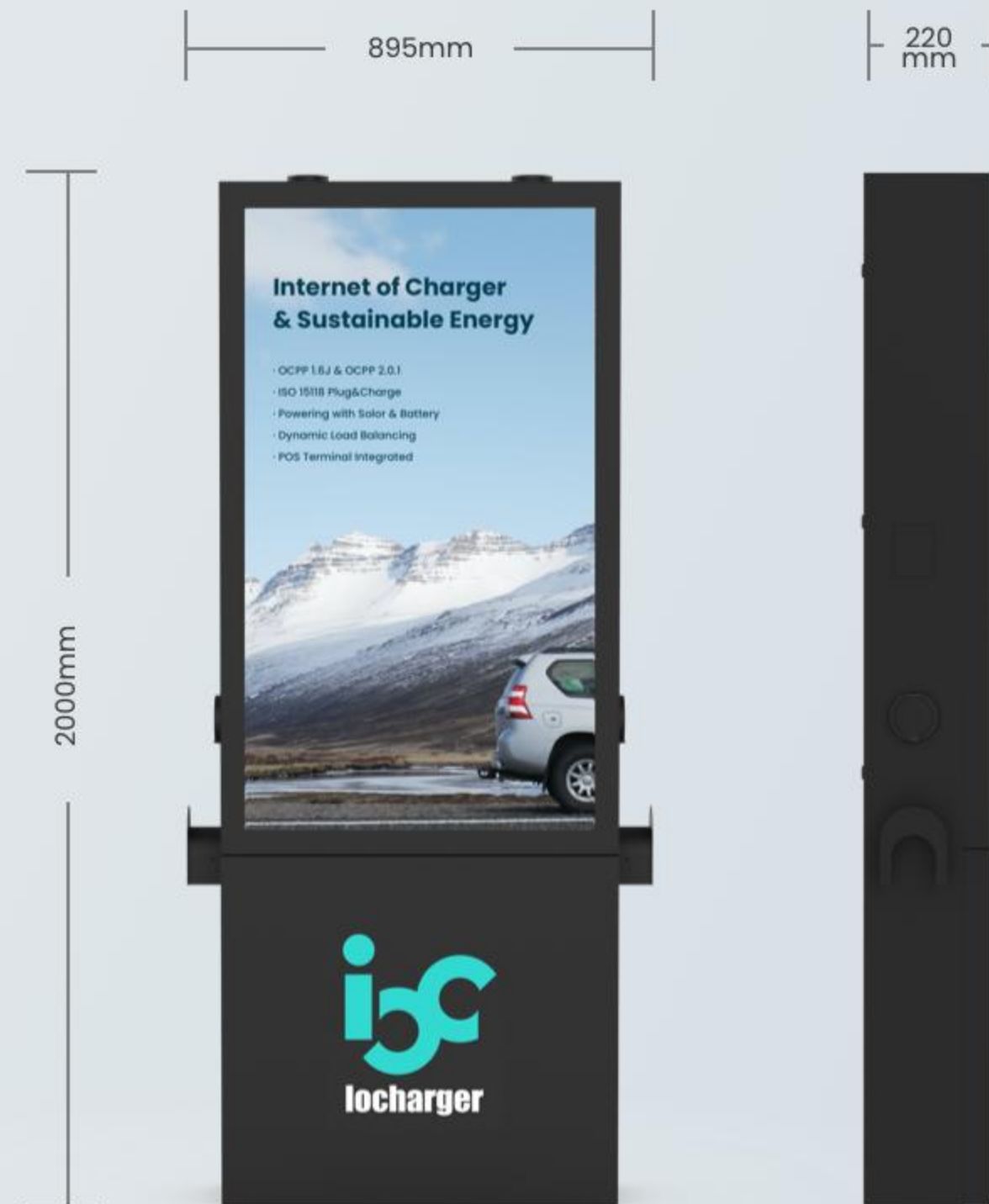
Cable holder
Hanging charging cable



locharger

SPECIFICATION

| Model | IOCAP25-7 | IOCAP25-22 |
|----------------------|---|------------|
| Application | Commercial | |
| Frequency (Hz) | 50/60Hz | |
| Current Output | 32A Max | |
| Charging Connector | Type-2 socket x 2 | |
| Network Connectivity | Ethernet, WLAN, Cellular | |
| Data Protocol | OCPP1.6J, OCPP2.0.1 | |
| DLB | Dynamic Load Balancing | |
| RFID | ISO 14443 | |
| Resolution | 1920x1080 | |
| Brightness | 2500 nits | |
| Working Humidity | < 98% relative humidity, non-condensing | |
| Ingress Protection | IP55, IK10 | |
| Mobile App | iOS/Android | |
| Certification | CE, IEC 61851-1, IEC 62196-2 | |
| Dimension(mm) | 2000x895x220 | |
| Color | ● black | |



IOCNY2

OCPP 1.6 J & OCPP 2.0.1

- Via 4G LTE/ Ethernet

Multi-payment

- Nayax, Payter, PAX terminal integration on charger or separate installation
- Credit card, RFID card, Mobile app, Pin-Code(OTP) and Plug&Charge(ISO15118)

Advertising system integration

- With 21.5" 1080P CTP Touch display & IK08 protection, enables you to generate revenue from outdoor advertising sales
- Implement targeted advertising campaigns by delivering personalized ad content to each individual EV charger

Distribute power via load balancing

- Adjustable operating current & power

Online remote maintenance system

- Independent remote monitoring and maintenance system to manage and diagnose the chargers even if it's connected to any 3rd party OCPP backend system

OTA technology

- Firmware update via OTA



SPECIFICATION

| | | |
|-----------------------------|---|-------------|
| Output Power | 60kW/120kW | 180kW/240kW |
| Output Voltage | 150-1000V DC | |
| Efficiency | ≥94% | |
| Dimension(mm) | 1950x1050x475 | |
| Ingress Protection | IP55, IK10 | |
| Cooling | Forced air | |
| Charging Connector Capacity | 375A/1000V for CCS, 125A/500V for CHAdeMO, 250A/1000V for GBT | |



21.5" CTP Touch Screen

IK08 protection class
EV charger live status display, as well as advertising information with videos, pictures, texts, etc.



Status Indicator

Customize your favorite color and style



Charging Interface

CCS1, CCS2, CHAdeMO and GB/T



RFID Card Reader

ISO14443 Mifare RFID card support



Emergency Stop Button

Stop the EV Charger in an emergency to ensure the safety



Cable Management System

Fit in existing space, regardless of the size of the site



Installed on charger



Independent POS payment gateway



IOCHY2



Online remote maintenance system

- Online remote maintenance Independent remote monitoring and maintenance system to manage and diagnose the chargers even if it's connected to any 3rd party OCPP backend system

Multi-payment

- Credit card, RFID card, Mobile app, Pin-Code(OTP) and Plug&Charge (ISO15118)

OTA technology

- Firmware update via OTA

OCPP 1.6 J & OCPP 2.0.1

- Via 4G LTE/ Ethernet

CE TUV certified

- Fully compliant with EU regulations

Flexibility

- Available with single or dual connectors

POS terminal integration

- Nayax, Payter, PAX terminal integrated on charger or separate installation

SPECIFICATION

| | |
|-----------------------------|--|
| Output Power | 30kW-60kW |
| Output Voltage | 150-1000V DC |
| Efficiency | ≥94% |
| Mounting Type | Wall Mount (default) / Floor Post (optional) |
| Dimension(mm) | 355x690x770 |
| Ingress Protection | IP54, IK10 |
| Cooling | Forced air |
| Charging Connector Capacity | 200A/1000V for CCS, 125A/500V for CHAdeMO, 250A/750V for GBT |



8" TFT Touch Screen

IK08 protection class
EV Charger live status
display



Status Indicator

Customize your
favorite color and style



Charging Interface

CHAdeMO and GB/T,
CCS1, CCS2



Door Opening Handle

Convenient inspection and
maintenance of internal
components

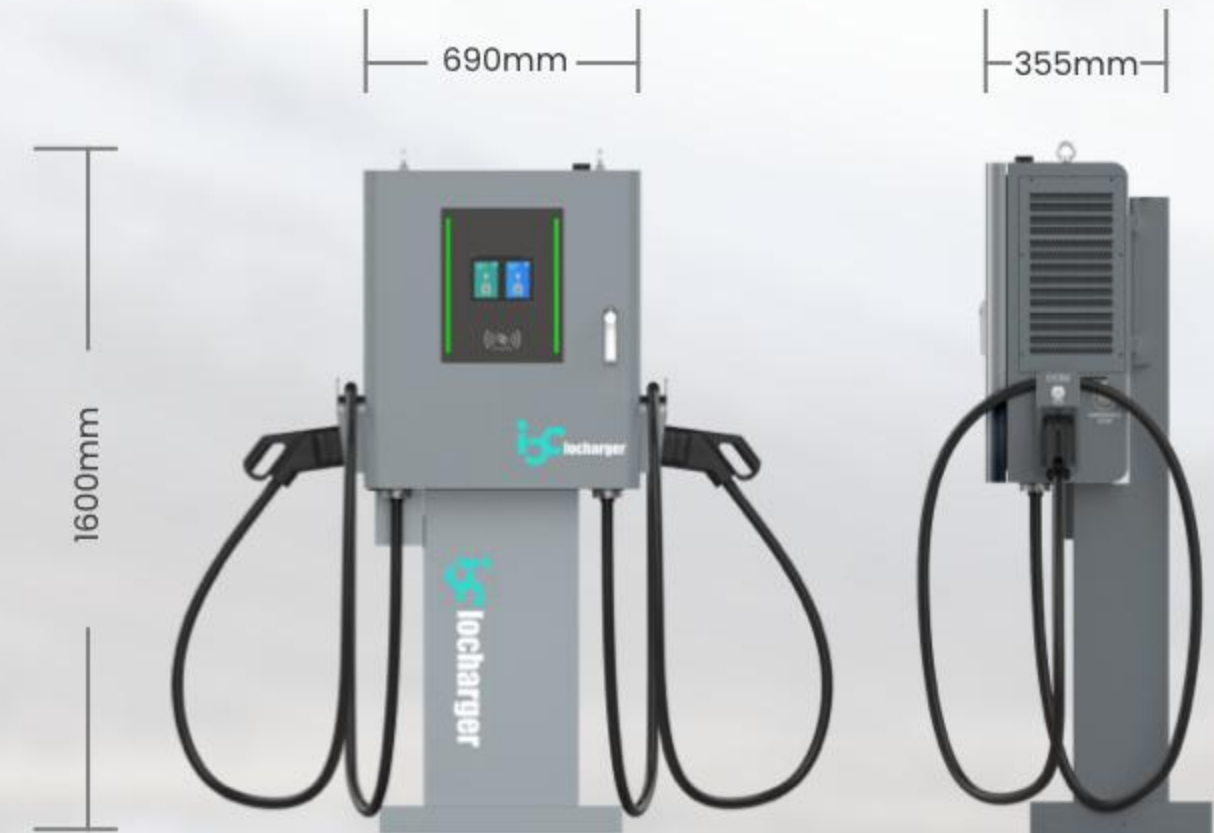


RFID Card Reader

ISO14443 Mifare RFID card
support



Independent POS payment gateway



IOCLY2



Advertising system integrated

- With 21.5" 1080P CTP Touch display & IK08 protection, enables you to generate revenue from outdoor advertising sales
- Implement targeted advertising campaigns by delivering personalized ad content to each individual EV charger

Multi-payment

- Nayax, Payter, PAX terminal integration on charger or separate installation
- Credit card, RFID card, Mobile app, Pin-Code(OTP) and Plug&Charge(ISO15118)

Cable management system

- Fits flexible parking configurations and ensures charging cables stay above the ground at all times, protect cables and connectors from damage from the ground or exposure to the elements.

OCPP 1.6 J & OCPP 2.0.1

- Via 4G LTE/ Ethernet

Online remote maintenance system

- Independent remote monitoring and maintenance system to manage and diagnose the chargers even if it's connected to any 3rd party OCPP backend system.

OTA technology

- Firmware update via OTA

SPECIFICATION

| | |
|-----------------------------|--|
| Output Power | 240kW-420kW |
| Output Voltage | 150-1000V DC |
| Efficiency | ≥95% |
| Protection Class | IP55, IK10 |
| Cooling | Forced air |
| Dimension(mm) | Without CMS: 800x940x2089 With CMS: 1050x940x2374 |
| Charging Connector Capacity | 375A/1000V for CCS-2 |



21.5" CTP Touch Screen

IK08 protection class EV charger live status display, as well as advertising information with videos, pictures, texts, etc.



Cable Management System

Fit in existing space, regardless of the size of the site



Emergency Stop Button

Stop the EV Charger in an emergency to ensure the safety



Charging Interface

CCS-2



RFID Card Reader

ISO14443 Mifare RFID card support



Installed on charger



Independent POS payment gateway



Without CMS



With CMS

IOCHY3

Optimized for every location

- Charge up to 4 vehicles simultaneously

Multi-payment

- Credit card, RFID card, Mobile app, Pin-Code(OTP) and Plug&Charge(ISO15118)

OTA technology

- Firmware update via OTA

OCPP 1.6 J & OCPP 2.0.1

- Via 4G LTE/ Ethernet

Distribute power via load balancing

- Adjustable operating current & power

Online remote maintenance system

- Independent remote monitoring and maintenance system to manage and diagnose the chargers even if it's connected to any 3rd party OCPP backend system.

POS terminal integration

- Nayax, Payter, PAX terminal integrated on charger or separate installation



SPECIFICATION

| | | |
|-----------------------------|--|--------------|
| Output Power | 60kW 120kW DC | 22kW-43kW AC |
| Output Voltage | 150-1000V DC | |
| Efficiency | ≥94% | |
| Dimension(mm) | 1850x750x640 | |
| Protection Class | IP54, IK10 | |
| Cooling | Forced air | |
| Charging Connector Capacity | 200A/1000V for CCS, 125A/500V for CHAdeMO, 250A/1000V for GB/T | |



8" TFT Touch Screen

IK08 protection class
EV Charger live status display



Status Indicator

- Connector A charging
- Connector B charging
- Connector C charging
- Power
- Fault



Emergency Stop Button

Stop the EV Charger in an emergency to ensure the safety



Charging Interface

CHAdeMO, CCS1, CCS2, GB/T



RFID Card Reader

ISO14443 Mifare RFID card support



Connector Identification

A: CHARGING PLUG DC
B: CHARGING PLUG DC
C: CHARGING PLUG AC



Installed on charger



Independent POS payment gateway



IOCESS

Seamless Modular Design

- Unified design of hybrid inverter and battery storage
- Modular stacking up to 6 batteries

Easy Installation

- Easy one man handling
- Fast connector design

Multiple standards support

- EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, CEI

Extreme Safety

- Safer and longer life-span LFP batteries
- Individual cell level monitoring
- 6 points temperature detection & built-in Aerosol fire suppression module

Cloud System

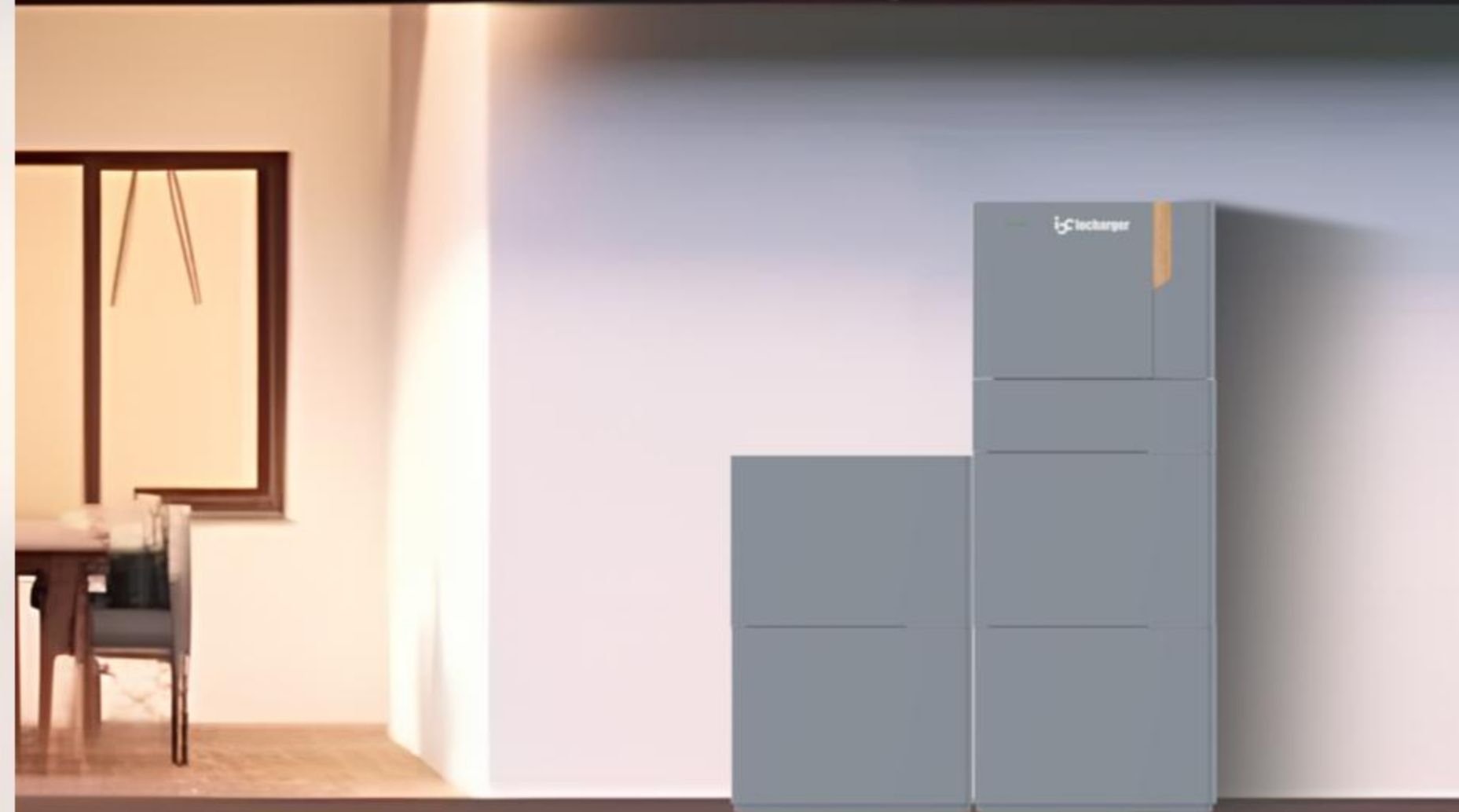
- Monitor and manage via Mobile App/backend system

High Efficiency

- Integration with EV Charger for energy management

Maximize the energy efficiency and cost savings

- Recharge from free sunshine or low cost electricity
- Use stored energy when electricity price is higher
- Intelligent control of energy flows during peak/off-peak time
- Optimize EV charging efficiency and cost
- One-stop energy management via Mobile App

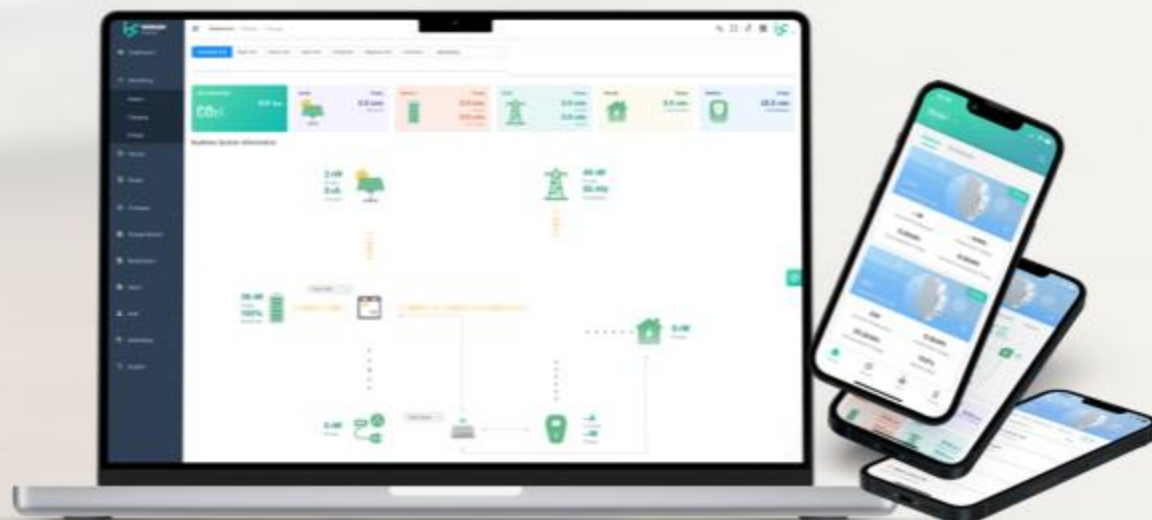
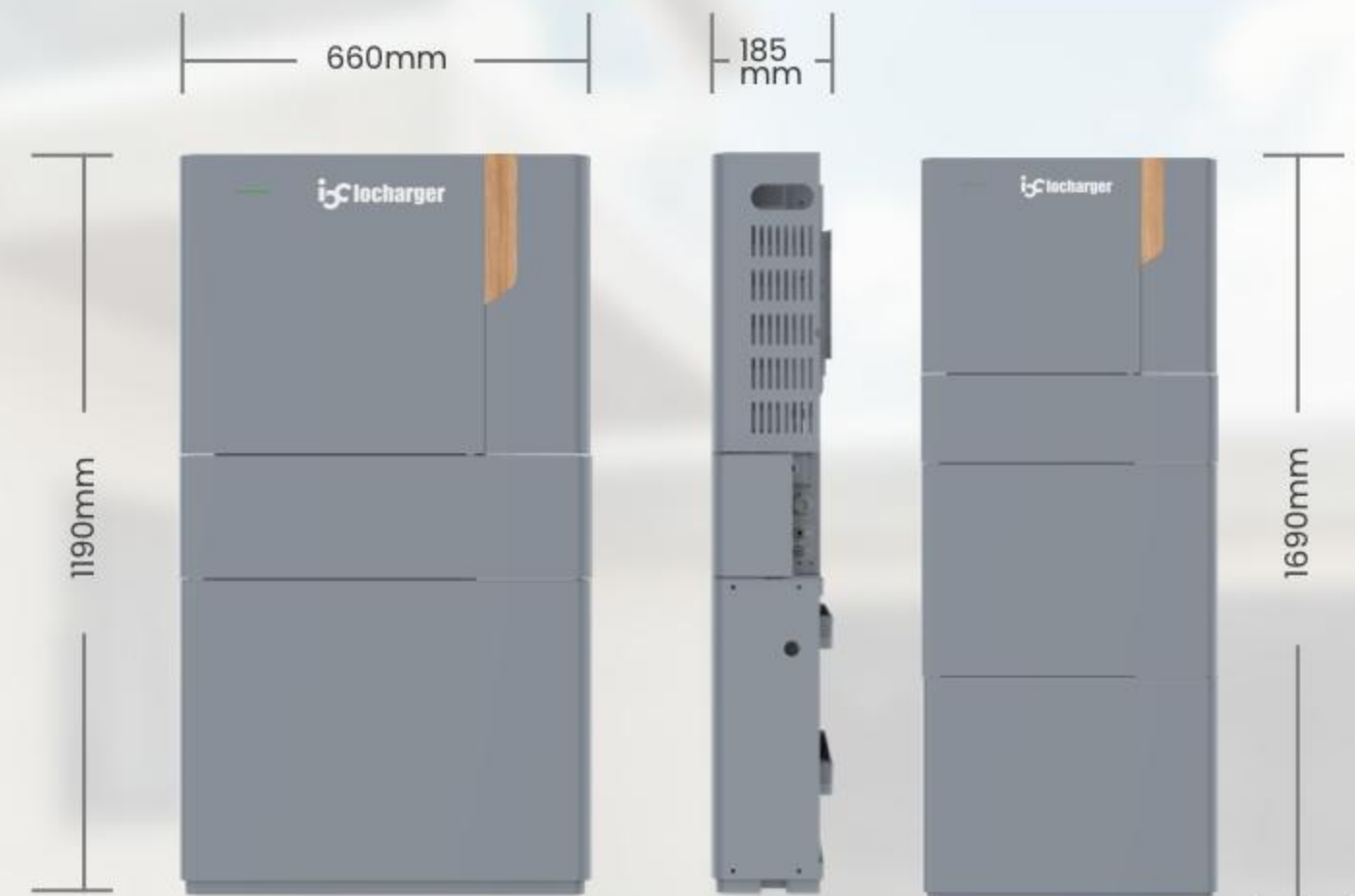
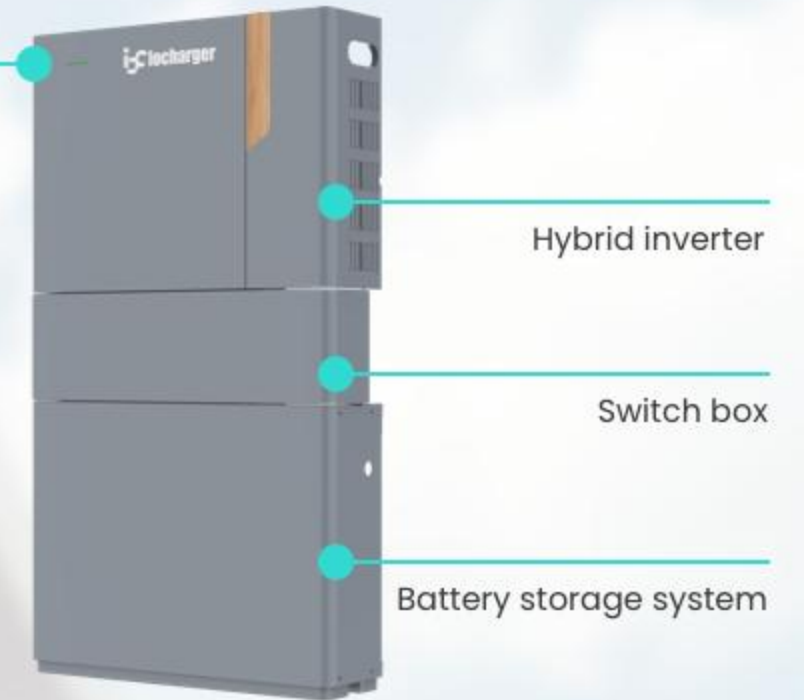


SPECIFICATION

| | |
|-------------------------|---------------------------|
| Model | IOC ESS |
| Max. Charging | 90% |
| Max. Discharge | ≥95% |
| Dimension(mm) | 1190x660x185(one set) |
| Protection Class | IP65 |
| Cycle Life | 10000 Cycles |
| Warranty | 10 Years Product Warranty |
| Certificate | CE, UN38.3 |
| Single Battery Capacity | 5.12 kWh |
| Color | ● Grey |

Status Indicator

- Blue: Always on, Blinking
- Green: Always on, Blinking
- Red: Always on, Blinking 1.5s/2s



All-in-one On-grid Lihub

All-in-one on-grid

- On-grid connection only
- High performance 3-level topology PCS, max efficiency 99.3%

Long Cycle life

- Integrated high-quality LFP cell with high cycle life > 6000 cycles
- Optimized thermal design, accurate temperature control, and air duct design ensure every cell always works in the most appropriate temperature range

Multiple standards support

- EN/IEC 62477-1, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019, EN 50549-1, G99, VDE-AR-N 4105, DIN VDE V 0124-100, AS 4777.2, IEC 62619

Easy to expand

- Seamless and modular design
- Each independent working cabinet can be connected in parallel to expand the total capacity of the energy storage system

Intelligent BMS

- Use efficient and intelligent algorithms
- More accurate SO-X prediction function

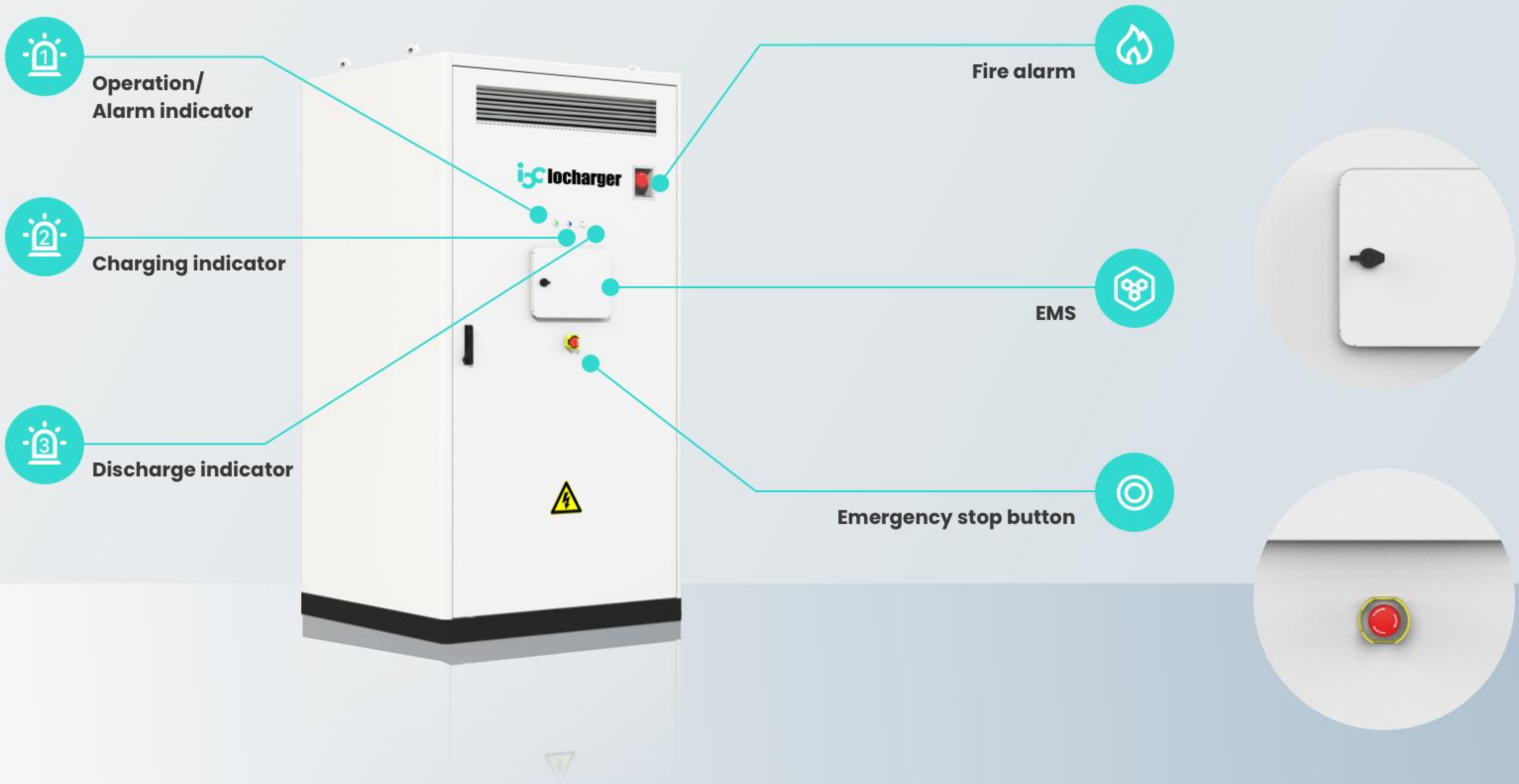
Active safety system

- Multi partition, defect isolation
- Pack & Double level whole cabinet fire protection technology

Intelligent distribution system

- Integrated AC/DC power distribution system
- 4-level controllable switch & passive protection





SPECIFICATION

| Model | IOC30EP96 | IOC30EP129 | IOC30EP161 | IOC30EP193 | IOC30EP225 |
|----------------------------------|-----------------------------|----------------|----------------|----------------|----------------|
| Cell parameters | LFP 3.2V/280Ah | | | | |
| Module configuration | 1P18S | | | | |
| Module rated voltage | 57.6Vdc | | | | |
| Module capacity | 16.128kWh | | | | |
| Module weight | 117kg | | | | |
| Cluster configuration | 6Modules+HVB | 8Modules+HVB | 10Modules+HVB | 12Modules+HVB | 14Modules+HVB |
| Cluster capacity | 96.7kWh | 129kWh | 161kWh | 193kWh | 225kWh |
| Cluster rated voltage | 345.6Vdc | 460.8Vdc | 576.0Vdc | 691.20Vdc | 806.4Vdc |
| Max.Charging/discharging power | 30kW/30kW | | | | |
| Max.Charging/discharging current | 100Adc/100Adc | 75Adc/75Adc | 60Adc/60Adc | 50Adc/50Adc | 45Adc/45Adc |
| Rated power | 30kW | | | | |
| Rated Current | 43.0A | | | | |
| Rated grid voltage | 230V/400V;3P+N+PE | | | | |
| Grid voltage range | -15%~+10% | | | | |
| Rated grid frequency | 50Hz/60Hz | | | | |
| Power factor | -0.8~+0.8 | | | | |
| Maximum efficiency | ≥90% | | | | |
| Charge and discharge rate | 0.31C | 0.23C | 0.18C | 0.15C | 0.13C |
| Discharge depth | 95%DOD | | | | |
| Battery cycle life | 8000 | | | | |
| Dimensions (W*D*H) (mm) | 800*1150*2100 | 1250*1150*2360 | 1250*1150*2360 | 1250*1150*2360 | 1250*1150*2360 |
| Weight | 1600kg | 1750kg | 2000kg | 2250kg | 2500kg |
| Degree of protection | IP55 | | | | |
| Fire Fighting System | Aerosol | | | | |
| Cooling method | Industrial Air Conditioning | | | | |
| Operating temperature | -25℃~55℃ | | | | |
| Communication protocol | ModBus-TCP | | | | |
| LCD | 10inch touch screen | | | | |

SPECIFICATION

| Model | IOC60EP129 | IOC60EP161 | IOC60EP193 | IOC60EP225 | IOC120EP225 |
|----------------------------------|-----------------------------|---------------|---------------|---------------|---------------|
| Cell parameters | LFP 3.2V/280Ah | | | | |
| Module configuration | 1P18S | | | | |
| Module rated voltage | 57.6Vdc | | | | |
| Module capacity | 16.128kWh | | | | |
| Module weight | 117kg | | | | |
| Cluster configuration | 8Modules+HVB | 10Modules+HVB | 12Modules+HVB | 14Modules+HVB | 14Modules+HVB |
| Cluster capacity | 129kWh | 161kWh | 193kWh | 225kWh | 225kWh |
| Cluster rated voltage | 460.8Vdc | 576.0Vdc | 691.20Vdc | 806.4Vdc | 806.4Vdc |
| Max.Charging/discharging power | 60kW/60kW | | | | 120kW/120kW |
| Max.Charging/discharging current | 140Adc/140Adc | 120Adc/120Adc | 100Adc/100Adc | 85Adc/85Adc | 140Adc/140Adc |
| Rated power | 60kW | | | | 120kW |
| Rated Current | 86.0A | | | | 172.0A |
| Rated grid voltage | 230V/400V;3P+N+PE | | | | |
| Grid voltage range | -15%~+10% | | | | |
| Rated grid frequency | 50Hz/60Hz | | | | |
| Power factor | -0.8~+0.8 | | | | |
| Maximum efficiency | ≥90% | | | | |
| Charge and discharge rate | 0.46C | 0.37C | 0.31C | 0.26C | 0.53C |
| Discharge depth | 95%DOD | | | | |
| Battery cycle life | 8000 | | | | |
| Dimensions (W*D*H) (mm) | 1250*1150*2360 | | | | |
| Weight | 1750kg | 2000kg | 2250kg | 2500kg | 2500kg |
| Degree of protection | IP55 | | | | |
| Fire Fighting System | Aerosol | | | | |
| Cooling method | Industrial Air Conditioning | | | | |
| Operating temperature | -25℃~55℃ | | | | |
| Communication protocol | ModBus-TCP | | | | |
| LCD | 10inch touch screen | | | | |

All-in-one hybrid

- On-grid, off-grid, solar connection available
- High performance 3-level topology PCS, max efficiency 99.3%

Long Cycle life

- Integrated high-quality LFP cell with high cycle life > 6000 cycles
- Optimized thermal design, accurate temperature control, and air duct design ensure every cell always works in the most appropriate temperature range

Multiple standards support

- EN/IEC 62109-1/2, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019, EN 50549-1, VDE-AR-N 4105, DIN VDE V 0124-100, IEC 62619

Versatile application

- Built-in functionalities such as peak shaving, demand management, demand response, power expansion, emergency backup power, etc
- Low noise, suitable for populated areas

Safe & Efficient

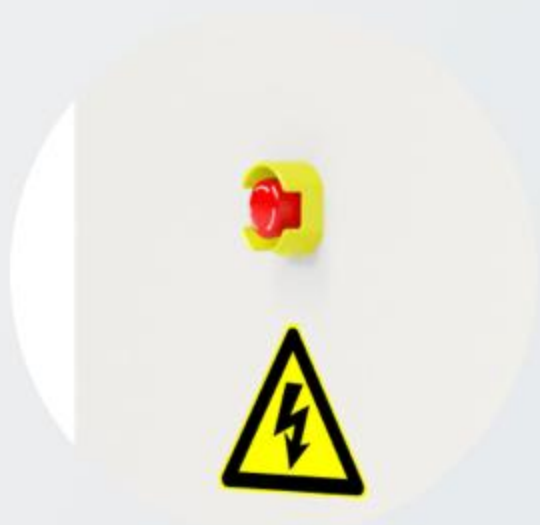
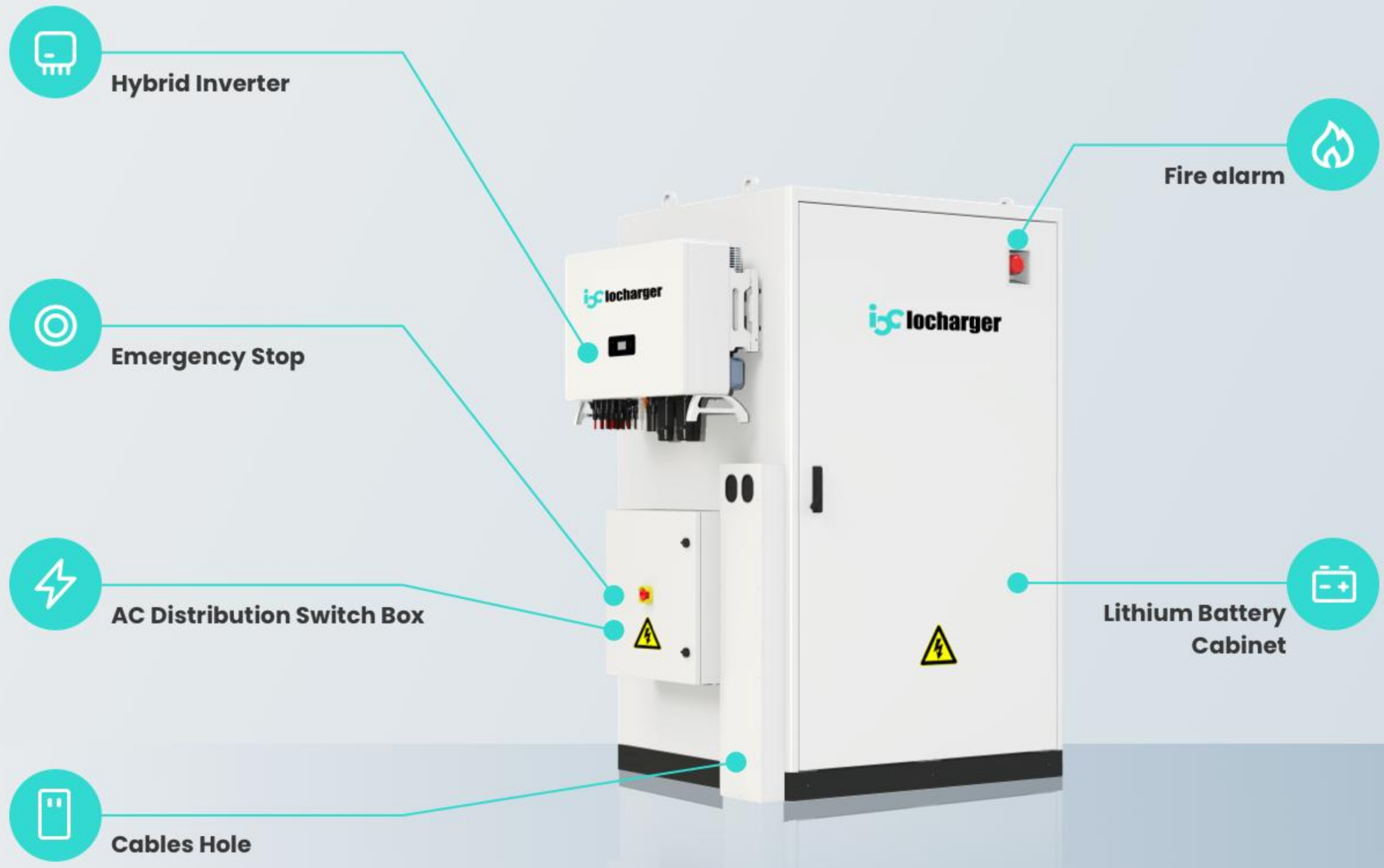
- Independent cabinet and modular battery design for increased safety
- Higher efficiency and longer life cycle. Double layer fire protection system with intelligent temperature control.

Easy to operate & maintain

- All-in-one modular solution allows for quick installation time and minimizes maintenance required for local failures
- Cloud EMS allows easy remote monitoring and control of all LiHub units.

All-in-one Hybrid Lihub





SPECIFICATION

| Model | IOC30EPH96 | IOC30EPH129 | IOC30EPH161 | IOC30EPH193 |
|---------------------------|------------------------------------|---------------------------------|---------------|---------------|
| Max.input power | 30kW | | | |
| Max input voltage | 1000V | | | |
| MPPT voltage range | 200-850V | | | |
| Max.input current | 30A*4 | | | |
| Cell parameters | LFP 3.2V/280Ah | | | |
| Module configuration | 1P18S | | | |
| Module rated voltage | 57.6Vdc | | | |
| Module capacity | 16.128kWh | | | |
| Cluster configuration | 6Modules+HVB | 8Modules+HVB | 10Modules+HVB | 12Modules+HVB |
| Cluster capacity | 96kWh | 129kWh | 161kWh | 193kWh |
| Cluster rated voltage | 345.6Vdc | 460.8Vdc | 576.0Vdc | 691.2Vdc |
| Rated power | 30kW | | | |
| Rated Current | 43.0A (@230/400V) | | | |
| Rated voltage | 220/380V;230/400V;240/415V;3P+N+PE | | | |
| Grid voltage range | -15%~+10% | | | |
| Rated grid frequency | 50Hz/60Hz | | | |
| Power factor | -0.8~+0.8 | | | |
| Apparent power | 30kVA | | | |
| Rated Current | 43.0A (@230/400V) | | | |
| Rated voltage | 220/380V;230/400V;240/415V;3P+N+PE | | | |
| Off-grid switching time | <20ms | | | |
| Maximum efficiency | ≥90% | | | |
| Charge and discharge rate | 0.31C | 0.23C | 0.18C | 0.15C |
| Discharge depth | 95%DOD | | | |
| Battery cycle life | 8000 | | | |
| Dimensions (W*D*H) | 800*1150*2100+ 800*300*620 (mm) | 1250*1150*2100+800*300*620 (mm) | | |
| Weight | 1600kg | 1750kg | 2000kg | 2250kg |
| Protection level | IP55 | | | |
| FFS | Aerosol | | | |
| Cooling method | Industrial air conditioner | | | |
| Operating temperature | -25℃~55℃ | | | |

SPECIFICATION

| Model | IOC50EPH145 | IOC50EPH161 | IOC50EPH177 | IOC50EPH193 |
|---------------------------|------------------------------------|---------------|---------------|---------------|
| Max.input power | 50kW | | | |
| Max input voltage | 1000V | | | |
| MPPT voltage range | 200-850V | | | |
| Max.input current | 30A*4 | | | |
| Cell parameters | LFP 3.2V/280Ah | | | |
| Module configuration | 1P18S | | | |
| Module rated voltage | 57.6Vdc | | | |
| Module capacity | 16.128kWh | | | |
| Cluster configuration | 9Modules+HVB | 10Modules+HVB | 11Modules+HVB | 12Modules+HVB |
| Cluster capacity | 145kWh | 161kWh | 177kWh | 193kWh |
| Cluster rated voltage | 518.4Vdc | 576.0Vdc | 633.6Vdc | 691.20Vdc |
| Rated power | 50kW | | | |
| Rated Current | 72.0A (@230/400V) | | | |
| Rated voltage | 220/380V;230/400V;240/415V;3P+N+PE | | | |
| Grid voltage range | -15%~+10% | | | |
| Rated grid frequency | 50Hz/60Hz | | | |
| Power factor | -0.8~+0.8 | | | |
| Apparent power | 50kVA | | | |
| Rated Current | 72.0A (@230/400V) | | | |
| Rated voltage | 220/380V;230/400V;240/415V;3P+N+PE | | | |
| Off-grid switching time | <20ms | | | |
| Maximum efficiency | ≥90% | | | |
| Charge and discharge rate | 0.34C | 0.31C | 0.28C | 0.26C |
| Discharge depth | 95%DOD | | | |
| Battery cycle life | 8000 | | | |
| Dimensions (W*D*H) | 1250*1150*2100+800*300*620 (mm) | | | |
| Weight | 1900kg | 2000kg | 2150kg | 2250kg |
| Protection level | IP55 | | | |
| FFS | Aerosol | | | |
| Cooling method | Industrial air conditioner | | | |
| Operating temperature | -25℃~55℃ | | | |

IOC LITE & IOC CSMS

Smart EV Charging & Energy Management Platform
Optimize and scale your EV charging networks



IOC LITE

A non-commercial platform with energy management, Family/Group management and device management

- Device management including charging station, gateway and Energy Storage System, etc.
- Advanced Energy Management Solution
- Separate web portal for operator and user

IOC Lite mobile app for one-stop management

- Family and Company group management
- Charging schedules and reservation management
- Integration with Solar & Battery
- Plug and play support
- Bluetooth offline management
- Fast, Eco, Eco+ EV charging mode available

IOC CSMS

A powerful commercial platform based on OCPP 1.6 J and SaaS structure

- Cloud-based platform
- Flexible billing system
- Lower maintenance costs
- Load balancing and smart charging management
- Operator and Sub-operator management
- Charging station sharing externally to increase revenue
- Vehicle management to separate private and company vehicle billings
- Multiple voucher options
- Multiple price plans

