iocharger

EV Charging & Energy Solutions

OCPP 2.0.1 & ISO15118

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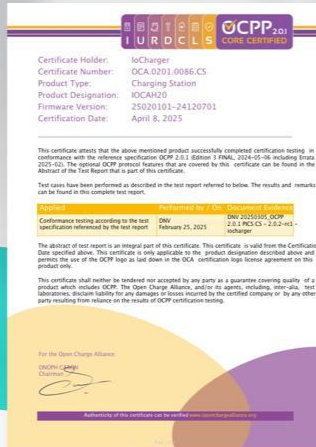
Xiamen Galaxy Camphol Technology Co., Ltd.

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 Full OCPp 2.0.1 certified companies in April 2025, 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 OCPP 2.0.1 certified.
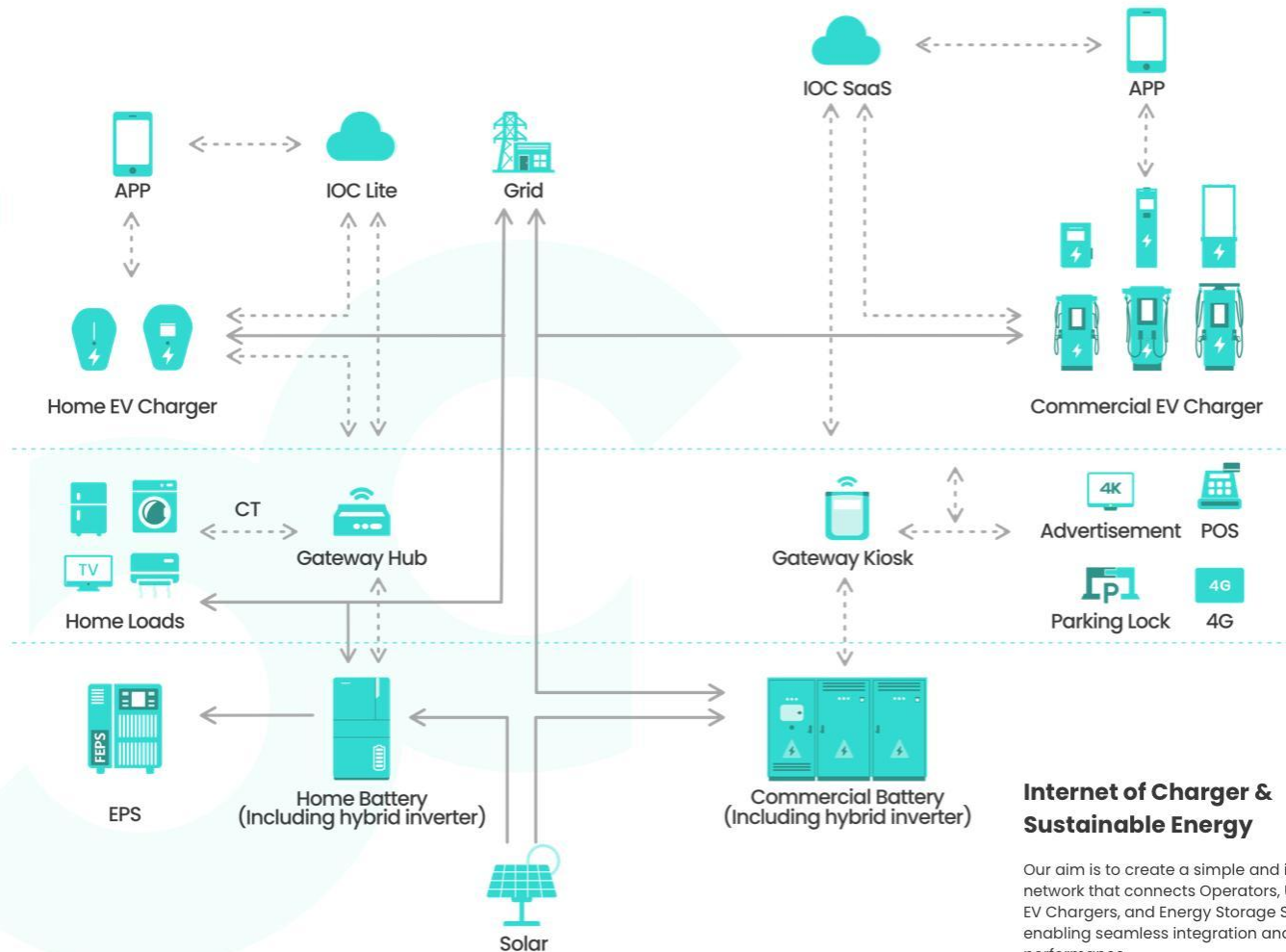
iocharger is committed to innovation, quality, and contributing to a greener, more sustainable world.

IOCHARGER'S WORLD'S 1ST

OCPP 2.0.1 and Hubject ISO15118 PnC certified
EV Charging solutions

APP

IOC Lite

Grid

IOC SaaS

APP

Home EV Charger

Commercial EV Charger

Home Loads

CT

Gateway Hub

Gateway Kiosk

Advertisement

POS

Parking Lock

4G

EPS

Home Battery
(Including hybrid inverter)

Commercial Battery
(Including hybrid inverter)

Solar

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.

IOCAH30

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)	IOCAH30-7S/11S/22S(CE) IOCAH30-7T/11T/22T(CE)
RCD	Integrated, 20mA CCID(UL)	30mA AC & 6mA DC(CE)
Current Output	1-Phase 32A/40A Max	1-Phase/3-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

Socket or Tethered

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

Logo

White label support

RFID Card Reader (Optional)
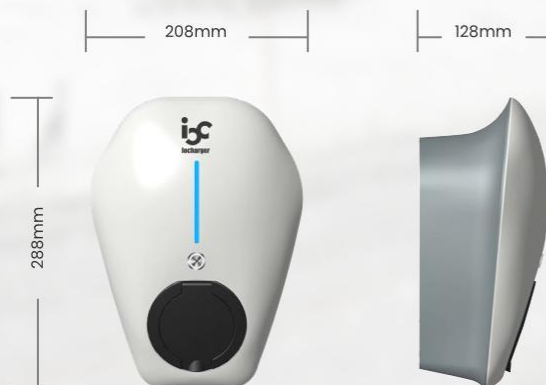
ISO14443 Mifare RFID card support

Multi-Functional Physical Button

Program the button for different functions like start/stop charging

Bluetooth Integration

Enhance user experience in challenging environments like underground parking, apartments etc

208mm | 128mm

288mm

208mm | 1325mm

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

SPECIFICATION

Model	IOCAH28-32/40/50(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
800/1000nits 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-2 socket with shutter
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

288mm

141mm

288 mm

380mm

1325mm

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, ISO15118 Plug&Charge	
Mounting Type	Wall mount (default) / Floor post (optional)	
Dimension(mm)	400x270x130	
Application	Residential / Commercial	
Network Connectvity	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-2 socket with shutter
Type-1 SAE J1772 5m cable

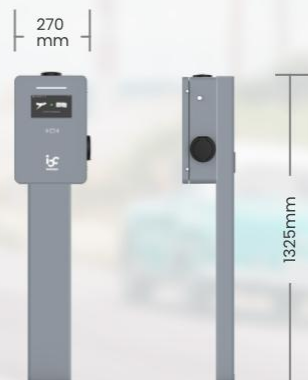### RFID Card Reader
ISO14443 Mifare RFID card support

Multi-Functional Physical Button
Program the button for different functions like start/stop charging

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

270mm · 130mm · 400mm

270 mm · 1325mm

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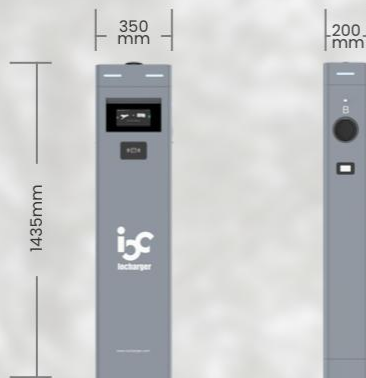
POS terminal integration (optional)
- Nayax, Payter, PAX integration to support local credit card payment
- Credit card, RFID card, Mobile app, Plug&Charge(ISO15118) payment

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

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SPECIFICATION

Model	IOCAP26-7S/7T	IOCAP26-22S/22T
Current Output	32A Max ×2	
Protocol	OCPP 1.6J, OCPP 2.0.1, ISO15118 Plug&Charge	
Dimension(mm)	1435x350x200	
Application	Commercial	
Network Connectvity	Ethernet, Wi-Fi, 4G	
Meter	MID Certified Meter x 2	
RCD	Type-B RCCB x 2	
Enclosure Rating	IP55, IK10	
Color	● Grey	

350 mm

200 mm

1435mm

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-2 socket with shutter
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

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

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Internet of Charger & Sustainable Energy

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

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

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

Internet of Charger
& Sustainable Energy

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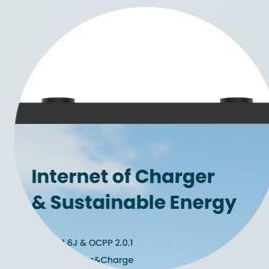· POS Terminal Integrated

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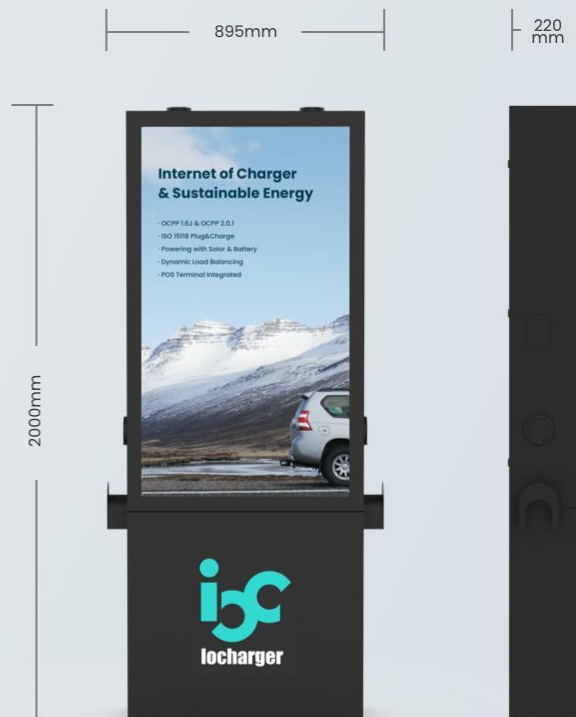IK10 protection class

Cable holder
Hanging charging cable

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Internet of Charger
& Sustainable Energy
· 6J & OCPP 2.0.1
&Charge

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, Celluar	
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	

895mm

220mm

2000mm

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

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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)	1900x1055x470	2053x1092x771
Ingress Protection	IP55, IK10	
Cooling	Forced air	
Charging Connector Capacity	200A, 250A or 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 ensures the safety

Cable Management System

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

Installed on charger

Independent POS payment gateway

1055mm

1900mm

470 mm

(IOC060NY2, IOC120NY2)

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

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SPECIFICATION

Output Power	30kW-60kW
Output Voltage	150-1000V DC
Efficiency	≥94%
Mounting Type	Wall Mount (default) / Floor Post (optional)
Dimension(mm)	800x690x357
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

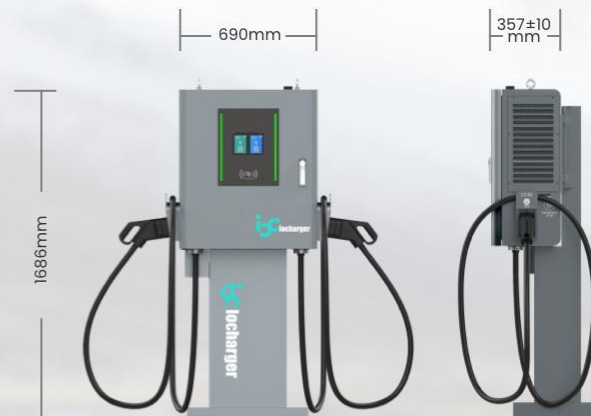Convenient inspection and maintenance of internal components

RFID Card Reader

ISO14443 Mifare RFID card support

Independent POS payment gateway

690mm

357±10 mm

1686mm

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: 2200x800x940 With CMS: 2374x1050x940
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

800mm

2200mm

Without CMS

1050mm

2374mm

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 GBT	

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

750mm

640mm

1850mm

IOC ESS

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
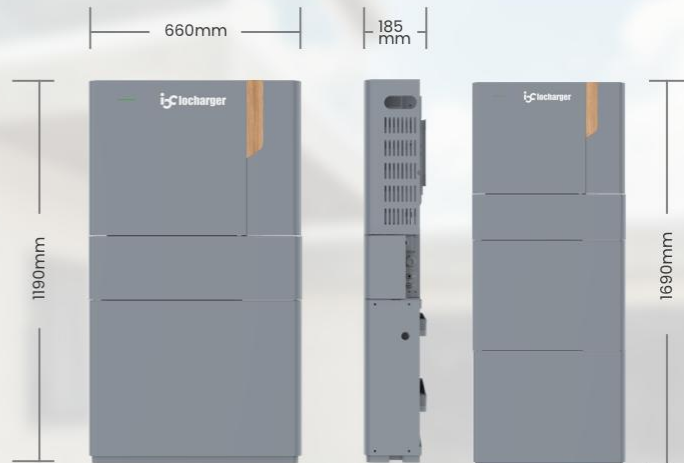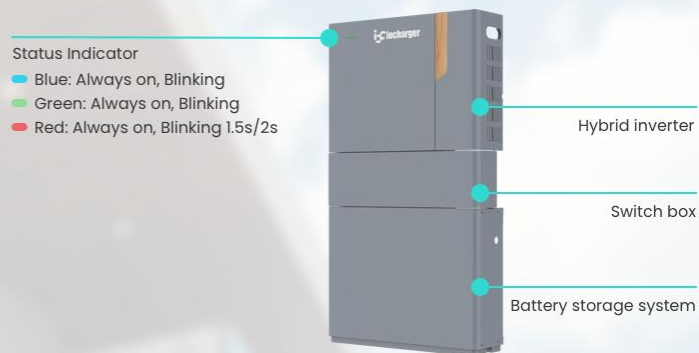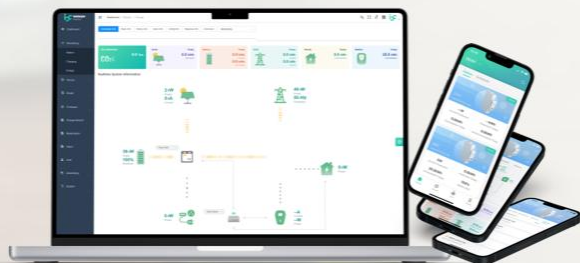- Integration with EV Charger for energy management

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

Hybrid inverter

Switch box

Battery storage system

660mm

185 mm

1190mm

1690mm

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

Operation/
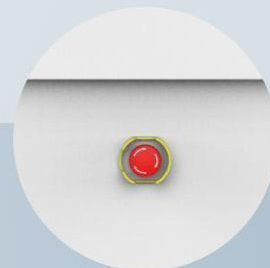Alarm indicator

Charging indicator

Discharge indicator

Fire alarm

EMS

Emergency stop button

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

Hybrid Inverter

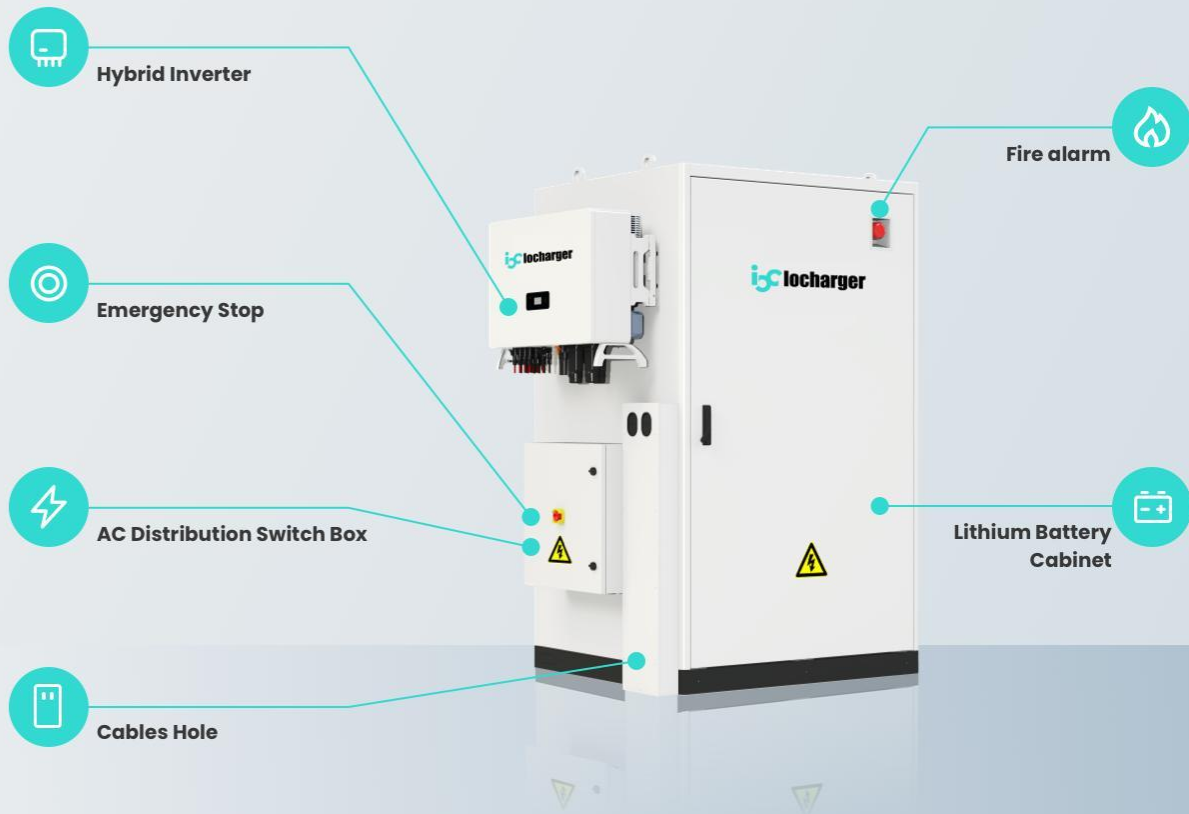Emergency Stop
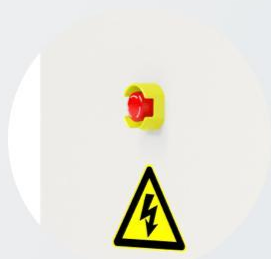
AC Distribution Switch Box

Cables Hole

Fire alarm

Lithium Battery Cabinet

i⊃C locharger

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