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LIVOLTEK EV CHARGER SOLUTION



POWER YOUR LIFE WITH GREEN ENERGY

COMPANY PROFILE

LIVOLTEK, a core brand of Hexing Group (Shanghai Stock Exchange listed), is a global leader in sustainable energy innovation. With operations spanning over 90 countries and 16 manufacturing plants worldwide, LIVOLTEK leverages its robust infrastructure and global network to deliver high-quality products and exceptional service efficiency.

The company provides end-to-end energy solutions tailored to residential, commercial, and industrial applications, offering advanced products includes PV inverters, hybrid inverters, energy storage systems, EV chargers, and intelligent remote management platforms.

 **16**
Global
Factories

 **37**
Oversea
Subsidiaries

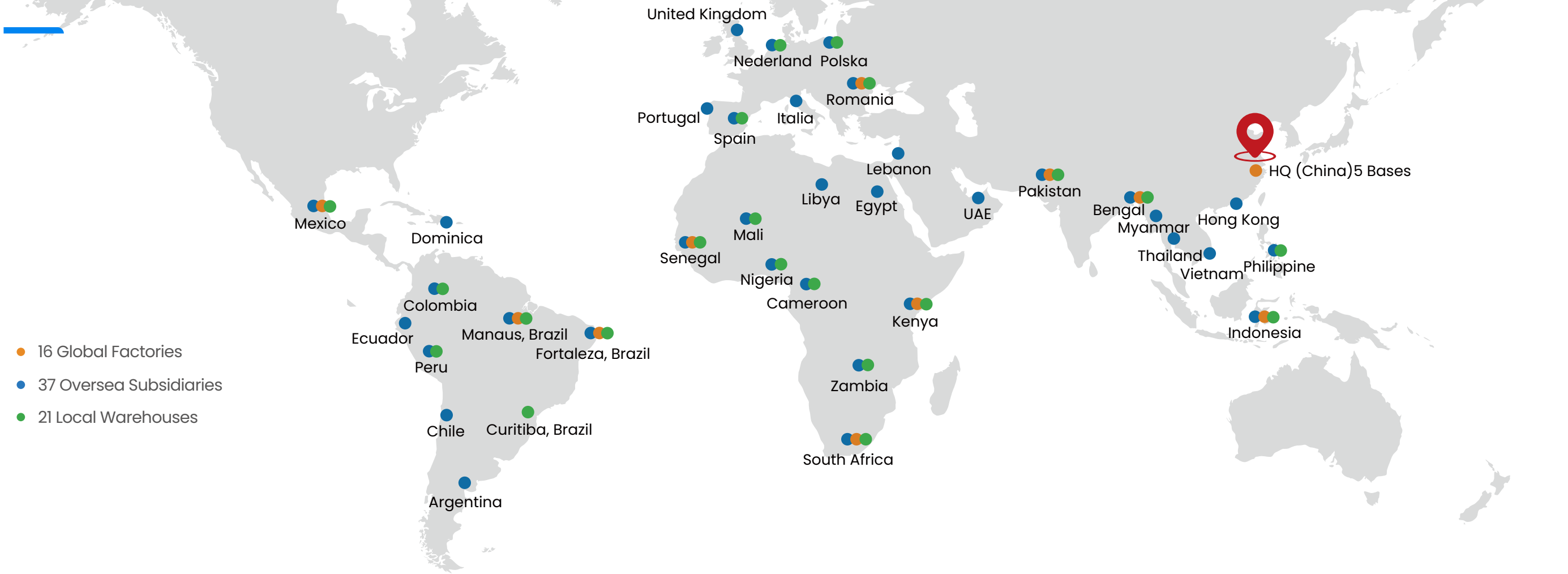
 **21**
Local
Warehouses



Backed by Hexing Group's decades of expertise in electronics and energy systems, LIVOLTEK serves a diverse customer base that includes utility providers, energy corporations, municipal governments, public service sectors, community projects, and EPC partners and installers.

By combining cutting-edge innovation with scalable, reliable solutions, LIVOLTEK continues to empower organizations and communities worldwide in their transition to sustainable energy ecosystems.

GLOBAL SERVICE



HEXING-Europe



HEXING-Asia



HEXING-Latin America



HEXING-Africa

Product Portfolio — CHARGER

AC Charger



Robot Home AC Charger
7/11/22kW



Atom AC Charger
7/11/22kW



BUSH Series Business AC EV Charger
2*7.3kW 2*22kW

DC Charger



MotionCompact DC Wallbox
15/20/30/40/60kW

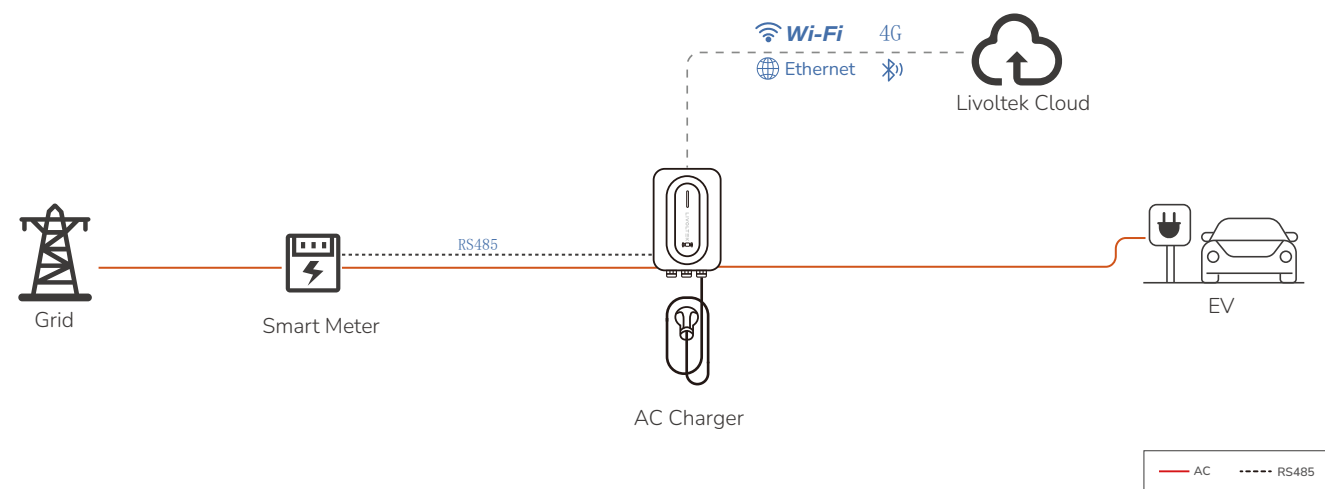


MotionFast DC Charging Station
MF 60~240kW

Residential AC Charger Solution

- Dynamic charging solution that responds to power generation and consumption in real time
- Maximizes charging efficiency
- Plug and charge, with remote control and scheduled charging
- No need to change existing electricity billing arrangements

Residential AC Charger Solution 7/11/22kW



Related Products

Robot
Home AC Charger



Single-phase: 7.3kW
Three-phase: 11/22kW

Atom HomeAC Charger



Single-phase: 7.3kW
Three-phase: 11/22kW

Smart Meter



LHE12D

Smart Meter

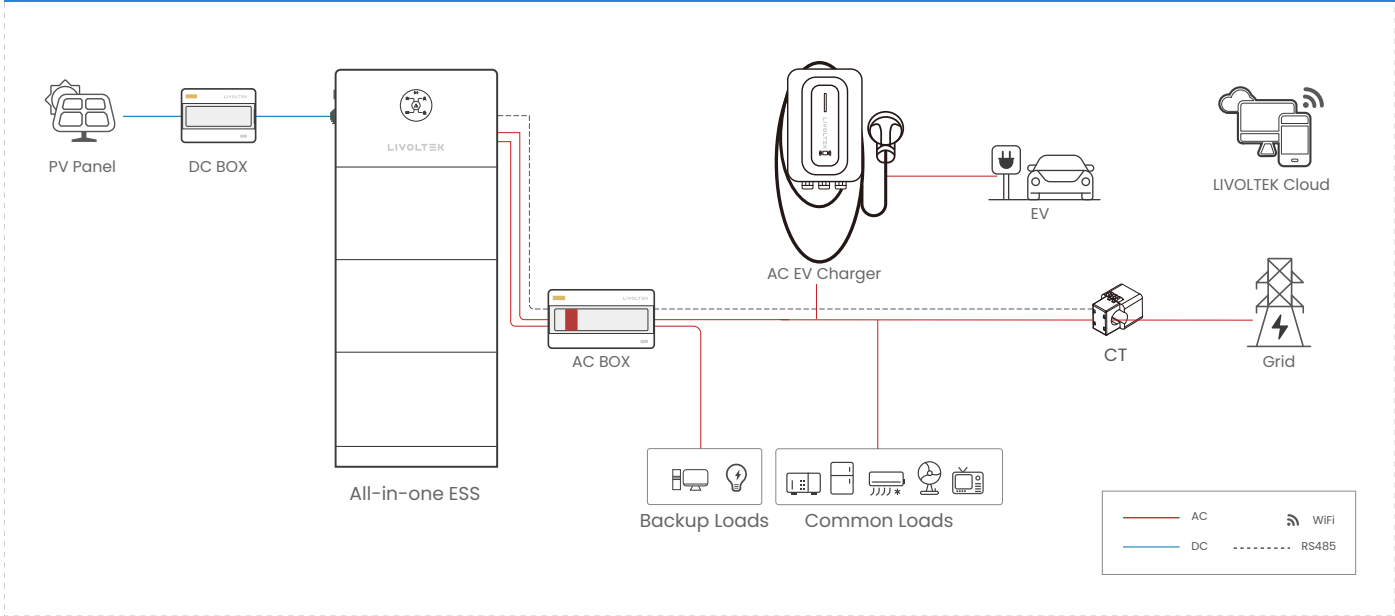


LHE34D

Residential PV+ESS+AC Charger Solution

- Intelligent dynamic load regulation •
- Household energy self-cycling, minimizing grid consumption •
- High reliability, off-grid peace of mind •
- Use LIVOLTEK solar energy storage system for eco-friendly, full-charge EV power •

Residential PV-Storage-Charging Solution 7/11/22kW



Related Products

Robot Home AC Charger



Single-phase: 7.3kW
Three-phase: 11/22kW

Atom Home AC Charger



Single-phase: 7.3kW
Three-phase: 11/22kW

All-in-one ESS



iPower HES1-3-6KS2

Livoltek Cloud



My Livoltek
(Web & APP)

Robot Home AC Charger

Single Phase:7.3kW Three Phase: 11kW/22kW

The LIVOLTEK Smart EV Charger is the most cutting-edge smart charger available for wall and column installation. It is compact in size, exquisite in appearance, and easy to install. Thanks to its user-friendly APP, it is easy for users to charge independently and economically. It's surely the best choice for passenger vehicle owners to charge their vehicles by taking the advantage of the time of use tariff and PV system.

Type2

PV Charging

- Livoltek EV chargers can be connected to all existing photovoltaic systems, allowing for 100% use of renewable energy for vehicle charging.

Dynamic Load

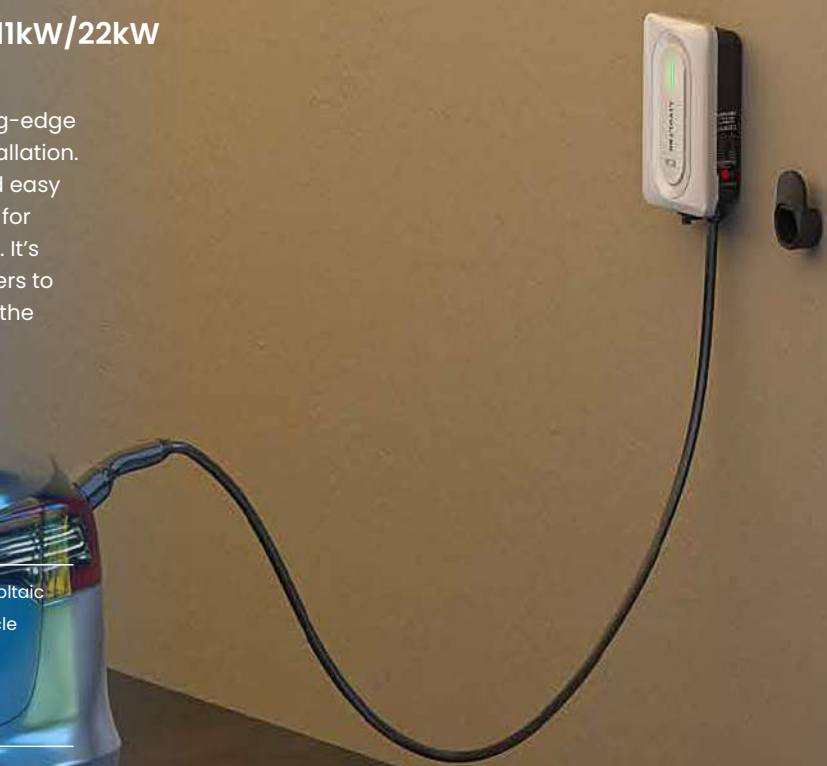
- 3 charging modes: Fast, Dynamic, ECO.
- Utilize low electricity rate periods to reasonably arrange vehicle charging times to reduce charging costs.

Safe & Reliable

- Internally integrated 6mA DC RCD ensures protection against overload, grounding, and surge for the equipment.
- IP54 provides high adaptability.

OTA Remote Access

- My Livoltek APP allows you to control your charger anytime, anywhere, and supports remote updates via OTA.



Robot Home AC Charger

Single Phase:7.3kW Three Phase: 11kW/22kW

AC CHARGER

Model	R3B21E1E R3B21B1E	R3B03E1E R3B03B1E	R3B23E1E R3B23B1E
Product Name	Single-phase AC Charger	Three-phase AC Charger	Three-phase AC Charger
Input/Output			
Rated Power	7.3kW	11kW	22kW
Rated Voltage	230Vac±10%	400Vac±10%	400Vac±10%
Rated Frequency	50Hz/60Hz		
Current Range	6 ~ 32A	6 ~ 16A	6 ~ 32A
Charging Interface Type	Type 2/5m		
Specifications of Incoming Cables	3*6mm²	5*2.5mm²	5*6mm²
Basic Features			
User Authorization	Plug and Charge, MyLivoltek APP & RFID		
Cooling	Natural Cooling		
Operating Temperature	-30 ° C ~ 50 ° C		
Storage Temperature	-40 ° C ~ 70 ° C		
Operating Humidity	5% ~ 95%RH		
Operating Altitude	≤3000m(>2000m Load reduction)		
IP Degree	IP66		
Dimension (W*H*D)	212*320*90mm		
Weight (KG)	Net Weight: 3.5kg Gross Weight: 5.3kg	Net Weight: 3.5kg Gross Weight: 5.3kg	Net Weight: 3.5kg Gross Weight: 5.3kg
Package(W*H*D)	(L=490) X (D=290) X (H=240) mm		
Way of Installation	Wall Mounting (Column Optional)		
Energy Management	Support		
Standby Power Consumption	<5W		
Other Features			
Status Indication	3 Color LED		
Firmware Upgrade	Local / OTA		
Way of Communication	Bluetooth, Wi-Fi & Ethernet /4G		
Emergency Stop Protection	Optional		
Save Charging Record When Power Off	Support		
Electricity Measurement	Build-in Metering Onboard		
External Communication	RS485/AD/RJ45		
Monitoring	My Livoltek Cloud		
Communication Protocol	OCPP 1.6J Optional		
Protection Function			
Residual Current Protection	30mA AC/6mA DC RCD Internal		
Multiple Protection	With Over Voltage Protection, Under Voltage Protection, Overcurrent Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check and Other Multiple Protection Functions		
Standard			
EMC	IEC-61851-21-2-2018		
Safety	IEC-61851-1-2017		

Atom Home AC Charger

Single Phase:7.3kW Three Phase: 11kW/22kW

The LIVOLTEK Smart EV Charger is the most cutting-edge smart charger available for wall and column installation. It is compact in size, exquisite in appearance, and easy to install. Thanks to its user-friendly APP, it is easy for users to charge independently and economically. It's surely the best choice for passenger vehicle owners to charge their vehicles by taking the advantage of the time of use tariff and PV system.

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Dynamic Load

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Safe & Reliable

- Internally integrated 6mA DC RCD ensures protection against overload, grounding, and surge for the equipment.
- IP54 provides high adaptability.

OTA Remote Access

- My Livoltek APP allows you to control your charger anytime, anywhere, and supports remote updates via OTA.



Atom Home AC Charger

Single Phase:7.3kW Three Phase: 11kW/22kW

AC CHARGER

Model	A0070230E11	A0110400E11	A0220400E11
Product Name	Single-phase Residential AC Charger	Three-phase Residential AC Charger	Three-phase Residential AC Charger
Input/Output			
Rated Power	7.3kW	11kW	22kW
Rated Voltage	230Vac±10%	400Vac±10%	400Vac±10%
Rated Frequency	50Hz/60Hz		
Current Range	6 ~ 32A	6 ~ 16A	6 ~ 32A
Charging Interface Type	Type 2/5m		
Specifications of Incoming Cables	3*6mm²	5*2.5mm²	5*6mm²
Basic Features			
User Authorization	Offline Charging, MyLivoltek APP (RFID Optional)		
Cooling	Air Cooling		
Operating Temperature	-30℃ ~ 50℃		
Storage Temperature	-40℃ ~ 70℃		
Operating Humidity	5% ~ 95%RH		
Operating Altitude	≤2000m		
IP Degree	IP54		
Dimension (W*H*D)	170*400*110mm		
Weight	3.7kg	3.8kg	5.1kg
Way of Installation	Wall Mounting (Column Optional)		
Energy Management	Support		
Standby Power Consumption	<5W		
Other Features			
Status Indication	3 Color LED		
Firmware Upgrade	Local / OTA		
Way of Communication	Bluetooth (Wi-Fi & Ethernet / 4G Optional)		
Emergency Stop Protection	Support		
Save Charging Record When Power Off	Support		
Electricity Measurement	Build-in Metering Chip		
External Communication	RS485/CAN		
Monitoring	My Livoltek Cloud		
Protection Function			
Residual Current Protection	6mA DC RCD Internal		
Multiple Protection	With Over Voltage Protection, Under Voltage Protection, Overcurrent Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check and Other Multiple Protection Functions.		
Standards			
EMC	IEC-61851-21-2-2018		
Safety	IEC-61851-1-2017		

CE UK RoHS

Semi Public/Public without DLM Solution

Semi Public/Public with DLM Solution

- Mature and reliable operational billing system solution
- Smart management, intelligent scheduling, maximizing equipment utilization and operational revenue
- Intelligent and customizable power dispatching strategy
- Ensuring grid safety and equipment lifespan

Delivery Center

Related Products

Robot Home AC Charger



7.3/11/22kW

Atom Home AC Charger



7.3/11/22kW

BUSH Business AC Charger



2*7.3/2*22kW

DC EV Charger



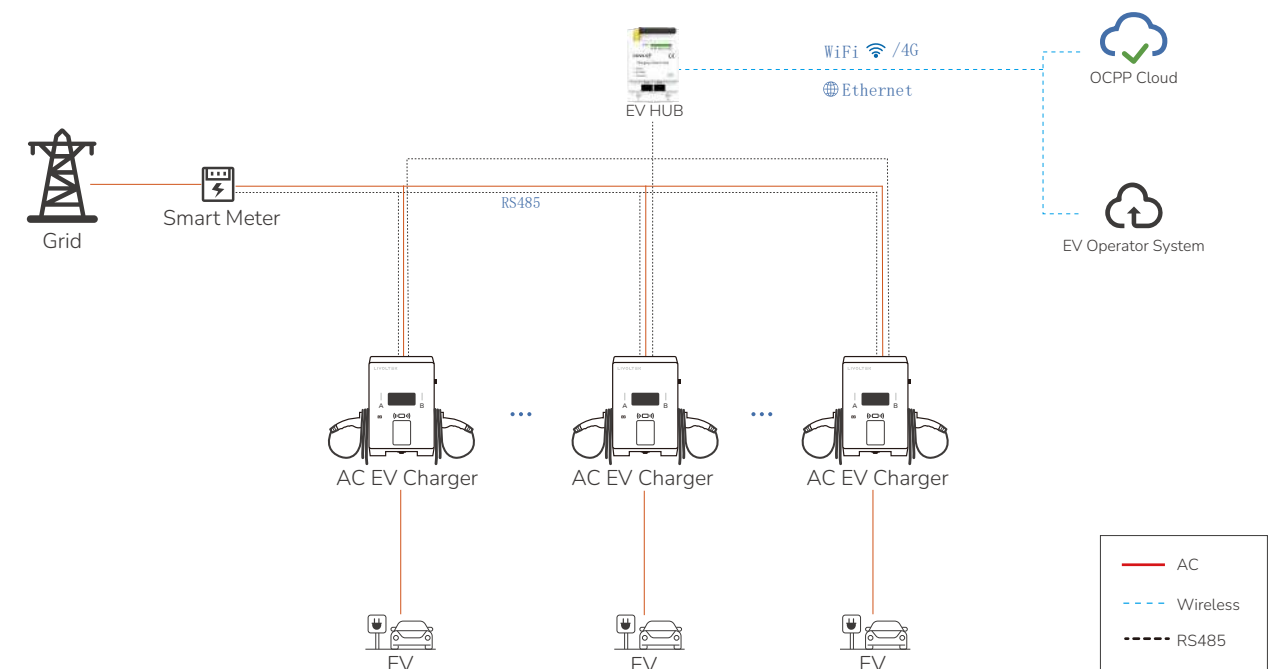
MC 15~60kW

MotionFast DC Charging Station

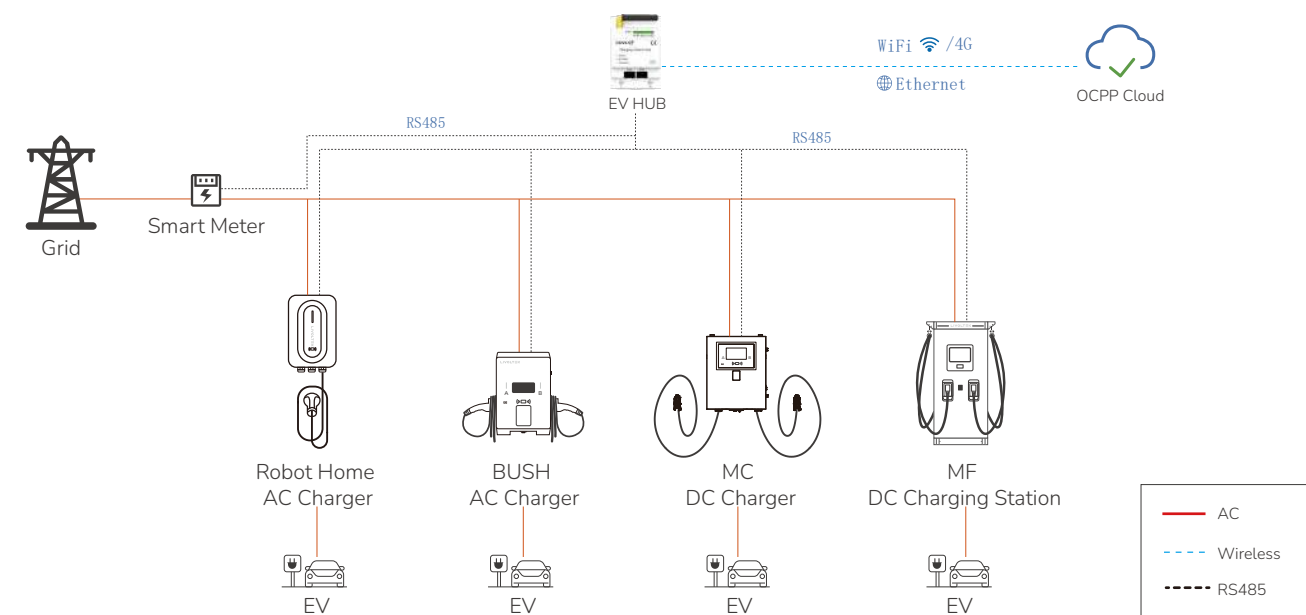


MF 60~240kW

Semi Public/Public without DLM Solution



Semi Public/Public with DLM Solution



* Dynamic manage 32 parallel ev chargers including AC and DC chargers

* When multiple charging piles are used in parallel, dynamic load balancing management is carried out through the EV HUB and DLM functions.

BUSH Business AC EV Charger

Single Phase: 2*7.3kW Three Phase: 2*22kW

The LIVOLTEK BUSH series of AC chargers are designed for public operations. They are IP55 rated and available in ground and wall mounting options for a variety of indoor and outdoor environments. All chargers have built-in smart meters and can also support other external meters or dynamic load balancing terminals for integration with advanced energy systems for smart buildings and car parks.

- Type 2s
- Type2

Flexible Application

- Connector or Socket Outlet Selectable
- Integrated ISO 14443 RFID reader

Powerful Communication

- Multi connectivity access
- OCPP 1.6J Protocol (subsequent free upgrade 2.0.1)
- External Dynamic Load Response Ready
- POS Terminal Optional

Precise Monitoring

- DLM function paired with EV HUB, achieves dynamic load balancing for the system.
- Build-in KWH meter

User-Friendly Design

- Integrated leakage current monitoring (AC 30mA + DC 6mA)
- IP55 Outdoor Design
- 7-inch high-definition display
- Groud mouting and wall mouting optional

BUSH Business AC EV Charger

AC CHARGER

Single Phase: 2*7.3kW Three Phase: 2*22kW

Model	BIU2ME2SOM0S	BIU2ME2SOP0S	BIU2ME2EOM5S	BIU2ME2EOP5S	BIU2IE2SOM0S	BIU2IE2SOP0S	BIU2IE2EOM5S	BIU2IE2EOP5S
Product Name	BUSH 2S22 BUSH 2S22-mini		BUSH 2C22 BUSH 2C22 - Mini		BUSH 2S07 BUSH 2S07 - Mini		BUSH 2C07 BUSH 2C07 - Mini	
Input/Output								
Rated Power	2*22 kW				2*7.3 kW			
Rated Input Voltage	400Vac				230Vac			
Input Voltage Range	400Vac±10%				230Vac±10%			
Rated Output Current	32A							
Output Current Range	6A~32A							
Rated Frequency	50/60Hz							
Grid Architecture	TN-C-S / TN-S / TT							
Charging Interface	Type 2 Socket (Type2s Socket Optional)	Type 2 Connector 5m Cable			Type 2 Socket (Type2s Socket Optional)		Type 2 Connector 5m Cable	
Connection Mode	Case B	Case C			Case B		Case C	
KWH Meter	Build-in MID certify meter, class B							
Input/Output								
Leakage Current Protection	Standard: TypeA RCBO+ 6mA DC UK Version: PEN Support Customized: TypeB RCBO Optional							
Surge Protection	Support							
Overvoltage Protection	Support							
Undervoltage Protection	Support							
Overcurrent Protection	Support							
Grounding Protection	Support							
Short Circuit Protection	Support							
Over Temperature Protection	Support							
Short cricuit protection	Support							
Residual Current protection	Support							
General Data								
Dimension (W*H*D)	Wall mounting: 400×684×240 mm Column mounting: 400*1484*240 mm							
Net Weight	Wall mounting: ≤23.5 kG Column mounting: ≤41 kG							
Installation Mode	Wall mounting or Column mounting							
IP Degree	IP55							
IK Degree	IK10							
Cooling	Natural cooling							
Working Temperature	-30°C ~ 50°C							
Storage Temperature	-40°C ~ 70°C							
Working Humidity	5% ~ 95% RH							
Working Altitude	≤2000 m							
Standby Power	<10W							
User Interface	7" Touch Screen; Charging LED Indicators							
Connectivity	Bluetooth, Ethernet, WiFi/4G (optional)							
Power Management	Support							
Firmware Update	Local / OTA							
User Authorization	RFID(ISO 14443), APP, Credit card(optional)							
Local Cache	Charging Transcations, Logs							
External Communication	RS485 / CAN							
Communication Protocol	OCPP 1.6 J							
General Data								
Safety	IEC-61851-1							
EMC	IEC-61851-21-2							

Motion Compact DC Wallbox

MC 15/20/30/40/60kW

LIVOLTEK Motion Compact Series DC Wallbox (MC series) is easy to install with compact design, provides a larger and more constant charging current than AC wallbox. More universal, more efficient, adding to client's loyalty with EV charging for your business.

- CCS1
- CCS2

Product Benefits

- Compact DC wallbox design, easy to install, less space requirement .
- Connect any backend based on OCPP 1.6J
- Pedestal & wall mounted selestable
- Charging cable management system selectable
- POS terminal selectable

MOTION Compact DC Wallbox

MC 15/20/30/40/60kW

DC CHARGER

Model	Motion Compact DC Wallbox				
Charging					
Charging Mode	Mode4 EV Chagring				
Rate Output Power	15kW	20kW	30kW	40kW	60kW
Output Voltage	150 - 1000Vd.c				
Max Output Current	50A	65A	100A	133A	150A or 200A customized
Number of Outputs	1 connector			1 or 2 connector	
Connector Type	CCS2			CCS2/CCS2 + CCS2/CCS2 + CCS1	
Peak Efficiency	≥97%				
AC Input					
Earthing System	TN-C TN-S TN-C-S TT				
Input Voltage	400Va.c. ± 10% (3P+N+PE)				
Input Frenquency	50 / 60Hz				
AC.Rated Input Current	24A	32A	48A	64A	96A
AC.Max Input Current.	27A	36A	54A	71A	108A
Power Factor	≥0.99 (@full load)				
THDi	< 5% (@ full load)				
Min. connection cross-section	16mm²			35mm²	
User Interface					
Status Indication	RGB LED, 10.1' touch screen				
Connectivity	4G, Ethernet 10/100Base-Tx;				
Communication Protocols	OCPP 1.6J				
User Authentication	APP, RFID card, Credit card (Payter Apollo)				
Features					
SPD	SPD II				
RCD	Type A RCD				
OVC.Category	OVC III				
Multiple Protection	Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Current Leakage Protection, OverTemperature Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check, Insulation Detection and Other Multiple Protection Functions.				
Environmentat Noise	< 70dB @1m, 25°C				
Environmental					
Operating Temperature	-30°C ~ +55°C (Derating @50°C)				
Storage Tmeperature	-40°C ~ +70°C				
Operating Altitude	≤ 2000m				
Humidity	5% - 95% relative				
Mechanical					
IP & IK Rating/IP & IK	IP55; IK10				
Casing	SGCC				
Charing Cable Length	5m Standard (including connector); 7m Customized				
Type of installation	Wall mounting or Pole mounting				
Weight	charger: ≤80kg			≤110kg	
	Pole: ≤30kg(excluding cable management system)				
Dimensions(WxHxD)	charger: 650 x 800 x 260mm pole: 370 x 722 x 330mm (excluding cable management system)				
Standards					
Safety	IEC 61851-1, IEC-61851-23, IEC-61851-24, IEC 62196-1, IEC 62196-3, 2014/35/EU				
EMC	IEC 61851-21-2 Class A, 2014/30/EU				
RED	2014/53/EU				
RoHS	2015/863/EU, 2011/65/EU				
Communication	DIN 70121, ISO 15118-1, ISO 15118-2, ISO 15118-3				
Other	Modem 4G complies with CE/RED				

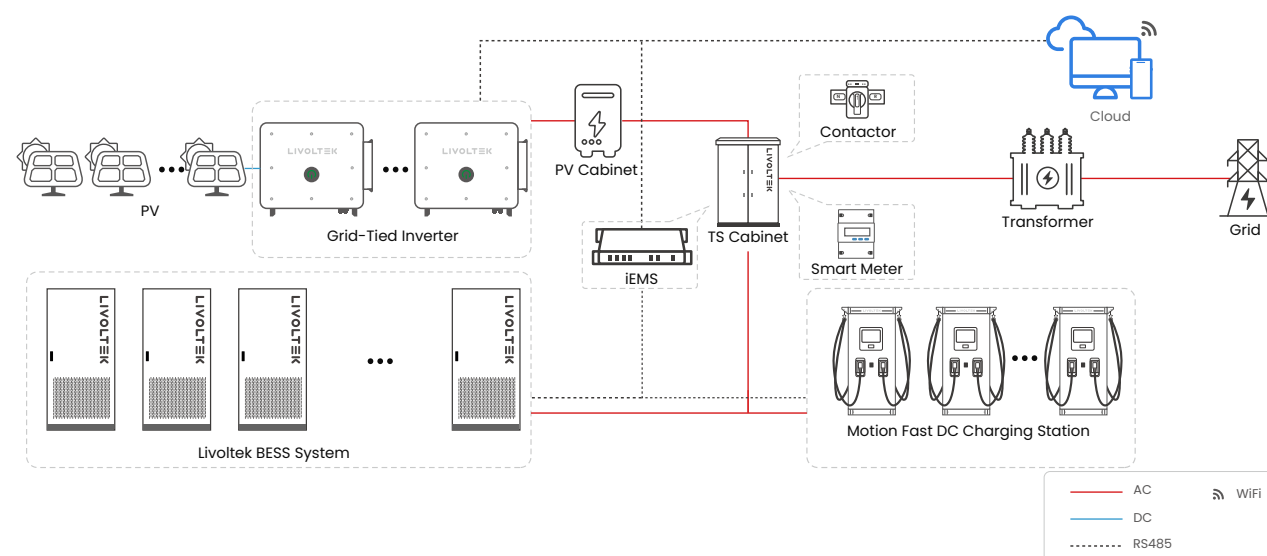


Solar-ESS-Charging System

- Worry-free expansion to eliminate capacity anxiety
- Smart operation with peak shaving and valley filling to reduce electricity costs
- Intelligent and reliable, ensuring key replenishment services
- Source-grid-load-storage coordination to profit from grid dispatch responses



Solar-ESS-Charging System



Related Products

MotionFast
DC Charging Station



MotionFast 60~240kW

Grid-tied Inverter



GT3-75~125kW

Commercial
& Industrial ESS



BESS-125kW/261kWh

IEMS



IEMS

MotionFast DC Charging Station

60/90/120/150/180kW
*with ACE30kW power module

MF stand-alone DC charging station has a maximum output of 180kW for quick and flexible charging. The LIVOLTEK stand-alone fast charging station features two DC outputs and can be configured with CCS2 plugs. It also includes an intelligent cable management system.

CCS2

Product Benefits

- Future-proof design via open standards, OCPP 1.6J support remote update to OCPP2.0.1 protocol.
- CE and RoHS certification, suitable for all European countries need
- Interaction via 10.1"color touch display
- Multi user authorization with RFID, APP

MotionFast DC Charging Station

60/90/120/150/180kW

CHARGING STATION

Model	Motion Fast DC Charging Station
Input/Output Data	
Rated Power	60/90/120/150/180 kW
AC Connection	3P+N+PE
AC Input Voltage	400 Vac ± 10%
Rated Frequency	50/60 Hz
Power Factor	≥0.99 at nominal load
Output Voltage Range	150 ~ 1000Vdc
Output Current	300 A
Peak Efficiency	≥96%
Basic Features	
Environment of use	Indoor / Outdoor
User Authorization	RFID (ISO 14443 A/B), APP
Working Noise	≤ 65dB （Nominal Load, Measured at 1m from the front of the charger）
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-30°C ~ +70°C
Working Humidity	5% ~ 95% RH
Working Altitude	≤ 2000 m
IP / IK Degree	IP55 / IK10
Cooling	Force Fan Cooling
Dimension(W*H*D)	750*1850*625 mm (with cable management system)
Weight	≤ 380kg
Length of Charging Cable	5m / 7m
Standard Warranty	2 years, extend +1 year / +2 years
Other Features	
Connectivity	4G / Ethernet
External Communication	RS485 / RS232 / CAN
Communication Protocol	OCPP 1.6J, support update to OCPP 2.0.1
User Interface	10.1" Touch Screen, Charging LED indicators
Protection	
Multiple Protection	Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Current Leakage Protection, Over Temperature Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check, Soaking Protection, Smoke Alarm, Insulation Detection and other Multiple Protection Functions.
Leakage Current Protection	Type A RCD
Standards	
Safety	IEC 61851-1, IEC-61851-23, IEC-61851-24, IEC 62196-1, IEC 62196-3, 2014/35/EU
EMC	IEC 61851-21-2 Class A, 2014/30/EU
RED	2014/53/EU
RoHS	2015/863/EU, 2011/65/EU
Communication	DIN 70121, ISO 15118-1, ISO 15118-2, ISO 15118-3
Other	Modem 4G complies with CE/RED, Meter complies with 2014/32/EU

MotionFast DC Charging Station

80/120/160/200/240kW
*with ACE40kW power module

MF stand-alone DC charging station has a maximum output of 240kW for quick and flexible charging. The LIVOLTEK stand-alone fast charging station features two DC outputs and can be configured with CCS2 plugs. It also includes an intelligent cable management system.

CCS2

Product Benefits

- Future-proof design via open standards, OCPP 1.6J support remote update to OCPP2.0.1 protocol.
- CE and RoHS certification, suitable for all European countries need
- Interaction via 10.1"color touch display
- Multi user authorization with RFID, APP

MotionFast DC Charging Station

80/120/160/200/240kW

CHARGING STATION

Model	Motion Fast DC Charging Station
Input/Output Data	
Rated Power	80/120/160/200/240 kW
AC Connection	3P+N+PE
AC Input Voltage	400 Vac ± 10%
Rated Frequency	50/60 Hz
Power Factor	≥0.99 at nominal load
Output Voltage Range	150 ~ 1000Vdc
Output Current	300 A
Peak Efficiency	≥96%
Basic Features	
Environment of use	Indoor / Outdoor
User Authorization	RFID (ISO 14443 A/B), APP
Working Noise	≤ 65dB （Nominal Load, Measured at 1m from the front of the charger）
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-30°C ~ +70°C
Working Humidity	5% ~ 95% RH
Working Altitude	≤ 2000 m
IP / IK Degree	IP55 / IK10
Cooling	Force Fan Cooling
Dimension(W*H*D)	750*1850*625 mm（with cable management system）
Weight	≤ 380kg
Length of Charging Cable	5m / 7m
Standard Warranty	2 years, extend +1 year / +2 years
Other Features	
Connectivity	4G / Ethernet
External Communication	RS485 / RS232 / CAN
Communication Protocol	OCPP 1.6J, support update to OCPP 2.0.1
User Interface	10.1" Touch Screen, Charging LED indicators
Protection	
Multiple Protection	Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Current Leakage Protection, Over Temperature Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check, Soaking Protection, Smoke Alarm, Insulation Detection and other Multiple Protection Functions.
Leakage Current Protection	Type A RCD
Standards	
Safety	IEC 61851-1, IEC-61851-23, IEC-61851-24, IEC 62196-1, IEC 62196-3, 2014/35/EU
EMC	IEC 61851-21-2 Class A, 2014/30/EU
RED	2014/53/EU
RoHS	2015/863/EU, 2011/65/EU
Communication	DIN 70121, ISO 15118-1, ISO 15118-2, ISO 15118-3
Other	Modem 4G complies with CE/RED, Meter complies with 2014/32/EU

Accessories



Charging Card

ISO 14443 A/B
Compatible Models:
Robot / Atom / Bush / MC / MF



EV HUB

Compatible Models:
Robot/Atom/
BUSH/MC/MF Series



IEMS

Compatible Models:
MF Series



Pedestal

- Dimensions: 1400*185*245mm
- Compatible Models:
Robot Series



Pedestal

- Dimensions: 1000*350*210mm
- Compatible Models:
BUSH Series



Pedestal

- Dimensions: 722*370*330mm
- Compatible Models:
MC Series



Pedestal

- Dimensions: 1400*144mm
- Compatible Models:
ATOM Series



Smart Meter
(LHE12D / LHE34D)



Livoltek Cloud

Smart Meter

LHE12D

LHE12D is single phase multi-function direct connect rail-mounted meter. LHE12D intended to measure grid parameters, e.g. active energy, reactive energy, voltage, current, power, power factor and frequency. The RS485 interface provides power monitoring data for inverters and other devices to realize fast response control. Standard DIN rail installation, with small size, easy to install.

Widely used in distributed photovoltaic, energy storage power station and other new energy field power data monitoring.



Features

- **Safe Operation**
RS485 is physically isolated from the high voltage terminals.
 - **Fast Instantaneous Refresh**
Support voltage, current, active power, reactive power, power factor and other instantaneous response of 100ms.
- **Communication Function**
Supports RS485 communication port, supporting up to 38400 baud rate.
 - **Module Expansion Interface**
Support external communication module, can be used to expand Bluetooth, WiFi and other wireless communication module, wireless communication with inverter equipment.

Model	LHECCH.R110
Connection	Single-phase two-wire (1P2W)
Voltage	Nominal voltage: 220V/230V/240V Operating voltage range: 70%Un~130%Un
Current	5 (80) A
Accuracy	Active energy: Class 1; Reactive energy: Class 2
Frequency	50Hz / 60Hz
Temperature	Operation range: -25°C to +55°C Limit range for storage and transport: -40°C to +85°C
Humidity	Up to 95% non-condensing
Power Consumption in Voltage Circuit	≤2W, 10VA
Power Consumption in Current Circuit	≤1VA
Communication Port	RS485 communication port, Modbus-RTU Protocol Baud rate: 1200, 2400, 800, 9600, 19200, 38400 (configurable)
Dimension (W*H*D)	18*69*100 mm
Certification	CE, MID, RoHS

Smart Meter

LHE34D

LHE34D is three phase multi-function direct connect rail-mounted meter.LHE34D intended to measure grid parameters, e.g. active energy, reactive energy, voltage, current, power, power factor and frequency. The RS485 interface provides power monitoring data for inverters and other devices to realize fast response control. Standard DIN rail installation, with small size, easy to install.

Widely used in distributed photovoltaic, energy storage power station and other new energy field power data monitoring.

Features

- **Safe Operation**
RS485 is physically isolated from the high voltage terminals.
 - **Fast Instantaneous Refresh**
Support voltage, current, active power, reactive power, power factor and other instantaneous response of 100ms.
- **Communication Function**
Supports RS485 communication port, supporting up to 115200 baud rate.
 - **Module Expansion Interface**
Supports 12V 2.5W power supply, which can be used to expand wireless communication modules such as Bluetooth and WiFi to realize wireless communication with inverter devices.



EV Charging Control Hub

Energy Management System for EV Charging Field

Features

- **Dynamic Load Management**
It can be connected to a smart meter to obtain the current energy consumption of the gridconnection point and dynamically adjust the charging current of electric vehicles.
- **Four Charging Mode**
Supports 4 charging modes,not charging / grid charging / PV surplus charging / hybrid charging.
- **Support Cluster Management Control**
Multiple charging control hubs can be connected via network cables to manage morecharging piles.
- **Support Overload Protection & Three-phase Balance Optimization**
Constant monitoring of energy consumption helps prevent your house connection frombeing overloaded.



Model	LHECCH.R110
Connection	Three-phase Four-wire (3P4W); Three-phase Three-wire (3P3W)
Voltage	Nominal Voltage: 3x120/210V, 3x230/400V, 3x240/415V Operating Voltage Range: 70%Un~130%Un
Current	3*5 (80) A
Accuracy	Active energy: Class 1; Reactive energy: Class 2
Frequency	50Hz / 60Hz
Temperature	Operation range: -25°C to +55°C Limit range for storage and transport: -40°C to +85°C
Humidity	Up to 95% non-condensing
Power Consumption in Voltage Circuit	≤2W, 10VA
Power Consumption in Current Circuit	≤1VA
Communication Port	RS485 communication port, Modbus-RTU Protocol Baud rate:1200, 2400, 4800, 9600, 19200, 38400 (configurable)
Dimension (H*W*D)	72*67*101 mm
Certification	CE, MID, RoHS

Model	LHECCH.R110
Electrical Parameters	
Input voltage	3*220V / 380V, ±20%
Operating power consumption	≤5W
Communication	
Ethernet communication	Number of ways *2, 10 / 100Mbps adaptive
WLAN communication	2.4GHz/ 802.11 b/g/n, support STA/AP/STA+AP model
4G communication	LTE Cat 4 LTE-FDD B1/3/5/7/8/20/28
Environmental Parameters	
Operating temperature	-30 ~ +65°C
Working humidity	5% ~ 95%, relative humidity non-condensing
Storage temperature	-40 ~ +70°C
Working altitude	≤2000m
Protection level	IP20
Physical Parameters	
Dimension (W*H*D)	72*105*66.5 mm
Installation method	Guide rail type
System	
Operating System	Linux
Communication Protocol	OCPP 1.6 / 2.0 JSON
Memory	64M
Hard Storage	256M
Number of chargers connected	≤100 (Dynamic), ≤200 (Static)

Livoltek Cloud

Residential Solutions Monitoring System

My Livoltek APP

- Remotely monitor the status of your charger
- Schedule to charge at cheaper rate
- Share to family numbers
- Remote OTA



My Livoltek APP

Livoltek Energy Monitoring System

- View all home power flows
- Track your home generations & consumption
- Intelligent e-mobility charging schedule
- Eliminate your billing revenue



Livoltek Monitoring

Semi-public Solutions Monitoring System

EV Operator System

- Preferred by semi-public operations, the platform is easy to set up, manage and monitor charging
- Use first, pay later, improve user charging experience

