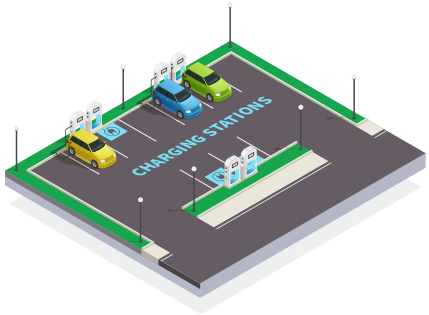
LIVOLTEK

ENERGY MANAGEMENT SYSTEM FOR EV CHARGING FIELD

The charging control hub is an energy management system that can realize automatic load management, distribute energy intelligently, safely and efficiently throughout the charging station, optimize the grid load, improve energy usage efficiency, and reduce charging costs.

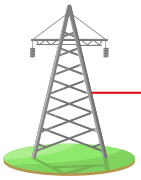
Application Scenario

Household Charging Post



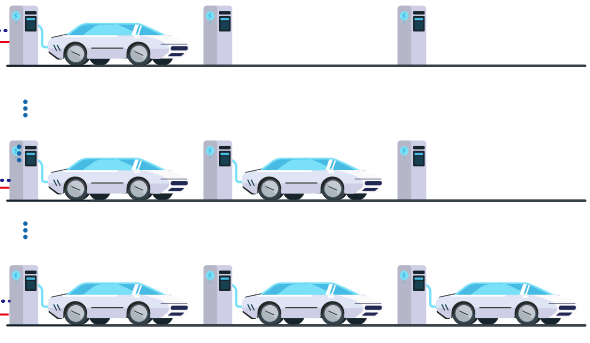
Operation of Charging Stations

Power supply
RS485
WiFi/LAN/4G



Grid

Meter



EV HUB

ESS/OCPP Cloud

WiFi/LAN/4G

WiFi

Local Webserver

FEATURES

- **Dynamic load management**

  It can be connected to a smart meter to obtain the current energy consumption of the grid connection point and dynamically adjust the charging current of electric vehicles.

- **Support cluster management control**

  Multiple charging control hubs cannetworking through LAN connection to manage more EVC groups,make it easier for owner to manage cross spatial cluster.

- **Three limit mode**

  Support 3 limit mode，including "Amount limit","Phase limit","Individual EVC limit",Support dynamic charging strategies including "First come first served","Average distribution".

- **Support overload protection and three-phase balance optimization**

  Constant monitoring of energy consumption helps prevent your house connection from being overloaded.

SPECIFICATIONS

MODEL	LHECCH.R110
Electrical parameters	
Input voltage	3*220V/380V,±20%
Operating power consumption	⩽5W
way of communication	
Ethernet communication	Number of ways *2,10/100MbpsAdaptive
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 ; LTE-TDD B38/40/41 (Regional differentiation in selectable spectrum bands)
Environmental parameters	-30 ~ +65°C
Operating temperature	5% - 95%,Relative humidity non-condensing
Working humidity	-40 ~ +70°C
Storage temperature	⩽ 2000m
Working altitude	IP20
Protection level	
Physical parameters	105mm x 72mm x 66.5mm
Dimensions (length*width*height)	Guide rail type
Installation method	
System	Linux
Operating System	OCPP 1.6/2.0 JSON
Communication Protocol	64M
Memory	256M
Hard Storage	32
Number of chargers connected	