

LUX

AC Home Charger

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Light up your
charging, smartly

Designed for home and workplace
charging.



reddot winner 2024

Features



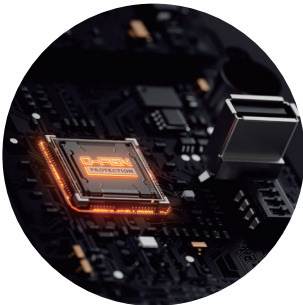
Dynamic Load Balancing & Smart Charging

With the additional accessory Prisma, the LUX AC Home Charger's dynamic load balancing reduces peaks in your energy usage by intelligently adjusting power depending on your household's energy consumption. The LUX AC Home Charger's smart charging capabilities optimise energy usage and save you money on your electricity bill.



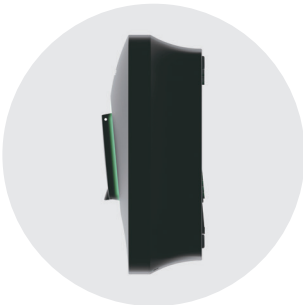
Seamless App Integration

Easily control and monitor your charging sessions from your smartphone or tablet, whether you're at home or on the go. Adjust charging current and monitor real-time charging data to suit the charging setup in your home.



Integrated O-PEN Detection Device (UK Version)

As a home charger, safety is at the heart of the LUX AC Home Charger's design. The UK version of the charger features an integrated O-PEN detection device to ensure the safety of you and your electrical vehicle.



Sleek & Minimalistic Design

The LUX AC Home Charger offers maximum power in a minimal package. Its robust design features an integrated aluminium heat sink to maintain a low temperature during operation. Together with the compact size of the charger, this allows a smaller environmental footprint.



Smart Home Integration

The LUX AC Home Charger integrates seamlessly with your smart home through Bluetooth, RFID/NFC, and Wi-Fi. Save money with scheduled charging so you can choose to charge when electricity prices are at their lowest. The inclusion of local connectivity ensures the utmost reliability and guarantees your EV will be charged in time.

Benefits

22_{kW}

Powerful

The charger supports both 1 and 3 phase charging of up to 22 kW. It has a Type 2 standard charging connector.

1/3_p

Dynamic Load Balancing

The charger can adjust the charging speed according to the circuit load. It can switch between 1-phase and 3-phase charging appropriately, ensuring maximum charging efficiency and safety.

15₊

Colorful Light

Using the EVbee Home app, turn the LED indicator on and off, adjust brightness, and change the light effect of the "standby" and "charging" modes.

3_{ENT}

User-Centric

There are three AC input cable entry options for the charger, which are the top entry, the concealed entry located on the back of the charger, and the bottom entry. Depending on the charger's placement, choose the most suitable entry point to use.

15_{mins}

Easy Installation

The highly modular design allows for a quick and easy installation in as little as 15 minutes. A convenient installation process provides a better user experience.

Scenarios



Private Home



Workplace

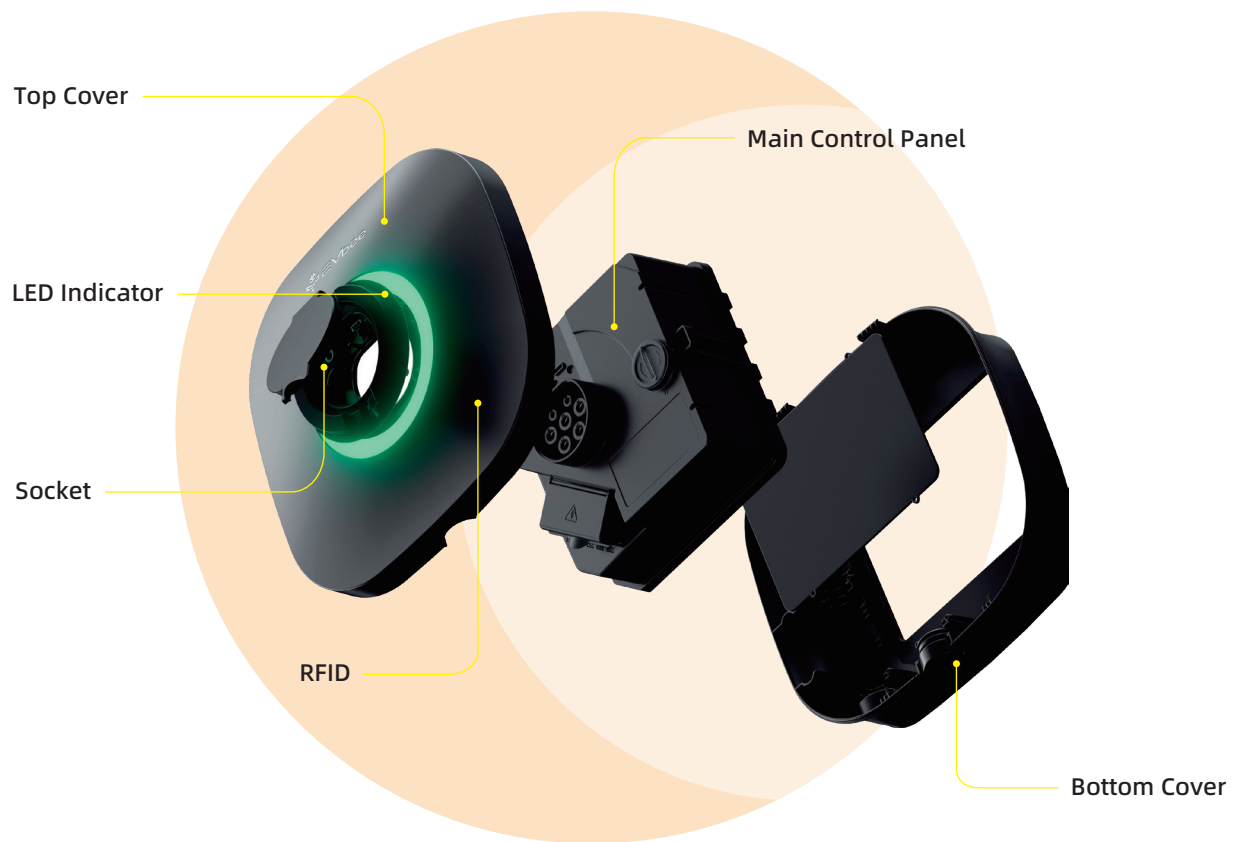


Hotel

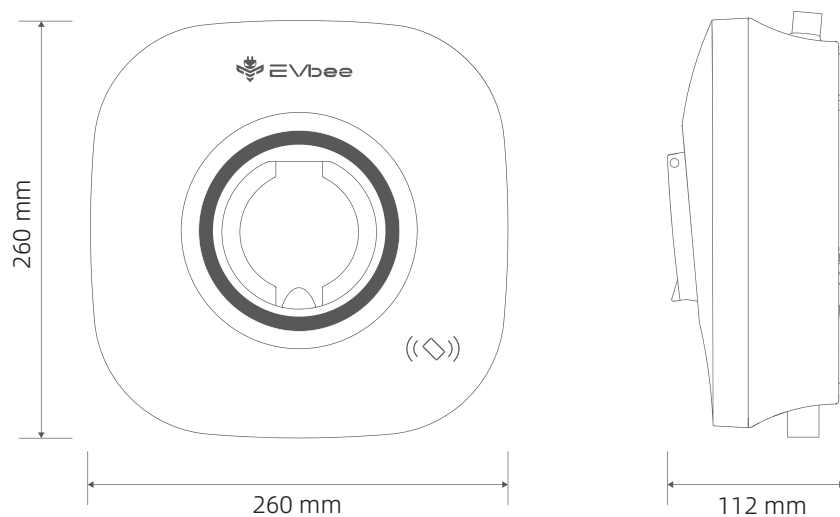


Destination Charging

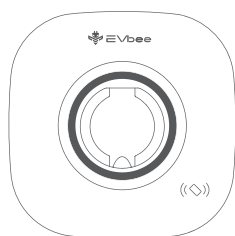
Modular Design



Dimensions



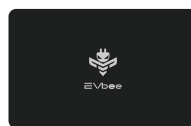
Packaging



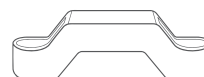
Charger x 1



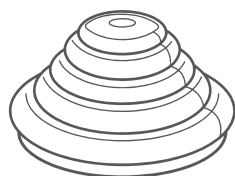
Manual x1



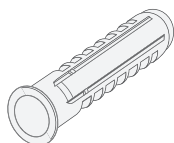
RFID Card x 2



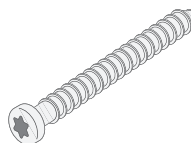
Strain Relief x 2



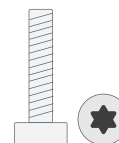
Sealing Plug x 2



Wall Anchor x 4
 $\Phi 8 * \Phi 6 * 40\text{mm}$



Wall Screw
 $\text{ST5.0} * 40\text{mm} \times 4$



Torx Screw
 $\text{ST2.9} * 12\text{mm} \times 4$

Technical Data

AC Input

System Power	Max. 22kW	Max. 7.4kW
Input Phase	1/3-phase	1-phase
Input Voltage	230 / 400Vac	230Vac
Grid Frequency	50Hz/60Hz	50Hz/60Hz
Input Current	Max. 32A	Max. 32A
Grounding System	TN, TT, IT	TN, TT, IT
Input Mode	Hard-wire	Hard-wire
Input Port	L1, L2, L3, N, PE	L, N, PE
Overvoltage Category	III	III

Charging

Charge Mode	Mode 3	Mode 3
Output Power	Max. 22kW	Max. 7.4kW
Output Phase	1/3-phase	1-phase
Output Voltage	230 / 400Vac	230Vac
Output Current	Max. 32A	Max. 32A
Energy Metering	(±2%) accuracy on readings	(±2%) accuracy on readings
Connector Type	Type 2 socket/Type 2 plug	Type 2 socket/Type 2 plug
Charging Outlet Number	1	1
Cable Length	5m (for Type 2 plug)	5m (for Type 2 plug)

Extended Function

Load Balancing	Supported	Supported
Phase Balancing	Supported	/

Interface

External Control	EVbee Home app (for user) EVbee Service app (for installer) EVbee Garden Cloud	EVbee Home app (for user) EVbee Service app (for installer) EVbee Garden Cloud
Local Control	RFID	RFID
Status Indicator	RGB Dynamic LED	RGB Dynamic LED

Communication

Communication	Bluetooth BLE 4.2 (2400-2483.5MHz) PLC (optional) Wi-Fi 802.11b/g/n (2.4GHz) 4G LTE (optional)	Bluetooth BLE 4.2 (2400-2483.5MHz) PLC (optional) Wi-Fi 802.11b/g/n (2.4GHz) 4G LTE (optional)
Platform Protocol	OCPP 1.6 JSON, OCPP 2.0.1 (future)	OCPP 1.6 JSON, OCPP 2.0.1 (future)

Mechanical and Cosmetic

IP	IP54	IP54
IK	IK10	IK10
Size (mm)	L260 x W260 x D112mm	L260 x W260 x D112mm
Weight	3.0kg	3.0kg
Material	Plastic and aluminium alloy	Plastic and aluminium alloy
Cooling Method	Natural/passive cooling	Natural/passive cooling
Installation Method	Mounting on a wall or pedestal	Mounting on a wall or pedestal

Operating Environment

Application Scenario	Indoor or outdoor	Indoor or outdoor
Operating Temperature	-30°C to +50°C	-30°C to +50°C
Storage Temperature	-40°C to +85°C	-40°C to +85°C
Operating Humidity	0%~95%RH Without condensation	0%~95%RH Without condensation
Operating Altitude	≤2000m	≤2000m

Safety and Protection

Electrical Protection	Temperature protection, over voltage protection, over current protection, short circuit protection, lightning protection, cp voltage protection, grounding protection, leakage current protection etc.	Temperature protection, over voltage protection, over current protection, short circuit protection, lightning protection, cp voltage protection, grounding protection, leakage current protection etc.
O-PEN Protection	Integrated in UK model	Integrated in UK model
RDC-DD	DC 6mA	DC 6mA
Fire Classification	UL 94-V0	UL 94-V0
Certification	EU model: CE, CB, TUV, RoHS UK model: UKCA, TUV, RoHS	EU model: CE, CB, TUV, RoHS UK model: UKCA, TUV, RoHS



Charging Made Carefree

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