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HomeHub



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HOMEHUB®



Smart EV Charging

Integrated Battery Storage

Mobile App Control

RGB LED Status Indication

Supports multiple charging options

7.4 kW EV Charging

300 W Scooter & Bike Charging

25 kWh $LiFePO_4$ Battery Pack

3 kW Pure Sine Wave Inverter

96% Inverter Efficiency

Built for indoor and outdoor installation

IP55 weather protection

IK10 impact resistance

WiFi, Ethernet, LTE-M & RFID connectivity

Supports single and three-phase power

5000 battery life cycles

Ground or wall mountable

Designed for electric cars, bikes & scooters

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Product certifications (Pending)

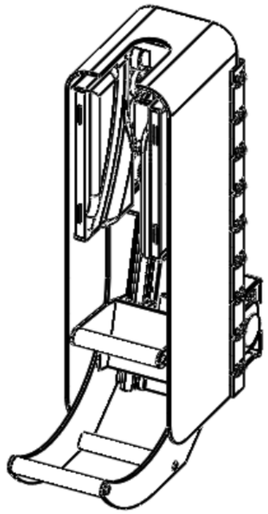


EN 60204–1: 2018, EN ISO 13849–1: 2023, EN ISO 13849–2,EN ISO 12100, EN ISO 13857, ETSI EN 301 489, ETSI EN 301 489–3, ETSI EN 301 489–17, ETSI EN 300 328, EN 62479, EN 60529: 2013, ISO 17096: 2015, IEC 62262, EN ISO 1461: 2022, EN ISO 14713–1: 2017, EN ISO 14713–2: 2019, EN ISO 12944–5: 2019, EN 60335–2–29, EN 61851

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SmartCLAMP
Docking Mechanism

The SmartCLAMP is the core mechanical interface used to position and move bikes and scooters within the HomeHUB system. Its modular design supports dedicated bikeCLAMP and scooterCLAMP configurations, allowing the same mechanism to accommodate different vehicle types.

The mechanism uses guide bearings to support controlled vertical movement. Two columns of bearings are positioned on each side of the SmartCLAMP to distribute the load during upward and downward movement, providing a structured and stable mechanical path through the system.

01 **BikeCLAMP**

Configuration designed for bicycle docking and vertical movement.

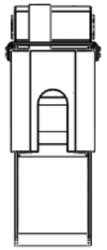
02 **ScooterCLAMP**

Alternative cradle configuration designed for scooter docking.

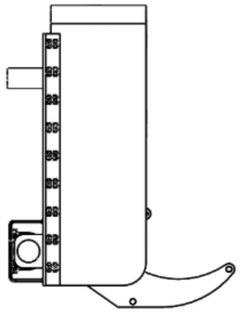
03 **Guide Bearing System**

Two columns of bearings on each side guide the SmartCLAMP during vertical movement and support load distribution.

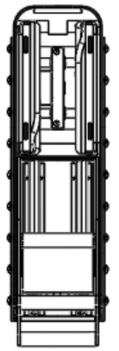
Plan



Profile



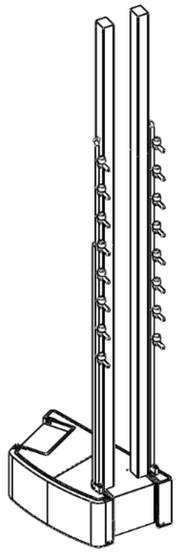
Elevation



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SmartRAMP
Guided Access System

The SmartRAMP forms the guided access structure of the HomeHUB, providing a controlled path for the docking mechanism. Its vertical rail assembly works alongside the SmartCLAMP to support smooth and consistent movement within the system.

The SmartRAMP assembly incorporates a pair of vertical rails with integrated mounting and control components. The structure is designed as part of the HomeHUB's guided mechanical system, providing the framework required for controlled vertical operation.

01 **Dual Rail System**

Two parallel vertical rails form the primary guided structure of the SmartRAMP.

02 **Guide Components**

Integrated components along the rail support the controlled movement of the docking mechanism.

03 **Control Assembly**

The lower assembly incorporates the associated control and release components shown in the technical drawings.

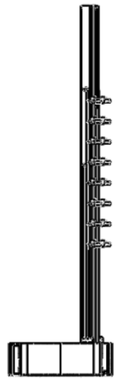
Plan



Profile



Elevation



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PowerCORE

The PowerCORE is the energy storage system at the heart of the HomeHUB, engineered to provide reliable and efficient power for the entire system. Its modular architecture allows the battery system to deliver consistent performance while maintaining a compact and serviceable design.

The PowerCORE is built as a stack of 11 individual battery modules, with each module containing 84 battery cells. This structured modular configuration enables efficient energy storage, simplified system integration, and easier servicing while supporting the HomeHUB's overall charging and swapping operation.

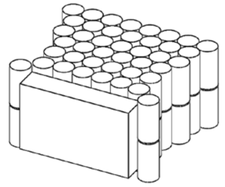
Modular Architecture
11 battery modules arranged in a compact vertical stack

Cell Configuration
84 cells within each individual battery module

System Role
Provides the core energy storage required for the HomeHUB system

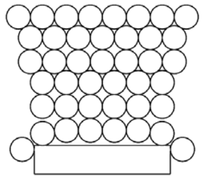
Design Approach
Modular construction for efficient integration, maintenance & scalability

01

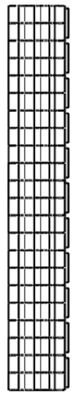


Battery Module
(84 Cells) with BMS

Plan

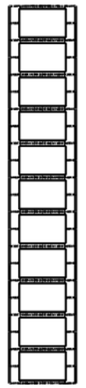


Profile



11 Battery Modules in stack (Battery Pack)

Elevation



11 Battery Modules in stack (Battery Pack)

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Engineered System Overview
HomeHub Plus

HomeHUB Plus integrates the core mechanical and power components into a single compact system. The assembly is built around three key elements: SmartCLAMP, SmartRAMP and PowerCORE, working together as the central platform for automated docking, positioning and power management.

01 SmartCLAMP

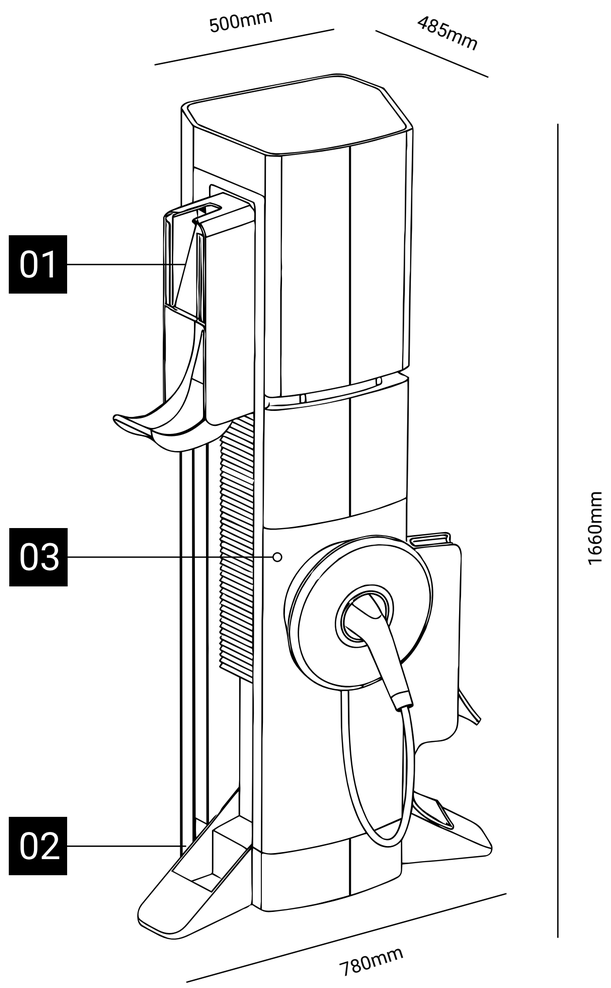
The SmartCLAMP provides the primary docking mechanism, designed to securely position and support compatible bikes and scooters within the HomeHUB system.

02 SmartRAMP

The SmartRAMP provides the guided access and positioning structure for smooth vehicle engagement with the HomeHUB, supporting controlled movement into the docking position.

03 PowerCORE

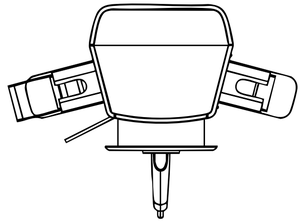
PowerCORE houses the system's power infrastructure, supporting charging and energy management within the HomeHUB platform.



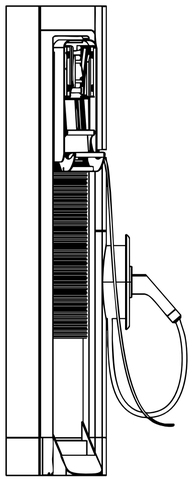
Key Dimensions

Height: 1660 mm
Width with Ramp: 780 mm
Width without Ramp: 500 mm
Body Depth: 485 mm

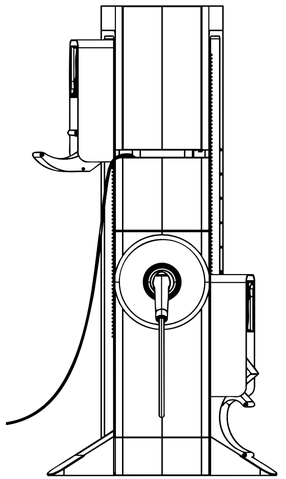
Plan



Profile



Elevation



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Technical Specifications | **HomeHub Plus**

Charging Connectors	DC 5.5x2.1,3PGX16,3PGX12, XLR/Cannon, IEC
User Interface	Mobile App control, RGB LED indication, Speaker
Connectivity	Ethernet, Wi-Fi, LTE-M, RFID

Scooter/Bike Charger

Output power	300W
Operating voltage	220...240 V AC 50/60 Hz, Single Phase
Charging current	3A
Charging efficiency	89%

EV Charge

Output power	7.4 kW
Operating voltage	1 or 3-phase, 230–400V
Operating current	6-32 A (configurable)
Connector	Type 2 fixed cable (3m) or socket (shutter optional)

Battery Pack

Battery Chemistry	LiFePo4
Cell Type	32650
Voltage Range	70 - 89.6 - 103.6V
Capacity	25kWh
Cycles Until 80% of Capacity	5000

Inverter

Constant Power Output	3kW
Output Wave	Pure Sine Wave
Inverter Efficiency	96%

Environmental Properties

IP degree of protection	IP55
IK degree of protection	IK10
Ambient air temperature (operation)	-30°C to +50°C
Ambient air temperature (storage)	-40°C to +80°C
Relative humidity	5% to 95%
Operating altitude	2500m

Physical Properties

Height	1660 mm	Weight	100kg / 220 lbs
Width	485 mm	Housing	Stainless Steel, Carbon Steel

Breadth

Not including ramp	500 mm
Including Ramp	780 mm

Acceptable Bikes Dimensions

Wheel Width	20-100mm(0.8-4 inches)
Wheel diameter	12-29 Inches
Bike Weight	50 kg/110 lbs

Acceptable Scooters Dimensions

Wheel Width	20–100 mm / 0.8–4 in.
Wheel Diameter	250 mm / 6–10 in.
Scooter Weight	50 kg / 110 lbs

Installation Guide | **HomeHub Plus**

GND	NEDArtciles 250 and 690 Grounding must be done using copper rods or grounding grids depending on the local soil resistivity.
SM2	SmartMETER must comply with ANSI C12
SPD	UL 1449
GFCI2	NEC 625 (EVSE)
Wiring Regulation	NEC (NFPA70) All wiring must follow National Electrical Code.
Cable Types	- THHN/THWN for conduit - UF for direct burial - MC for metal clad installations
Ampacity & Conduit Fill	NEC Tables 310.16 & 310.15 (B)
Above Ground	Conduit systems (PVC, EMT, or metal) based on environment (IP rating required for weatherproofing).
Underground	Direct burial (SWB armored cable).
Fire Stopping	Require when routing through walls

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Intelligent charging & energy storage,
designed to power the future of electric mobility.

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T O W A R D S T O M O R R O W

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