SOLUTION SHEET

E-mobility EcoFlex eHouse

EcoFlex eHouse with integrated storage, PV and high-power charging

E-mobility EcoFlex eHouse with integrated energy storage, PV, high-power chargers and charging posts

Plug-and-play solution - simply connect to grid and start operation

Pre-assembled, pre-tested solution to minimize site works

Simple and quick installation

Relocatable solution for temporary power needs

The e-mobility EcoFlex eHouse all-in-one solution, with integrated energy storage, solar generation, charging cabinets and charging posts, provides high-power charging where the grid power is insufficient in a plug-and-play concept to start operation after connection to the LV grid. Typical applications of this green concept include connection to LV network, where the MV network is not available and the peak power demand isn't manageable, or for temporary installations. The ease of installation of this pre-wired solution drastically reduces site activities in terms of man-hours, excavation and civil works activities. The enclosure of the solution protects the energy storage system from the external environment.

Features of solution

- ISO dimensions for ease of transportation
- Lockable enclosure to prevent unauthorized entry
- Plug and play
- Pre-tested at factory
- Relocatable
- Robust design

Equipment description

The EcoFlex eHouse houses a low voltage switchboard with protection devices, ie circuit breakers or fused disconnects, and integrated energy storage and a PV inverter. Solar panels are installed on the roof to provide energy to the auxiliary system. A local energy management system to reduce peak demand is embedded in the control system. Additional renewable energy resources can be connected to the solution.

Technical data

Key specifications	
Power	Up to 900 kW (40 ft)
Storage capacity	Up to 1000 kWh (40 ft)
Number of power cabinets	Up to 4 (40ft)
Rated voltage	400-480Vac
Protection degree	IP 54
Applicable standards	IEC, GB, AS, GOST, ANSI, CSA, and more

Optional equipment

- Seismic certifications
- HVAC
- Fire extinguishing system
- SCADA ready
- Remote monitoring
- Remote monitoring and control
- Combined junction box for charging posts
- Power management systems

Installation

- Factory assembled and tested
- Plug-and-play concept
- LV connection needed at site
- Reduced site works
- No heavy crane or special lifting devices needed

Single line diagram

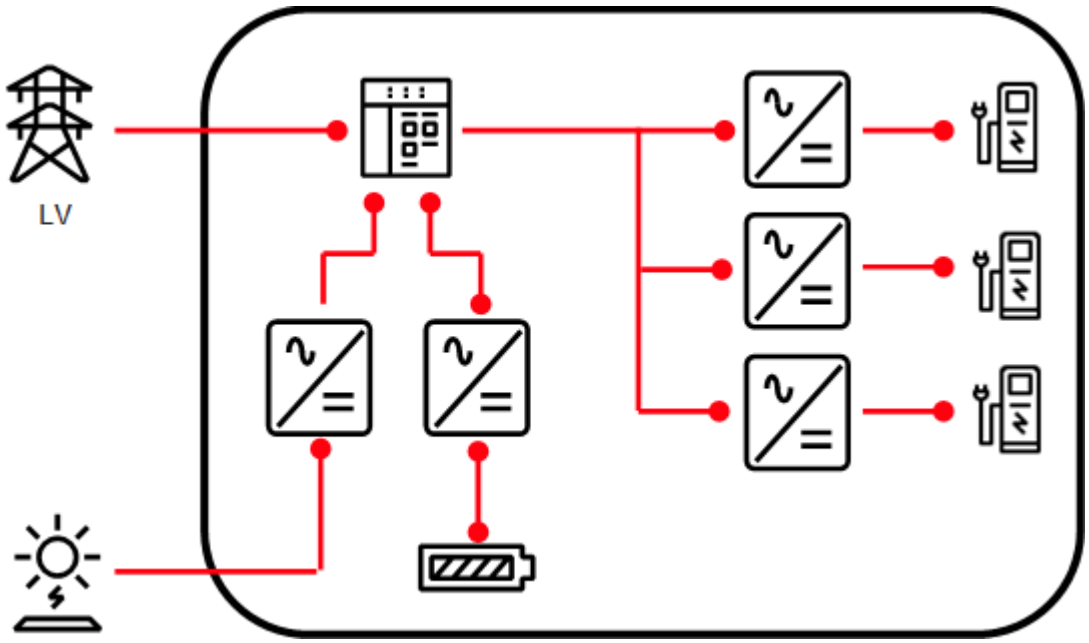

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ABB Ltd.

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