E-mobility EcoFlex eHouse
EcoFlex eHouse for EV high power chargers

Improved safety with type tested equipment, easy to install and operate

Easy to ship, load and offload

Pre-engineered and factory tested solutions ensures immediate operability, maximizes ROI

Modular concept to allow ease of scalability in power and capacity

The ABB EcoFlex eHouse for electric vehicle high power chargers is a factory assembled and factory tested solution to be connected to the grid to provide power to during EV charging.

EcoFlex ESM eHouse is a prefabricated and movable plug-and-play solution allowing for immediate operation after connection to the LV grid. The ease of installation of this pre-wired solution drastically reduces the site activities in terms of manhours, excavation and civil works activities.

Solution can be easily connected to other ABB EcoFlex products. Robust and modular design allows stacking different EcoFlex solutions on each other in limited site conditions.

Solution features
- ISO dimensions for ease of transportation
- Compact design to reduce footprint installation
- Plug-and-play solution
- Pre-tested at factory
- Relocatable
- Robust design

Equipment description
The EcoFlex eHouse houses electric vehicle high power charging cabinets, protection equipment inside separate low voltage compartment, internal power and control cabling, together with energy management system for monitoring and operation of chargers in connection with battery energy storage. EV high power charger charging posts can be installed into the same EcoFlex.

Technical data

<table>
<thead>
<tr>
<th>Key specifications</th>
<th>Details</th>
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<tbody>
<tr>
<td>Connection voltage</td>
<td>400-480 V</td>
</tr>
<tr>
<td>Number of EV charger power cabinets</td>
<td>From 2 to 8</td>
</tr>
<tr>
<td>Number of EV charging posts</td>
<td>Up to 4</td>
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<tr>
<td>Available power for EV charging</td>
<td>Up to 8 x 175 kW</td>
</tr>
<tr>
<td>Protection degree</td>
<td>IP 54 (for low voltage switchboard compartment)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6060 x 2440 x 2590 mm</td>
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</tbody>
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Additional equipment
- Stationary or withdrawable charging posts
- Walls with ventilation louvres to increase protection class
- Seismic certifications
- Energy management system
- Remote monitoring
- MCCB protection for high power charging cabinets

Installation
- One-piece delivery factory assembled and tested
- LV connection needed at site
- Reduced site works
- Compact design for reduced footprint
- Top lifting by crane
- Bottom lifting by forklift for ease relocation
- Plug-and-play concept

Single line diagram

EcoFlex eHouse solution for EV high power chargers

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