## Overview

Efacec has long experience in power electronics design and industrial product manufacturing which allows us to successfully make our own product development and engineering.

Currently Efacec EV charging family has 3 product lines, Home Charging, Public AC Charging and Fast Charging. Efacec has started the EV charging program in 2008 developing solutions and products for the different EV charging market segments.

Efacec public AC charger is being recommended by EV manufacturers as authorized provider for public AC charging units.

## **Product description**

Efacec EV Public AC Chargers product line has been developed and designed for conductive battery charging of the EV or PHEV's on board batteries at public access charging locations.

The EV public AC Charger was designed to have one Central Command Unit (equipped with one Command Module and up to two AC charging modules) and the required number of Power Satellites Units, managing up to 254 sockets. This type of design assures:

- Scalability
- Low Cost
- Modularity
- High flexibility to match the local architecture requirements
- Easy installation and maintenance
- Charging Modules:
- Mode 1
- Mode 2
- Mode 3 charging, Case B
   Type 1 or type 2 outlet socket. Others available under request
- Mode 3 charging, Case C
  Power cord charger attached with type 1 or type 2 plug. Others available under request

Each Efacec EV Public AC Charger can be integrated in a Charging Infrastructure Network and its operation and status is controlled by the Central Management System. If a charger is offline the User can still operate it according to the business model defined by the customer. Even at a power shutdown emergency the charger will release EV's charging cord only to the identified user.

Each user has its own Mobility Card that allows him to use anywhere the public charging infrastructure. By default the contactless card data model is the Mifare standard but other standards can be adopted.

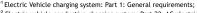


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\*† Electric Vehicle charging system: Part 1: General requirements;
\*\* Electric vehicle conductive charging system: Part 22: AC electric vehicle charging station;

\*3 Electromagnetic compatibility (EMC): Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments; \*4 Electromagnetic compatibility (EMC): Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.











Examples of customization







