

EVite

Developing a Swiss-wide fast charging network



EVite
Fast Charging.
Anytime.
Anywhere.

Brief overview



- EVite is a project of the association Swiss eMobility.
- In this manner a base-grid with 150 to 250 charging points is to be deployed in 2013.
- In the following years the grid will grow parallel to the EV market in Switzerland.



Eliminating «range-anxiety»

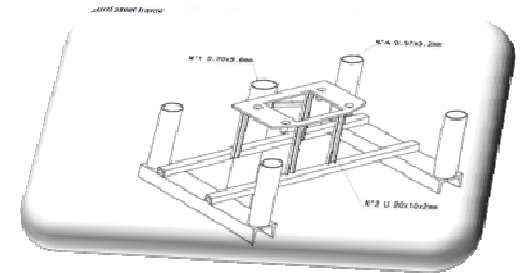


- Average daily distance is below 50 km
- EV range is about 100 – 140 km, i.e. higher than the average daily distance traveled
- But: 20 % of all travelers exceed the average distance traveled
- To solve this issue EVite is needed – a Swiss-wide fast charging station grid



EVite – neutral and modular

- Every charging point supports all available fast chargeable EVs
- Access is provided 24/7
- Open Source basement (opi2020) for modularity and flexibility
- Easy exchange and maintenance through Plug&Play



EVite – neutral and modular



PFC_evite_short.wmv

Charge peak power - today



40-50 kW

DC

AC

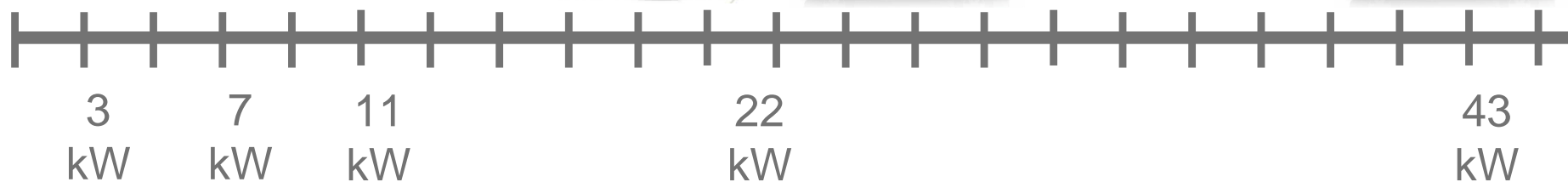
All!



Optional only

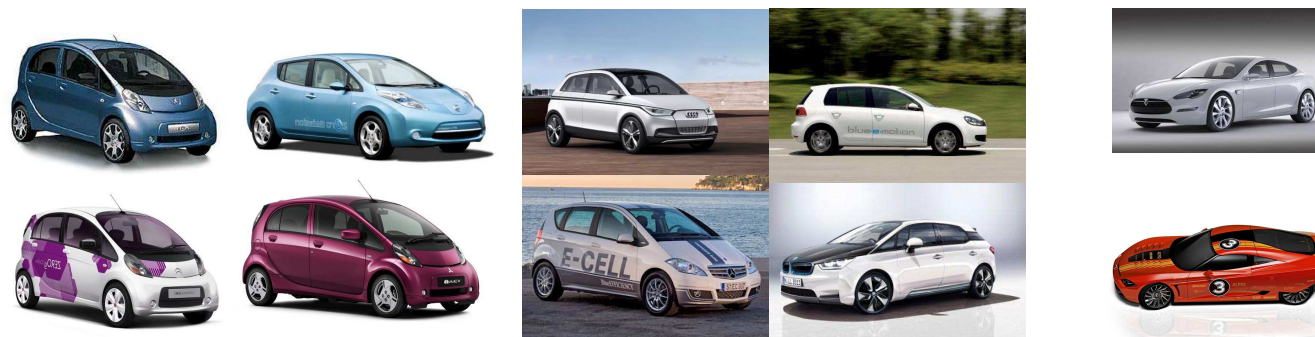
No penalty

With penalty



Source: Protoscar, Graphic depicts only sample models and is not a complete listing

Charge peak power - tomorrow

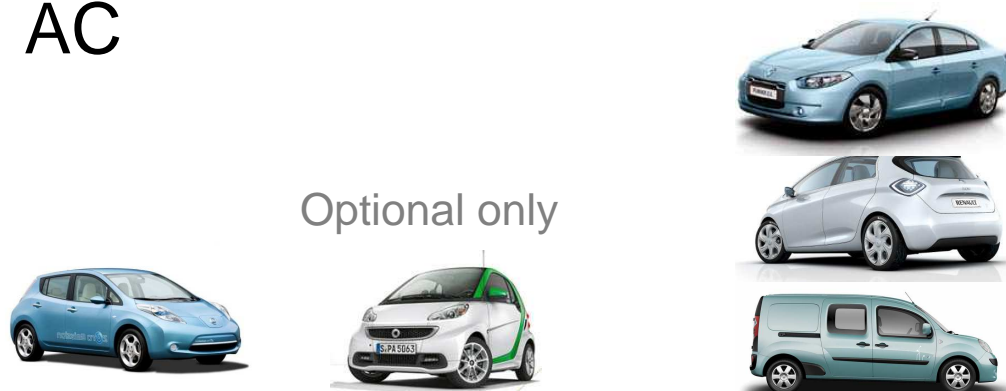


DC

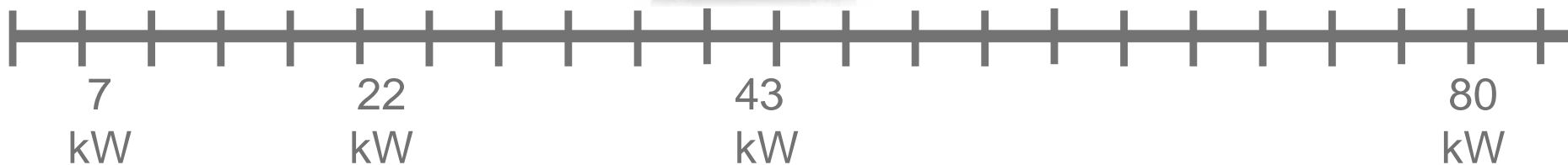
All: 40-50 kW (CHAdeMO-CAN und COMBO-PLC)

80 kW

AC

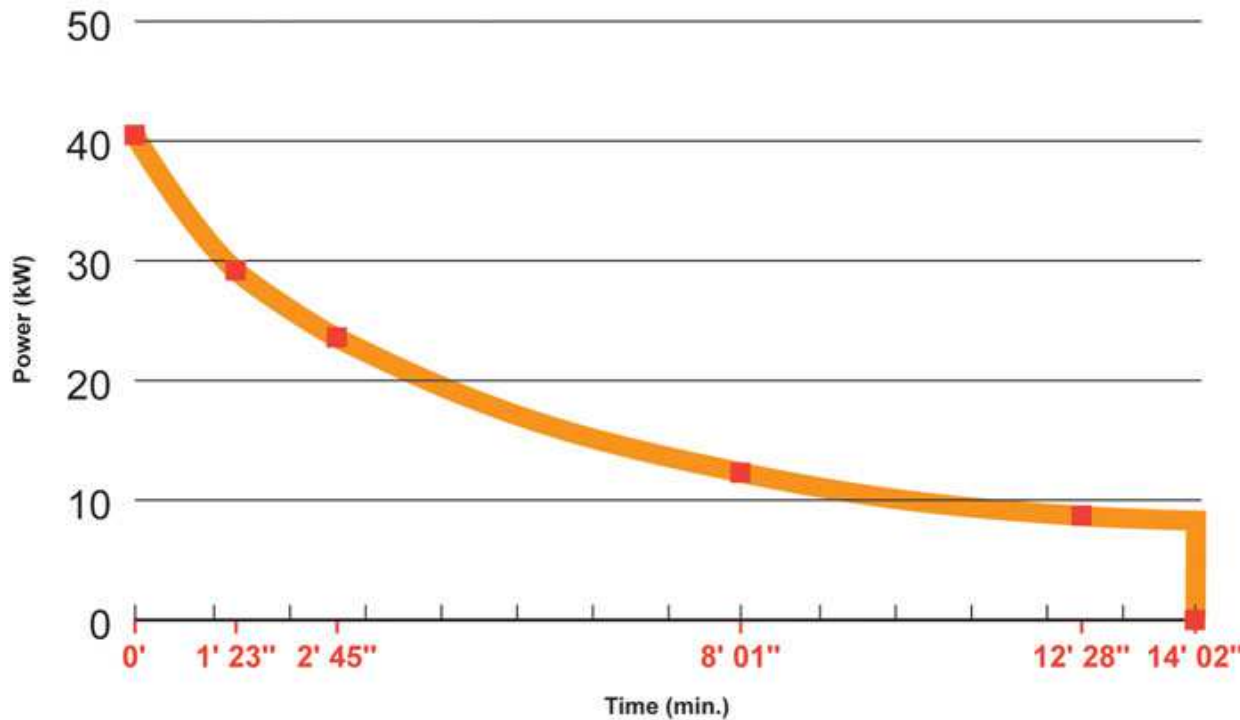


Optional only



Source: Protoscar, Graphic depicts only sample models and is not a complete listing

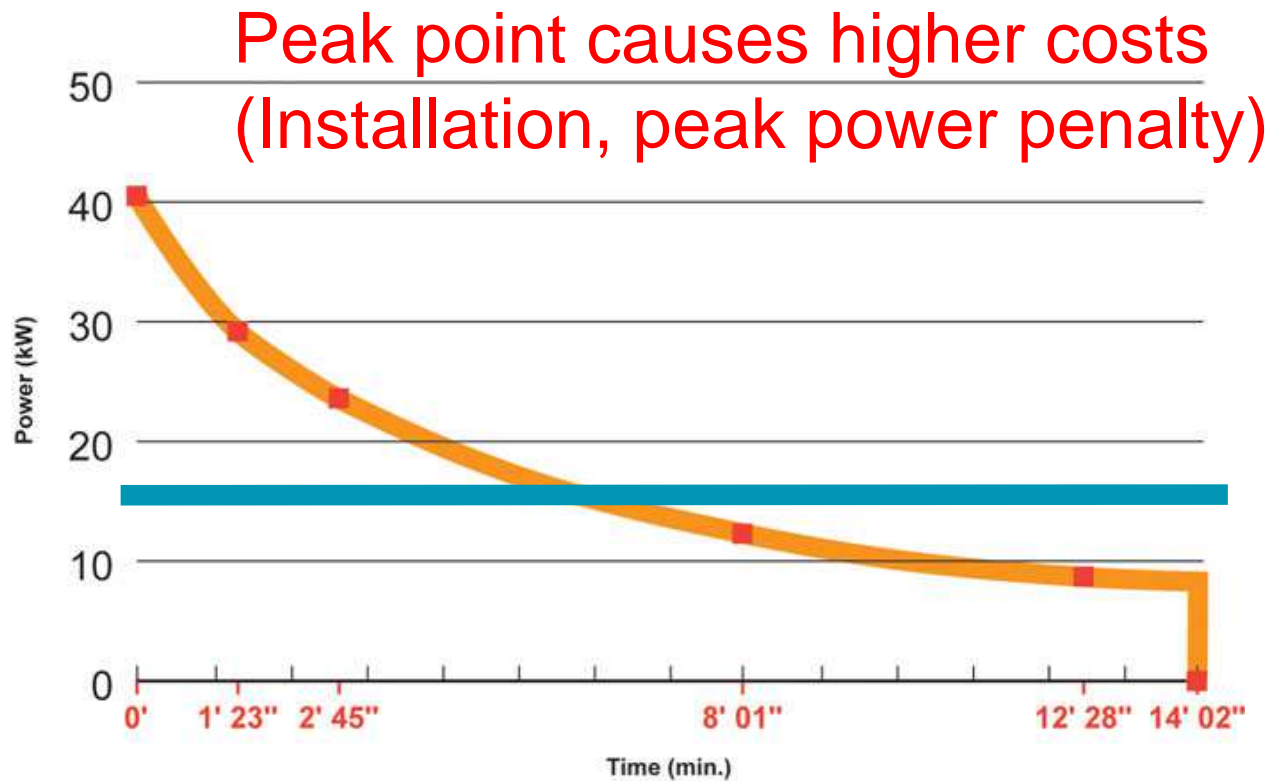
Average, ideal power



$$\frac{\int_0^T W(t) dt}{T} = 16,9 \text{ kW}$$

14.8.2012, Oslo: ABB „Terra 51“, Mitsubishi iMieV @ 20 C

Average, ideal power



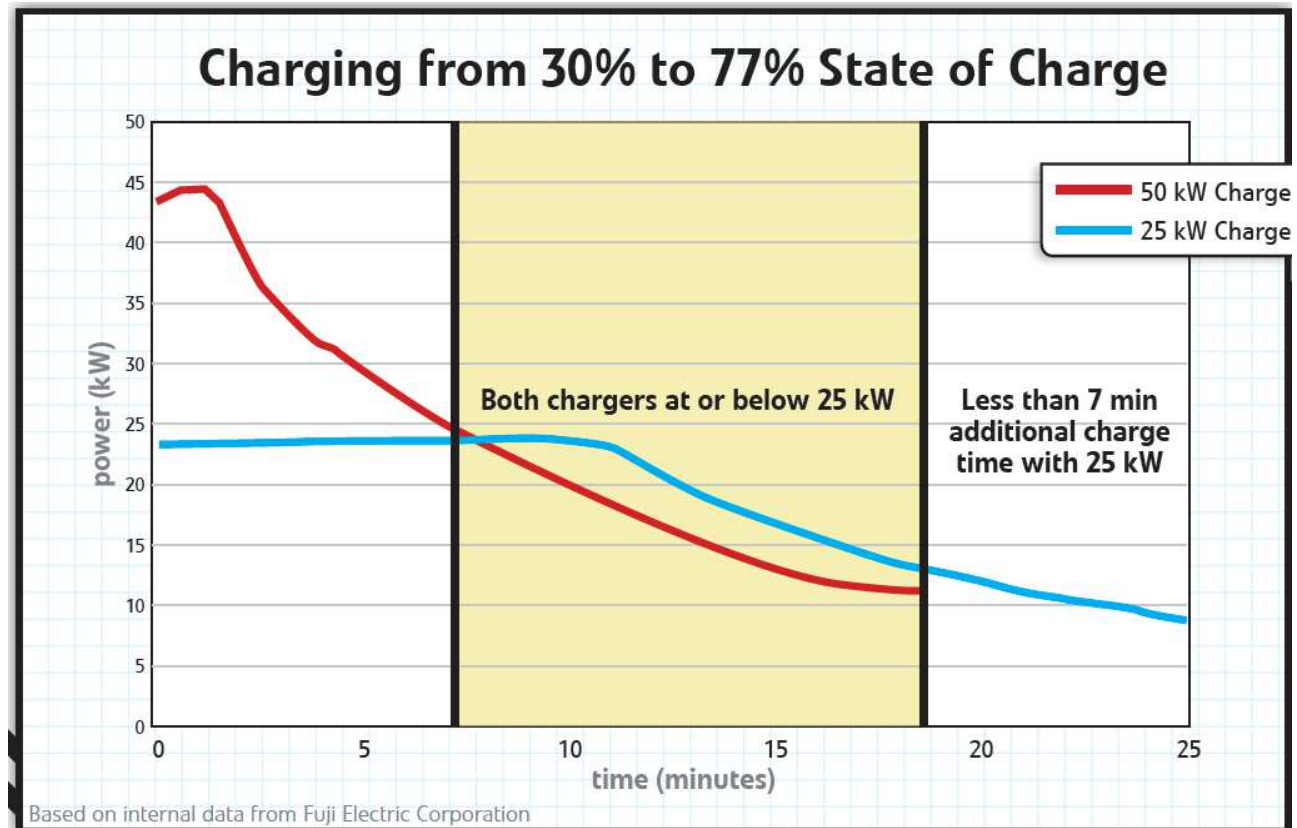
Average power that is usable

25kW vs. 50kW charge power

Fuji Electric to launch new EV charging stations in North America

ABR Staff Writer

N Published 25 January 2013



EVite – deployment



EVite map

In the default visualization all the filters are activated:

- free area
- reserved area
- assigned area
- CHAdeMO non-EVite
- 3-Phases non-EVite

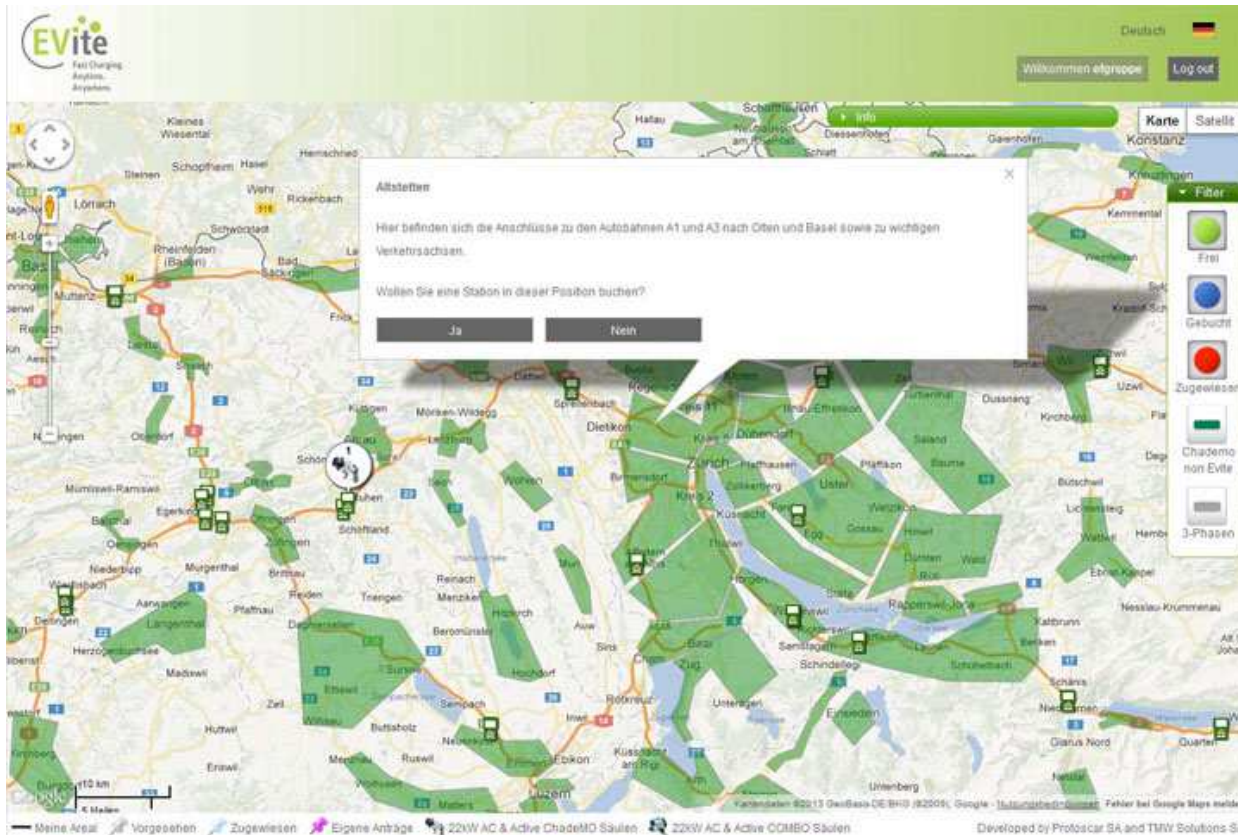


EVite map



EVite map

1.) Reservation



- Click on a green area to get its description
- Click on “Ja” if you wish to send a reservation request
- The same happens when clicking on a motorway icon

EVite map

2.) Reservation accepted



- When the request has been accepted, the area turns blue
- During a defined time period you send EVite a final confirmation which ensure installation of a Fast Charger

EVite map

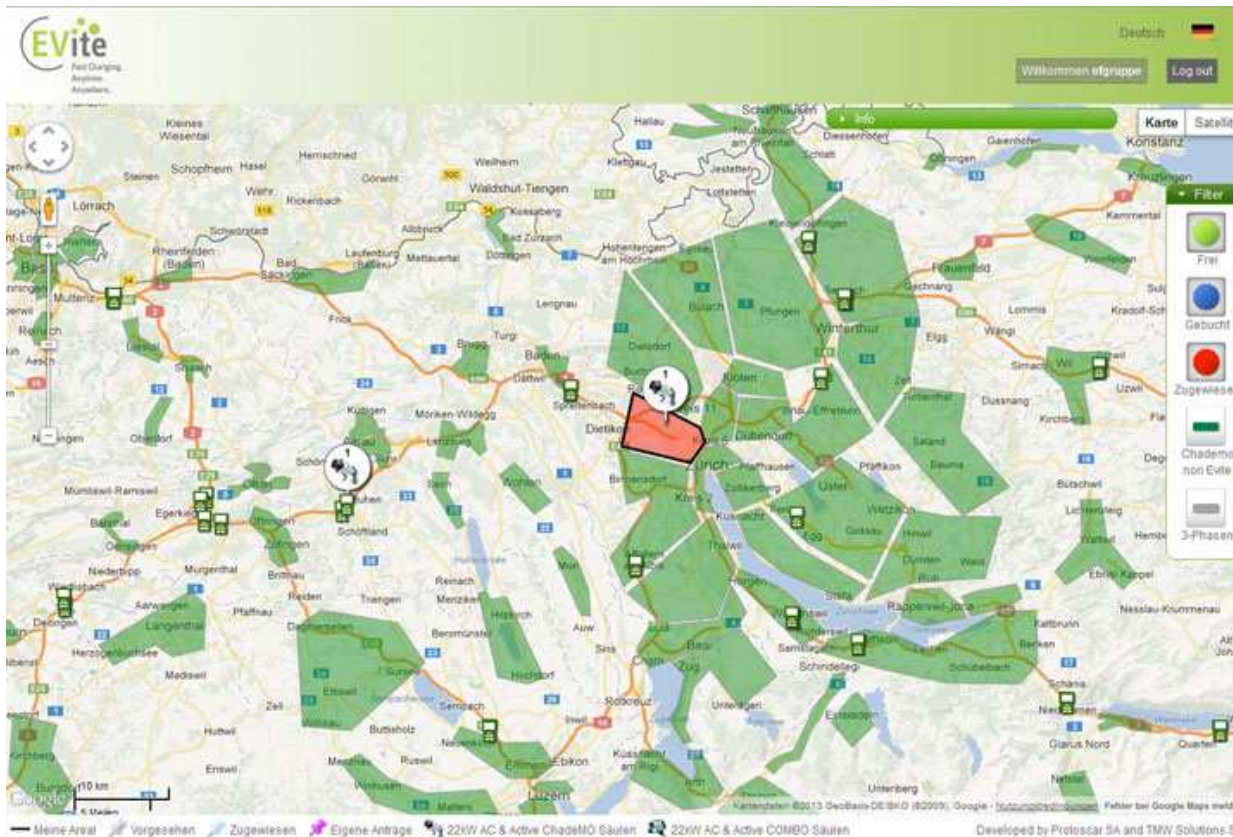
3.) Final confirmation



- After your final confirmation, the area becomes red, indicating that the area has been assigned definitively

EVite map

4.) Registration



- When you confirm that EVite Fast Charger is in service, the Fast Charger icon (CHAdEMO, Combo or both) and the number of plugs appears on the area

Product configurator

<http://configure.andcharge.com>

start by products
choose family
choose product
configure product








fee&charge CHAdeMO	coffee&charge combo2	move&charge CHAdeMO	move&charge combo2	shop&charge berlin	shop&charge classic
Fast	Fast	Fast	Fast	Accelerated	Normal
CHAdeMO cable 5m	Combo2 cable 5m	CEE 400V 3x32A	CEE 400V 3x32A	2x Type2 3x16A	2x CEE 230V 1x16A
Type2 3x32A socket	Type2 3x32A socket	CHAdeMO cable 3m	Combo2 cable 3m	2x Type2 3x32A	CH Typ13 230V
IP54 (-25°to 45°C)	IP54 (-25°to 45°C)	IP54 (-25°to 45°C)	IP54 (-25°to 45°C)	IP44 (-20°to 45°C)	IP44 (-20°to 45°C)
Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	Outdoor	Outdoor
No Basement	No Basement	Mobile	Mobile	Protection arch	Protection arch
Basement	Basement	RFID Reader	RFID Reader	Basement	Basement
Surface mounting kit	Surface mounting kit	RFID Reader	RFID Reader	No Basement	No Basement
RFID Reader	RFID Reader	RFID Reader	RFID Reader	Surface mounting kit	Surface mounting kit

Compatible Car Type











Mitsubishi iMiev 2012
Mitsubishi iMiev 2013
Nissan ENV200
Nissan Leaf
Opel Ampera
Peugeot 106
Peugeot Partner
Peugeot iOn
Porsche

Product configurator

<http://configure.andcharge.com>

start by products
choose family
choose product
configure product

🔗 Frame Color:

MFC Frame Blue

Frame orange

MFC Frame Red

🔒 Authentication System

RFID Reader

💳 Payment System

Mobile Payment

⚡ Charge Power


- Fast

⚡ Inlet

- CEE 400V 3x32A

🔌 Outlet

- CHAdeMO cable 3m mode4



Product Information (en)

request offer



Your Partner for Electric Vehicles and Charging Infrastructure

Markus Kramis
EVTEC AG
www.evtec.ch

