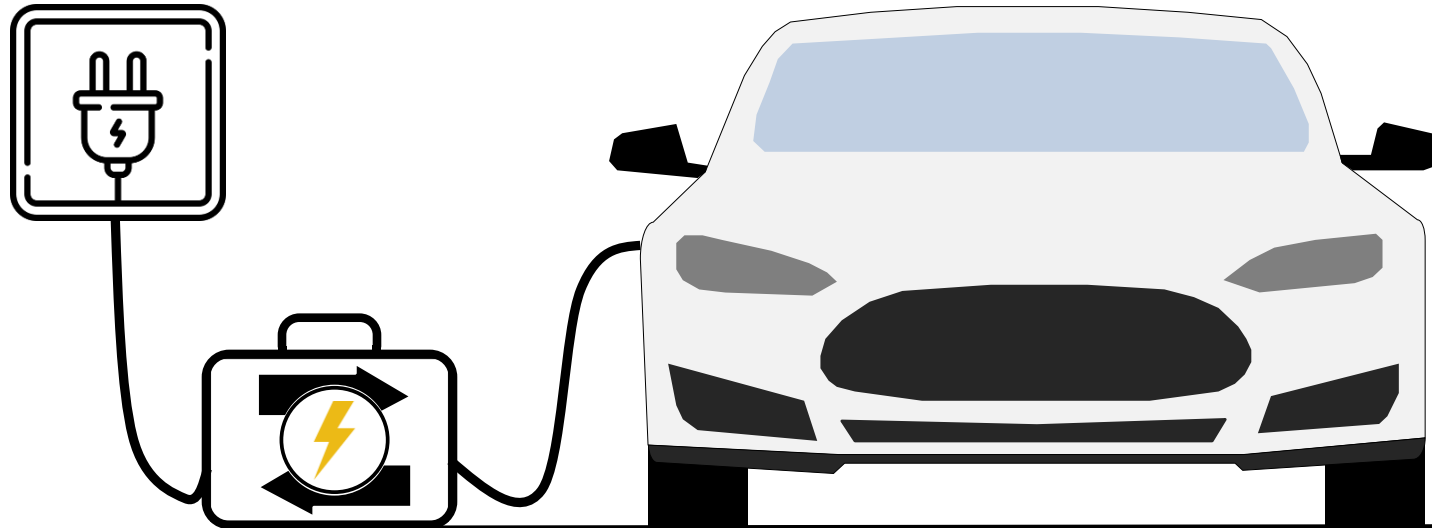


# V2H Pocket: Vehicle to Home Pocket

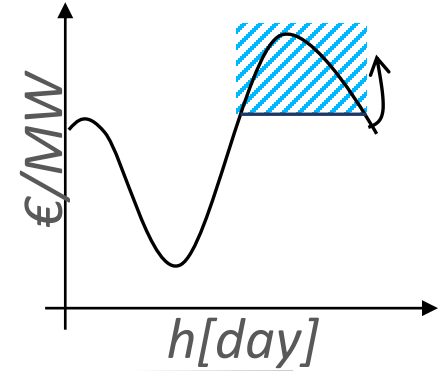
*March 2022*

### V2H pocket

## Standard Schuko plug 230 V



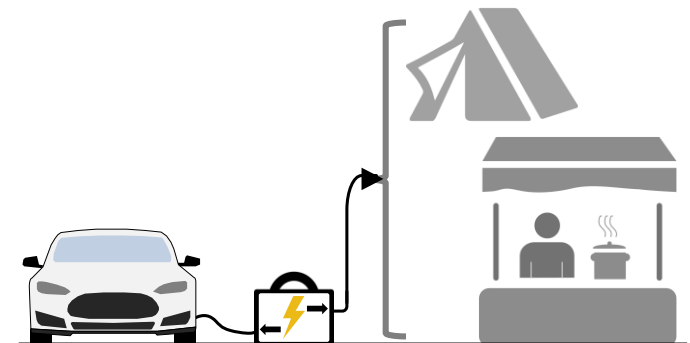
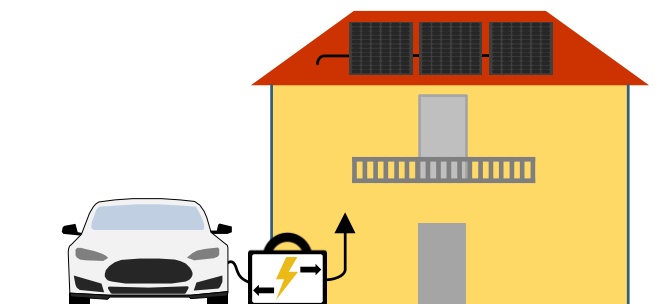
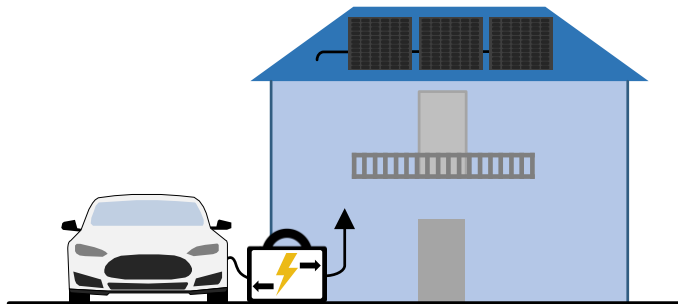
- Peak shaving
- Demand flexibility



Vehicle to your home

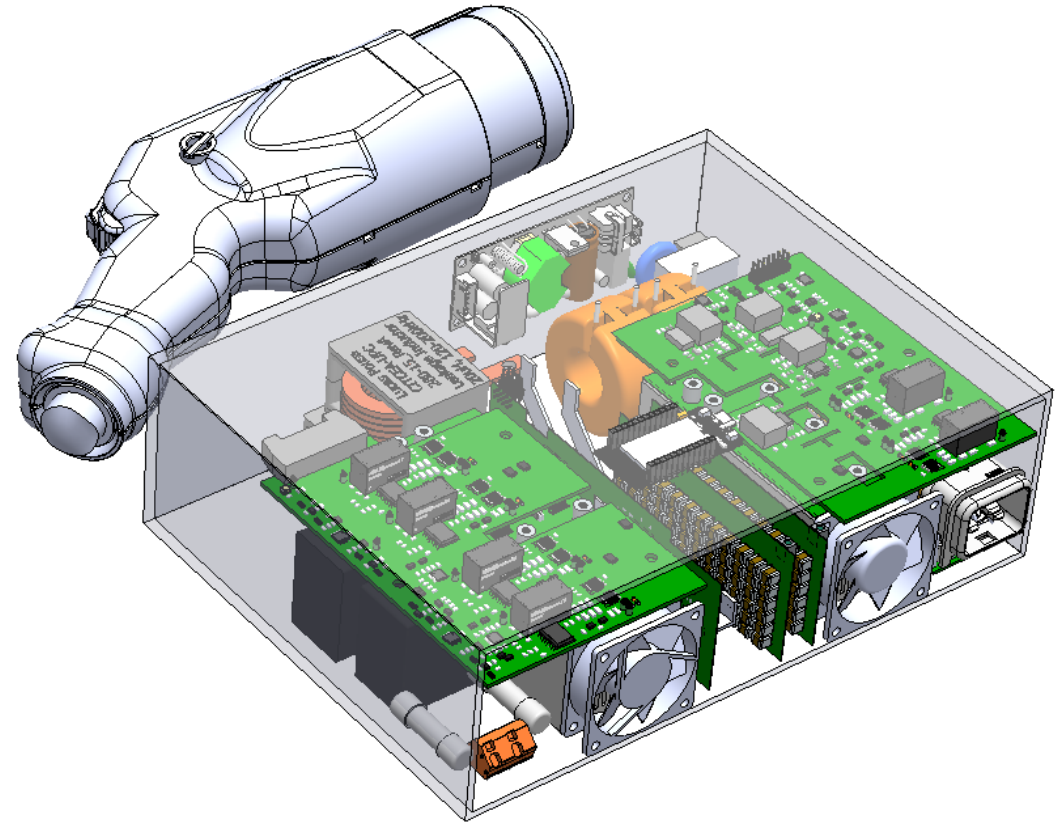
Vehicle to anyone's home

Street events, campings...



### V2H pocket

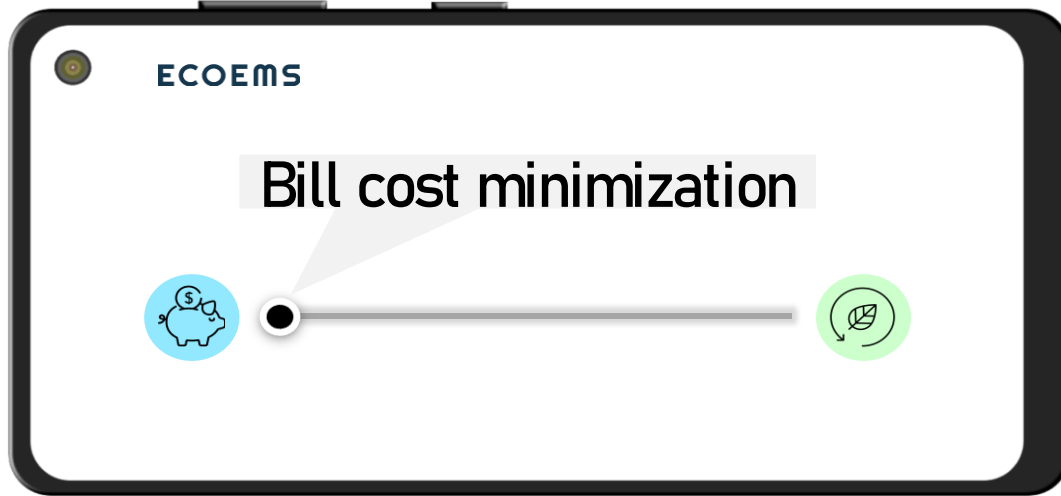
- Bidirectional vehicle charger
- Single phase, 230 V, 16 A, 3,7 kW
- DC output 50 V – 550 V, 16 A
- Size: 270x210x90 mm
- GaN and SiC devices for high frequency losses with soft-switching strategies
- DAB high-frequency isolation
- Wifi connectivity
- CHAdeMO protocol integrated
- Anti-islanding algorithm



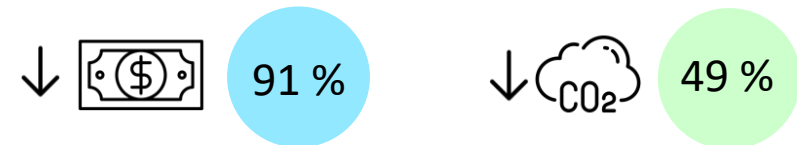
# 1. Technology

## 1.3. EMS (Energy Management System)

### V2H pocket



- AI for demand and PV generation forecasting
- CO<sub>2</sub> emission and bill cost optimization algorithm considering LCA (Life Cycle Analysis)
- Case study Sant Cugat with PV 3,5 kW (10/09/2021)



**Thank you for your attention!**

**Any questions?**

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