VOOL

Full-Scale EV Charging Solutions that Raise the Bar

VOOL



Smart EV Charger Charge with confidence



Load Management ControllerGet the full grid connection



VOOL App Save up to 90% on your EV charging costs



VOOL PortalFull control of any charging facility

VOOL EV Chargers: Charge with Confidence

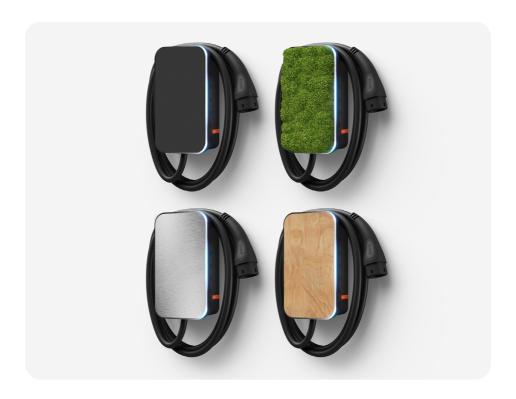


VOOL EV Chargers: Charge with Confidence

Our carefully crafted EV Chargers conquer the failures of lesser chargers. They're right at home at residential and commercial properties, and perfectly suited for EV fleets and public charging as well.

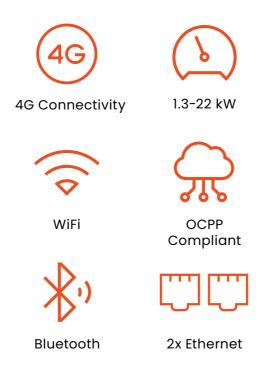
VOOL Chargers are easy on the eyes. They come in a diverse range of charismatic face plates to add flair, elegance, or a modest accent to your property.

Beauty is power.





VOOL EV Chargers: Charge with Confidence





VOOL EV Charger Datasheet

FEATURES

User identification	RFID, VOOL APP
Dynamic load management	DLM (2) and DPM (2)
DLM response time	Below 50ms (2)
Compatible EVSE protocols	OCPP 1.6, OCPP 2.0.1
Energy metering	Integrated
Firmware update	OTA, USB, CAN

- (1) 2-Phase charging only available with compatible EV models; 3-phase grid connection required
- (2) Connection with VOOL Hub is required $\,$ (3) Various material / colour or fully customised faceplates are available

EXTERNAL INTERFACES

Internet connectivity	4G, Wi-Fi (IEEE 802.11 b/g/n), Ethernet 10/100
External modbus meter	RS485
Local device network	CAN

SAFETY

Residual Current Detection	6mA DC / 30 mA AC
Overvoltage category	CAT III
Compliance	LVD, RoHS
Protection against electric shock	CLASS
Extra safety features	Welded contact detection, power-on self-test, thermal throttling

GENERAL SPECIFICATIONS

Dimensions (H x W x D)	310 x 186 x 90 mm
Weight	4 kg
Mounting options	Bolt mounted to the wall, mounting pole
Front panel	Prebuilt and interchangeable (3)
Operating temperature	-25+65 ½C
Ambient temperature range	-40+70 ¼C
Enclosure environmental rating	Outdoor / IP54
Standards	EMCD 2014/30/EU, IEC 61851-1:2017, IEC 61851-21-2:2018, IEC 62955:2018
Standard warranty	36 months
Operating voltage	90-265 VAC
AC frequency	50Hz or 60Hz
Charging options	1 Phase, 2 phase (1), 3 Phase
Current	6A-32A
Power	1,3 Đ 22kW
Output cable	Type 2 socket or fixed cable with plug

Quick and Scalable Installation

VOOL

Quick and Scalable Installation

VOOL Chargers can be installed on most walls and any of our stylish mounting posts. With VOOL, it's quick and hassle-free.

If you don't need a VOOL charger just yet but want to make your property ready for full installation, we've thought of that too.

Our modular design allows you to mount the casing first and complete the setup at a later stage by snapping in VOOL'S EV Charging Controller.





1. Choose your surface. You can install the VOOL charger on a wall or a VOOL mounting pole.



2. Insert the EV Charging Controller - or don't. The VOOL EV Charging Controller can be inserted later if all you need right now is EV-charger readiness.



3. Snap on the front panel. It has an LED light guide to indicate charger status.



4. Install the **VOOL LMC** in the electrical cabinet for Dynamic Load Management and Uninterrupted Phase Switching.



5. Easy and intuitive setup via the **VOOL App or VOOL Portal**

VOOL LIMC: Get the Full Grid Connection



VOOL LMC: Get the Full Grid Connection

As electric car adoption soars, the grid faces challenges in meeting the surge in EV charging demand.

A dedicated home charging station can deliver between 7.4 and 22 kilowatts (kW) of power. In comparison, a dishwasher uses between 1.05 and 1.5 kW of power.

The current power grid simply can't handle the demand. Unless you go with VOOL.

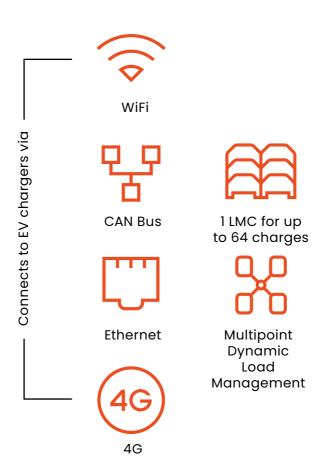
The VOOL Load Management Controller is installed in your electrical cabinet, and it automatically balances the total energy level between your EV Charger and your building.

VOOL's patent-pending technology enables you to cost-effectively extract the full power of the grid. Now you can charge up to three times more cars with the same grid connection.





VOOL LMC: Get the Full Grid Connection





VOOL LMC: Get the Full Grid Connection



Autonomous Charging -Uninterrupted Phase Switching

Seamlessly transfer between the three phases to reach full grid connection and get the most dependable and efficient EV charging experience.



Electrical Equilibrium -Dynamic Load Management

DLM monitors and balances the electrical loads in each of the three phases so the switchboard doesn't overload.



Reliable Power -Multipoint Load Balancing

During peak power demand, each apartment, row house, or property shares a stable electrical load. The main connection point never becomes overburdened.



Connectivity and Integration

The VOOL LMC and EV Charger both feature wireless and wired connections. Easily integrate with solar power systems for peak efficiency.



VOOL LMC Datasheet

FEATURES

Gateway functionality	OCPP 1.6, OCPP 2.0
Energy metering	On-line and off-line energy metering and tracking
Integration	PV panels, batteries
Smart price monitoring	EU markets
Station master	64 chargers + other smart appliances
Dynamic load management	DLM (1) and DPM (1)

(1) In combination with Charger and/or Multiphaser, LMC enables dynamic load management and dynamic phase management for 100% grid utilization.

DLM response time	Below 50ms
Firmware updates	OTA

EXTERNAL INTERFACES

Internet connectivity	4G, Wi-Fi (IEEE 802.11 b/g/n), Ethernet 10/100
External modbus meter	RS485
Local device network	CAN
Current input	3x external current transformer

SAFETY

Overvoltage category	CAT III
Compliance	LVD, RoHS
Protection against electric shock	CLASS

GENERAL SPECIFICATIONS

Operating voltage	90-265 VAC
AC frequency	50 or 60Hz
Dimensions (WxHxD)	85 x 85 x 59 mm
Weight	0.3 kg
Mounting options	DIN-rail, bolt mounted
Operating temperature	-25+65 C
Ambient temperature range	-40+55 C
Cooling	Natural convection
Enclosure environmental rating	Indoor / IP22
Standards	LVD 2014/35/EU, EMCD 2014/30/EU
Standard warranty	36 months

VOOL App: Save up to 90% on Charging Costs



VOOL App: Save up to 90% on Charging Costs



Automatic detection and charging in sync with the lowest market rates across Europe.

Authenticate users via mobile or RFID.

Works with all major EV car brands



Works with all OCPP 1.6 & 2.0 compatible chargers

Display your EV's charging session status.

Get a monthly overview of electricity consumption and extract reports.





VOOL Portal: Full Control of any Charging Facility

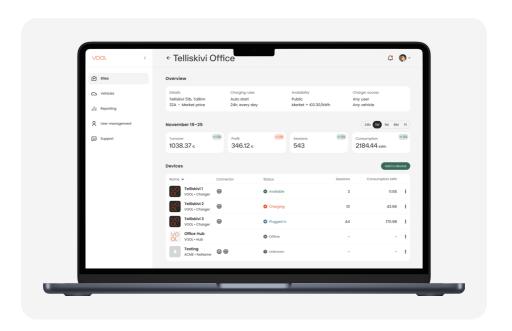


VOOL Portal: Full Control

We have another secret weapon in our arsenal designed to reinvent how you handle your EV charging operations. The VOOL Portal is the intuitive, versatile, and user-friendly web application you need to prepare for the EV revolution.

The VOOL Portal allows for easy administration of any charging facility:

- Seamlessly integrate with 1.6 and 2.0 OCPP-compliant chargers
- Measure consumption by they user and for entire facilities
- Authenticate user with RFID
- Set electricity prices and margins
- · Generate reports of electricity consumption by user
- Enable payment flow
- Add chargers and make them public

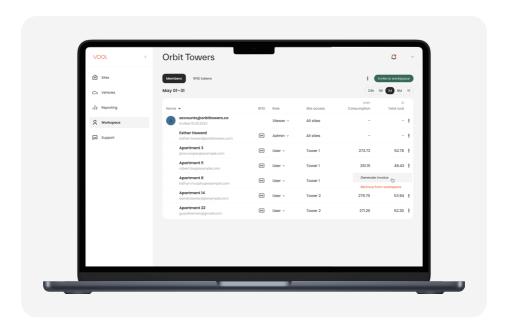


Apartment and Office EV Charging

The incoming surge of EV adoption and new EU regulations mean you're going to need to upgrade your parking spaces. Our solutions not only elevate satisfaction among residents and office tenants but also contribute to boosting property value.

Enjoy superior charging management tailored to your needs:

- Consumption reports by apartment
- Automatic invoicing integration
- Load balancing
- Electricity consumption tracking per charger
- Authentication
- Detailed charging cycle overview
- Smart charging functionality



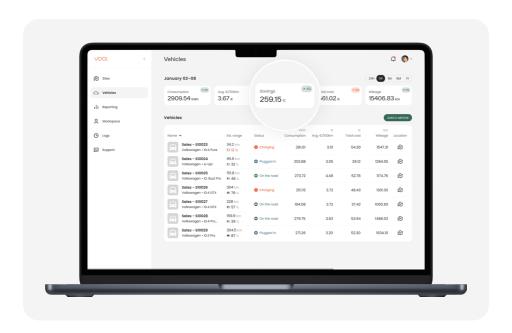


EV Fleet Charging Management

Keep your EV fleet charged and on the move, optimize your business operations, and improve your bottom line. VOOL provides a complete EV Fleet Charging Management solution for fleets of any size.

Complete overview by vehicle and for the whole fleet:

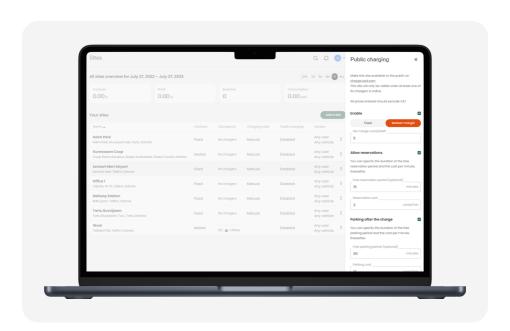
- Vehicle status: Charging, Plugged In, On the Road
- Consumption in kWh and cost (EUR) for any selected time period by individual vehicle, and the entire fleet
- Mileage driven and current location





Public EV Charging

- Integrate any OCPP 1.6 & 2.0 compliant charger with the VOOL Portal
- Choose your electricity contract type fixed or variable
- Set your desired profit margin
- Make your charger public and visible on Google Maps
- Earn extra revenue



For more information, support, or inquiries, please reach out to us at

info@vool.com

VOOL