



# ZapCharger Pro

PRODUCT SHEET



## ZapCharger Pro is a unique Norwegian charging system

Works on all powergrids, with all types of rechargeable vehicles\*

### Use all available capacity

The power is dynamically shared across all charging stations. Allows you to charge over 100 electric cars in 1 day, on a simple 63A\*\* fuse. Charge up to 22kW at all charging stations.

### Unique scaling options with a single circuit and power cable

The communication between the charging stations and the cloud solution runs through the same power cable. This shared infrastructure makes it possible to start with few charging stations and expand when the need increases. Scaling of an existing installation therefore requires no additional work or investment in the fuse cabinet.

### Fair use through identification using RFID or ZapCharger app

Built-in energy meter provides precise consumption, shared garage or parking space can be assigned and paid for by each user.

### Safety to the highest standard

Type 2 connector that can withstand high loads over time, integrated fuses, electronic ground fault protection, Soft Start function and temperature sensors are built into the charging station for safety for both the user and the power grid.

### Future proof and intelligent charging solution

Combines power electronics, embedded software running on the charging station and a cloud solution for configuration, monitoring, and advanced algorithms. The solution is future-proof with software updates from the cloud solution to the charging station.

\* Provided that the vehicle supports the current type of power supply.

\*\* With 3-phase TN in 24 hours.

# ZAPTEC

# Technical specification ZapCharger Pro

ZapCharger Pro is an alternating current wall- or column-mounted charging station in accordance with IEC 61851-1, EVSE mode 3.

## Dimensions and weight

H: 392 mm, W: 258 mm, D: 112 mm

Weight: approximately 5 kg (including backplate)

## Installation network

TN, IT and TT

## Installation circuit

Max 63A connected fuse on installation circuit for charging stations.

## Connection box

Cable cross section 2.5-10 mm<sup>2</sup>

Cable diameter 10-20mm

## Installation network, voltages

230VAC ±10%

400VAC ±10%

## Max charging current and power

7.36 kW\* at 32A single phase

22 kW\* at 32A three phase (applies only to TN networks)

## Fuses

Built-in 3 x 40A type C fuses

## Charging socket

IEC 62196-2 Type 2 Female

## Earth fault protection

Built in RCD type B

Calibration and self-test are performed prior to start of every charge cycle. The RCD is automatic reset by unplugging the charging plug.

## Soft start

Limits the inrush current at the start of charging.

## eMeter

Integrated in the charging station with an accuracy of +/- 1 % on current and voltage. This enables the user check the actual power usage. In an installation, the consumption report can be used to distribute the cost based on use.

## Theft protection

The front cover of the ZapCharger Pro can only be opened with a special tool. The charging cable can be permanently locked with the charging station.

## Phase distribution

In a system with other identical charging stations, the units will select the least loaded phase for one phase charging or use all three phases for 3-phase charging.

## Load distribution

In a system with other identical charging stations, the power available in the installation will be shared between the units by adjusting the phase current and phase distribution dynamically.

## Communications interface and cloud connection/network

WiFi 2.4 GHz, IEEE 802.11 b/g/n (channels 1-11)

PLC – HomePlug Green PHY®, 10 Mbit/s

## Identification and configuration

Bluetooth Low Energy (BLE 4.1)

RFID/NFC reader

## Standards and approvals

CE in accordance to Radio

Equipment Directive 2014/53/EU

and the ROHS directive 2011/65/

EU and compliance to IEC 61851-1

and IEC 61851-22

## Temperature range

-30°C to +50°C

## Enclosure rating

IP54, indoor and outdoor use.

IK10 impact protection

UL94 - 5VB flammability rating

UV resistant

## Electrical protection

Protection Class II (4kV AC and 6kV impulse, isolation)

Overvoltage Category III (4kV)

## Integration Services

3rd Part integration options

(API, Webhooks)

OCPP 1.6j

Message Subscription

*\*32A current is available but limited by the temperature builds up inside the charging station.*

