

power your future



# Electric vehicle charging stations EV-C type

60 kW | 90 kW | 120 kW | 150 kW



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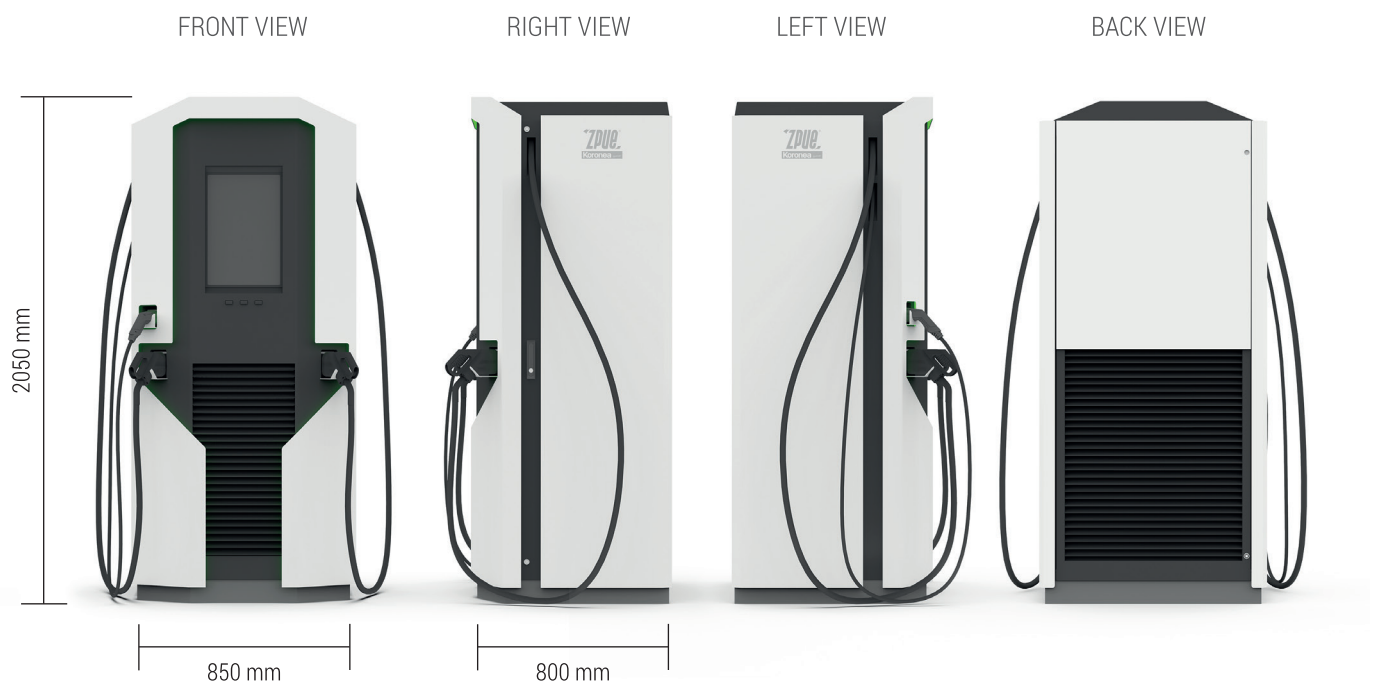
The available DC power is 60 kW, 90 kW, 120 kW or 150 kW, which is easily scalable and will allow you to keep up with the development of the electric vehicle market, and also to adapt to the needs of customers.

## Main advantages

- Short charging time (80% in 20 minutes\*),
- Integrated with all charging service operators,
- The dynamic distribution of charging power allows for the simultaneous charging of up to three vehicles to maximise the charging potential,
- Modern design and a customisable appearance (brand markings and colour),
- Easy and intuitive use,
- After-sales support,
- Polish product. 🇵🇱

\* depending on the capacity and technology of the battery

## Electric vehicle DC charging stations:



|                              |   | EV-C60  | EV-C90               | EV-C120 | EV-C150 |
|------------------------------|---|---|----------------------|---------|---------|
| AC POWER SUPPLY              | U <sub>ac</sub> voltage                                 | 3 x 400 V / 50 Hz   |                      |         |         |
|                              | Power connection  | 90 kVA  | 123 kVA              | 156 kVA | 189 kVA |
|                              | Power factor  | ≥0,99 (at full load)  |                      |         |         |
|                              | Efficiency  | ≥ 95% (for an output power above 50%)   |                      |         |         |
|                              | THDi  | ≤5 %  |                      |         |         |
|                              | Energy metering   | metering conforming to the MID  |                      |         |         |
|                              | Earthing system   | TN-S, TN-C, TN-C-S (other configurations available upon request)              |                      |         |         |
| CHARGING WITH DC CURRENT     | Rated power   | 60 kW   | 90 kW                | 120 kW  | 150 kW  |
|                              | U <sub>dc</sub> voltage                                 | 150 ÷ 1000 VDC  |                      |         |         |
|                              | I <sub>dc</sub> current                                 |   |                      |         |         |
|                              |   | 0 ÷ 200 A: CCS typ 2  | 0 ÷ 250 A: CCS typ 2 |         |         |
|                              | Number of connections                                   | 2   |                      |         |         |
|                              | Number of connections that can be used at the same time | 1   | 2                    |         |         |
|                              | Type and number of plugs                                | 2X CCS2<br>CCS2+CHAdeMO<br>(upon request)                                     | CCS2 + CHAdeMO       |         |         |
|                              |   |   | 2xCCS2               |         |         |
| Length of the charging cable | 4,2 m <sup>±5%</sup>                                    |   |                      |         |         |
| CHARGING WITH AC CURRENT     | Rated power (Optional)                                  | 22 kW   |                      |         |         |
|                              | Voltage, frequency                                      | 400 V, 50 Hz  |                      |         |         |
|                              | I <sub>ac</sub> current                                 | 32 A  |                      |         |         |
|                              | Number of connections                                   | 1   |                      |         |         |
|                              | Plug type   | AC typ 2  |                      |         |         |
|                              | Length of the charging cable                            | 4,2 m <sup>±5%</sup>  |                      |         |         |
| COMMUNICATION                | Authorisation   | RFID, PIN code, operator's application  |                      |         |         |
|                              | Protocol  | OCPP 1.6J, OCPP 2.0.1   |                      |         |         |
|                              | External communication                                  | GSM: 3G/4G LTE, Modbus TCP/IP   |                      |         |         |
| USER INTERFACE               | Display   | HMI 15" touch panel   |                      |         |         |
|                              | LED indicators  | indicator lights showing the charging station status                          |                      |         |         |
|                              | Safety  | integrated emergency stop switch  |                      |         |         |
| ENCLOSURE                    | Dimensions  | 850mm x 800mm x 2050mm  |                      |         |         |
|                              | Material  | powder-coated stainless steel   |                      |         |         |
|                              | Operating temperature                                   | from -30°C to +50°C (the output power may be reduced at temperatures > +40°C) |                      |         |         |
|                              | Relative humidity                                       | ≤ 95% (not condensed)   |                      |         |         |
|                              | Protection Rating                                       | IP54 / IK10   |                      |         |         |
|                              | Weight  | 470 kg  | 500 kg               | 530 kg  | 570 kg  |
| CONFORMITY TO STANDARDS      | Charging  | IEC 62196-1, IEC 62196-2, IEC 62196-3, IEC 61851-1, CHAdeMO rev.1.2           |                      |         |         |
|                              | Communication   | IEC 61851-23, IEC 61851-24, IEC 62479-1, DIN 70121                            |                      |         |         |
|                              | General   | CE, EN 60529, EN 62262, IEC 61851-21-2, LVD 2014/35/UE                        |                      |         |         |

#### OPTIONAL EQUIPMENT AND ACCESSORIES \*

"OVER THE AIR" firmware updates

Payment terminal

Charging station branding

DC electricity meters at the charging point

Change of charging cable length, Type-2 charging socket

Precast foundation

Suitable for further expansion (up to 150 kW)

\* – selection of extra equipment results in a change of price and longer lead time.

## ALLOCATION OF POWER TO THE CONNECTORS

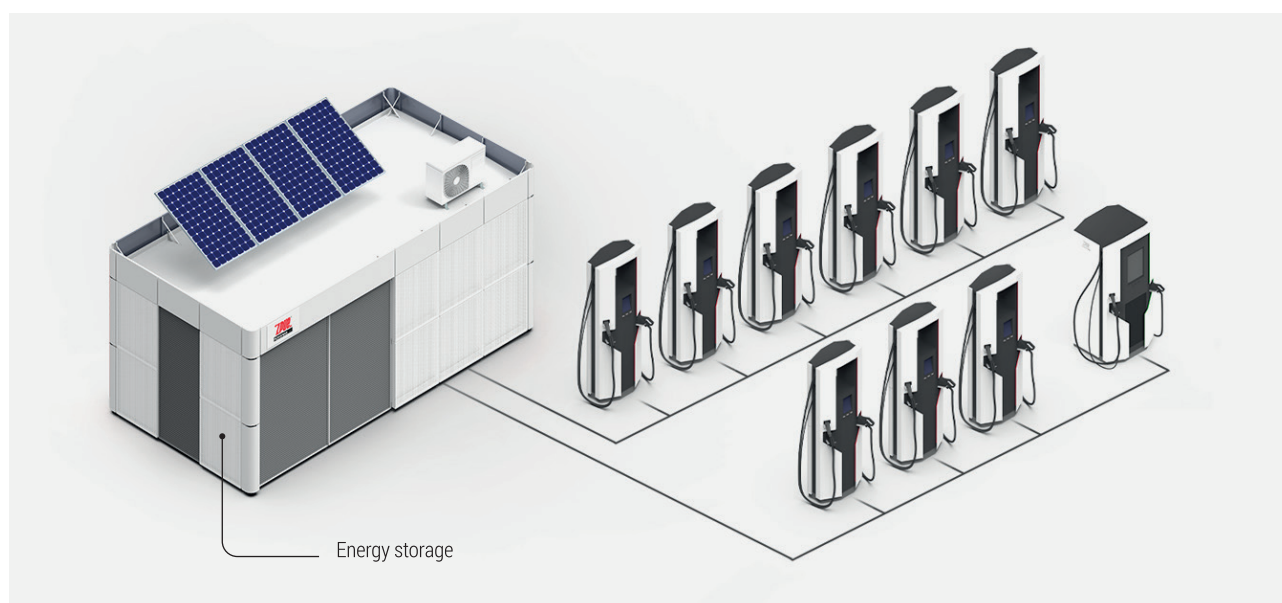
| EV-C60 * different allocation available upon request |       |                             |
|--|-------|-----------------------------|
|  | CCS2  | CCS2 (CHAdeMO upon request) |
| 1.   | 60 kW | -                           |
| 2.   | -     | 60 kW                       |

| EV-C120 |        |                             |
|---------|--------|-----------------------------|
|         | CCS2   | CCS2 (CHAdeMO upon request) |
| 1.      | 120 kW | -                           |
| 2.      | 60 kW  | 60 kW                       |

| EV-C90 |       |                             |
|--------|-------|-----------------------------|
|        | CCS2  | CCS2 (CHAdeMO upon request) |
| 1.     | 90 kW | -                           |
| 2.     | 60 kW | 30 kW                       |

| EV-C150 |        |                             |
|---------|--------|-----------------------------|
|         | CCS2   | CCS2 (CHAdeMO upon request) |
| 1.      | 150 kW | -                           |
| 2.      | 90 kW  | 60 kW                       |

## HUB - Electric Vehicle Charging Center



## Main advantages of the HUB

- Prevention of significant load fluctuations during electric vehicle charging,
- Storage of electricity from the distribution grid (e.g., less expensive night tariff) or RES so that it can be used at times when no electricity is generated,
- Security and continuity of supply,
- Optimisation of supply infrastructure, possibility of installing more charging stations,
- Power factor adjustment,
- Lower contracted capacity, reduced demand for electricity from the power grid.

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