



# coffee&charge 3in1

## Low installation and maintenance costs

coffee&charge 3in1 offers 20kW output power. In comparison to 50kW charging stations, there are no high grid connection fees and installation costs, as coffee&charge 3in1 can be easily commissioned „plug&play“ via a conventional CEE plug, for example. Installation is also very simple; the charging station can simply be set up on a level surface with a base plate.

## Easy integration in payment schemes

coffee&charge 3in1 can be tailored to meet the operator's demands. The charging station supports the open-source communication standard OCPP to allow i.e. access, billing and system status monitoring in real time. coffee&charge 3in1 also works without internet connection authorization and billing services via smartphone, RFID cards (whitelist), pin-code. As an operator there's always the optimum solution for your clients.

## Fast and easy installation

coffee&charge 3in1 is installed easily and cost-effectively. There's no need for excessive electrical infrastructure. A simple 32A, 400V AC connection is sufficient to operate the base model. The fast charger can be set up on an open-source opi2020 or on a surface mounting plate.



robust & durable

grid friendly

remote management

multi-standard

## The public charging station!

coffee&charge 3in1, the fast charger for every application, supports the three most important fastcharging standards (DC CHAdeMO, DC Combined Charging System, and AC type 2 mode 3). That allows to charge every electric vehicle.

Depending on individual configuration, the station supplies power for up to two cars at the same time and delivers roughly 3 kilometers of driving range per minute of charging time.

CCS  
connector



CHAdeMO  
connector



Type 2  
socket (optional)





## Fastcharging for everybody



coffee&charge is a part of the proven, tried, and tested &charge 20kW DC fastcharger family of EVTEC. Of course, the DC charger complies with the highest safety & quality standards and was specifically developed for the rough environment of outdoor-use (solid build, collision protection, IP 54 protection). The operation is intuitive and user-friendly. As an example, it is easily possible for the user to see the current power consumption during a charging session. coffee&charge is developed and produced by EVTEC in Switzerland.



- suited for every outdoor application
- no costly power peaks
- full remote control via an OCPP-compatible backend
- charges with DC CHAdeMO&Combo 2 and AC Type 2


### EVTEC AG

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| Technical Specifications |                           |  |   |
|--------------------------|---------------------------|--|---|
| <b>Input AC</b>          | Grid connection           | AC 3-phase + N + PE  |   |
|                          | Input voltage range       | 400V <sub>AC</sub> +/- 10%   |   |
|                          | Nominal input current     | 3 x 32A <sub>AC</sub>  |   |
| <b>1 x AC Output</b>     | Input frequency           | 45 - 65Hz  |   |
|                          | AC Socket                 | IEC 62196, Mode 3, Type 2  |   |
|                          | Nominal AC output power   | 22kW   |   |
|                          | Nominal AC output voltage | 400V <sub>AC</sub>   |   |
|                          | Nominal AC output current | 3 x 32A <sub>AC</sub>  |   |
| <b>2 x DC Output</b>     | Safety                    | - Residual current protection device<br>- Overcurrent circuit breaker<br>- Grounding protection/monitoring |   |
|                          | DC Plugs                  | Plug 1<br>CCS  | Plug 2<br>CHAdeMO   |
|                          |                           |  IEC 62196-3, 4m cable  |  JEVs G105, 4m cable |
|                          | Maximum DC Output power   | 20kW   |   |
|                          | DC Output voltage range   | 170 - 500V <sub>DC</sub> (under load: 50 - 500 V <sub>DC</sub> )   |   |
|                          | Maximum DC Output current | 50A <sub>DC</sub>  |   |
|                          | Power factor (> 50% load) | > 0.99   |   |
|                          | Efficiency                | 93% at full load   |   |
|                          | Safety                    | - Short circuit protected<br>- Overcurr. circuit breaker<br>- Overvoltage protection                       |   |
|                          | <b>General</b>            | Operating temperature  | -20°C to +45°C  |
| Storage temperature      |                           | -40°C to +85°C   |   |
| Relative humidity        |                           | 5% to 95% (without condensation)   |   |
| Protection               |                           | IP 54 (indoor / outdoor use)   |   |
| Collision protection     |                           | Steel frame painted  |   |
| Dimensions (D x W x H)   |                           | 490 x 770 x 2050 mm  |   |
| Mass                     |                           | 100kg  |   |
| <b>Standards</b>         | Electrical safety (xFC1)  | IEC 61851-1, IEC 62479   |   |
|                          | EMC                       | EN 61000-6-1, -2, -3, 4, EN 61000-3-2  |   |
|                          | CHAdeMO                   | Rev. 0.9.1 (certified), Rev. 1.2 (compatible)  |   |
|                          | Combined Charging System  | DIN 70121 (interoperability test BMW, VW, GM)<br>ISO 15118   |   |
| <b>Options</b>           | Access / payment systems  | Smart phone  |   |
|                          |                           | Coin machine: CHF / EUR / others   |   |
|                          |                           | Token coin system  |   |
|                          | Authentication            | RFID system  |   |
|                          | Remote management         | OCPP 1.5, OCPP 1.6 (JSON / SOAP)   |   |
|                          | Collision protection      | Satin stainless steel frame  |   |
|                          | Fixation                  | Steel construction for foundation opi2020  |   |
|                          | Adaptor                   | Surface mounting kit   |   |
|                          |                           | Adaptor Cable Type 2 Socket - Type 1 Connector   |   |
|                          | Connectivity              | Adaptor Cable Type 2 Socket - Tesla Roadster<br>Ethernet, GSM / GPRS / UMTS or Powerline                   |   |

the &chargefamily: [www.andcharge.com](http://www.andcharge.com)




 **espresso&charge**  
 Up to 165kW DC + 65kW AC charging for all vehicles. Charges up to four cars at the same time.



 **cappuccino&charge**  
 64kW DC, including dynamic load management and a color display, allow easy and fast charging of all EV's.



 **coffee&charge**  
 Quick and easy charging with up to 20kW DC + 22kW AC. Billing and bi-directional charging possible.



 **move&charge**  
 Plug&play 20kW DC + optional 22kW AC charging. For fleet operators, repair shops and spontaneous use.



 **sospeso&charge**  
 With the 10kW DC charger, your EV can easily be connected to your house or business.