



coffee&charge 3in1

Low installation and maintenance costs

coffee&charge 3in1 offers 20 kW output power. In comparison to 50 kW 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 32 A, 400 V 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 20 kW 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


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Technical Specifications						
Input AC	Grid connection	AC 3-phase + N + PE				
	Input voltage range	400 V _{AC} +/- 10%				
	Nominal input current	3 x 32 A _{AC}				
	Input frequency	45 - 65 Hz				
1 x AC Output	AC Socket	IEC 62196, Mode 3, Type 2				
	Nominal AC output power	22 kW				
	Nominal AC output voltage	400 V _{AC}				
	Nominal AC output current	3 x 32 A _{AC}				
	Safety	- Residual current protection device - Overcurrent circuit breaker - Grounding protection/monitoring				
2 x DC Output	DC Plugs	<table border="0"> <tr> <td>Plug 1 CCS</td> <td>Plug 2 CHAdeMO</td> </tr> <tr> <td> IEC 62196-3, 4m cable</td> <td> JEVS G105, 4m cable</td> </tr> </table>	Plug 1 CCS	Plug 2 CHAdeMO	 IEC 62196-3, 4m cable	 JEVS G105, 4m cable
	Plug 1 CCS	Plug 2 CHAdeMO				
	 IEC 62196-3, 4m cable	 JEVS G105, 4m cable				
	Maximum DC Output power	20 kW				
	DC Output voltage range	170 - 500 V _{DC} (under load: 50 - 500 V _{DC})				
	Maximum DC Output current	50 A _{DC}				
	Power factor (> 50% load)	> 0.99				
	Efficiency	93% at full load				
	Safety	- Short circuit protected - Overcurr. circuit breaker - Overvoltage protection - Low-voltage protection - Insulation protection - Grounding protection				
	General	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		100 kg				
Standards	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) ISO 15118				
Options	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 Surface mounting kit				
	Adaptor	Adaptor Cable Type 2 Socket - Type 1 Connector Adaptor Cable Type 2 Socket - Tesla Roadster				
	Connectivity	Ethernet, GSM / GPRS / UMTS or Powerline				

the &chargefamily: www.andcharge.com




 **espresso&charge**
 Up to 150 kW DC + 65 kW AC charging for all vehicles. Charges up to four cars at the same time.




 **cappuccino&charge**
 Two times 25 kW 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 20 kW DC + 22 kW AC. Billing and bi-directional charging possible.



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



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