espresso&charge

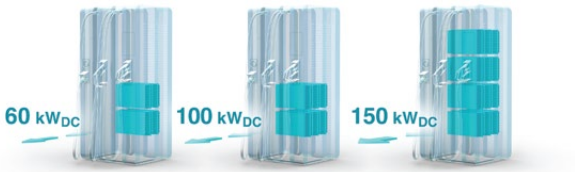
OUTPUT 215 KW – UP TO FOUR SIMULTANEOUS CHARGES
DC POWER 150 KW 170-940V

Ready for BEV, trucks and busses

espresso&charge provides up to 150 kW DC + 65 kW AC and features all fast charging standards of all European, Asian and American car manufacturers. Therefore it is ready for current and next generation vehicles. espresso&charge offers different payment- and access-systems and is an ideal fit for places with high traffic volume such as motorway service areas or for fleet maintenance applications.

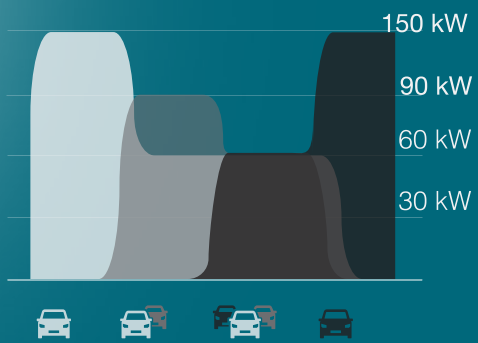
4 simultaneous charges
Cloud & Remote Management
Smart Grid Ready
Optional Grid Buffer Battery

Adaptable DC-Power up to 150 kW



extendable & flexible: The total DC power output is adaptable by adding additional Power Units. Like this, the charger can be tailored to local market needs. The standard model features 60 kW DC + 60 kW AC.

Dynamic Power Management



espresso&charge adjusts the output power of its plugs during parallel charging sessions to meet the connected cars needs optimally.
“Dynamic DC-Power Splitting” is an optional feature.

Type 2
Connector

CCS
Connector

CHAdeMO
Connector

Type 2
Socket (optional)

Technical Specifications espresso&charge			
General	Operating temperature	-20°C to +45°C	
	Storage temperature	-40°C to +85°C	
	Relative humidity	5% to 95% (without condensation)	
	Protection	IP54 (indoor / outdoor use)	
	Dimensions (B x H x T)	930 mm x 2000 mm x 850 mm	
	Mass	approx. 400 kg	
Standards	Electrical safety	IEC 61851-1, IEC 61439-2	CE
	EMC	EN 61000-6-1,-2, -3, 4 EN 61000-3-2	
	CHAdeMO	Rev 0.9.1 (certified), Rev 1.0.1 (compatible) Plug JEVS G105	
	Combined Charging System (CCS)	DIN 70121 (interoperability test BMW, VW, GM) Plug IEC 62196-3	
Input AC	Grid connection	AC 3-phase + PE	
	Input voltage range	400 V_{AC} ± 10%	
	Nominal input current	3 x 32 A_{AC} - 3 x 300 A_{AC}	
	Input frequency	45 - 65 Hz	
AC Output Plug	AC Plug	IEC 62196 Mode 3, Type 2	
	Nominal AC output power	43 kW	
	Nominal AC output voltage	400 V_{AC}	
	Nominal AC output current	3 x 63 A_{AC}	
	Safety	Residual current operated device (type B) Overcurrent circuit protection Earth monitoring	
AC Output Socket (option)	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 operated device (type B) Overcurrent circuit protection Earth monitoring	
DC Output	DC Plug	Plug 1 Combined Charging Syst. IEC 62196-3	Plug 2 CHAdeMO JEVS G105
	Maximum DC output power	20 kW to 150 kW	
	DC Output voltage range	170 V_{DC} to 1000 V_{DC}	
	Maximum DC output current	50 A_{DC} to 300 A_{DC}	
	Power factor (50% load)	> 0.99	
	Efficiency	93% at full load	
	Safety	Short circuit protected output Overcurrent circuit breaker Overvoltage protection Low-voltage protection Isolation monitoring Earth monitoring	
Options	Backend Interface	OCPP 1.5	
	Access/payment systems	RFID Authentication Payment by smartphone	
	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 (3G-Modem) Powerline	

we reserve the right of error and technical modifications.

Supercharger for everybody:
– single charge 150 kW DC
– charge voltage up to 1000V
– four simultaneous charges
– all fast charging standards

espresso&charge: THE multi standard fast charging station in the highest power class: Designed for electric vehicles of current and future generations.

- all AC outputs feature a remotely re-engageable type B residual current circuit breaker
- User Interface: 7'' color display, Languages: DE, EN, FR, IT, integrated RFID scanner
- operates at low temperatures
- ready to charge utility vehicles
- compatible to opi 2020 open source foundation

Options

- DC power output from 20 kW to 150 kW: extendable in steps of 10 kW, standard version features 60 kW
- additional AC type 2 socket with type B residual current circuit breaker
- configurations with combinations of different charging standards possible
- authentication and payment via backend interface (OCPP)
- service packages for service exploitation: Hubject Payment System (QR-Code), remote management, software updates, integration support for OCPP backend's

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the **&charge**family: www.andcharge.com

espresso&charge
up to 150 kW DC + 60 kW AC for public areas and fleet users. Charges up to four cars simultaneously, all standards.

coffee&charge
For public areas and fleet users. Payment and access systems available.

move&charge
For fleet users, car dealers, temporary substitution of stationary DC-chargers and EV-events.

shop&charge
For public areas and fleet users. Access systems available (Park & Charge/RFID).

sleep&charge
CEE Plug interface to the grid. Mode 3 safety and regulated charge.

Protoscar
CLEANCAR SHAPERS