



espresso&charge

**CHARGES UP TO FOUR CARS SIMULTANEOUSLY
UP TO 180 kW TOTAL OUTPUT POWER**

Ready For Electric Cars of the Next Generation

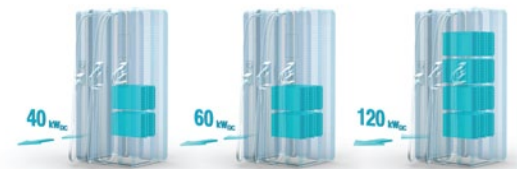
espresso&charge provides up to 120 kW DC + 60 kW AC and features all fast charging standards of all European, Asian and American car manufacturers. Therefore it is ready for current and next generation vehicles. espresso&charge offers different payment- and access-systems and is an ideal fit for places with high traffic volume such as motorway service areas or for fleet maintenance applications.



- up to 120 kW DC + 60 kW AC
- Cloud & Remote Management
- Smart Grid Ready
- Optional Grid Buffer Battery
- Ambient Light

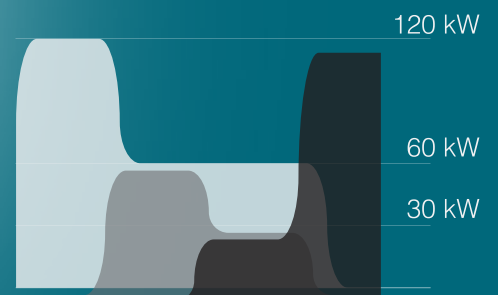


Adaptable DC-Power up to 120 kW



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



- Type 2 Connector
- CCS Connector
- CHAdeMO Connector
- Type 2 Socket (optional)



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.

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		
	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 	Plug 2 	
		Combined Charging Syst. IEC 62196-3	CHAdeMO JEVS G105	
	Maximum DC output power	20 kW to 120 kW		
	DC Output voltage range	170 V _{DC} to 500 V _{DC} (under load: 50-500 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.

Up to 120 kW DC + 60 kW AC. Four Charges at once. All Fast Charging Standards.

espresso&charge: THE multi standard fast charging station in the highest power class: Designed for electric cars and plug in hybrids 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 120 kW: extendable in steps of 10 kW, standard version features 60 kW
- additional AC type 2 socket with type B residual current circuit breaker
- LED ambient light visualizing the plug states
- 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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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.



work&charge

CEE Plug interface to the grid. Mode 3 safety and regulated charge. RFID access included.



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