



KEMPOWER

C SERIES

Meet your charging needs

now, and in the future



Scale EV charging power to meet your needs now, and in the future

C-series is a modular and scalable fast charging station unit - a CPU for electric cars, electric commercial vehicles, and electric off-highway vehicles. It's especially ideal for a large EV fleets, outdoor/indoor employment parking and retail.



Kempower Power Modules are the heart of all our CPU's. Each module packs 40 kW of charging power and the module function individually.



Suitable for the most common charging standards: CHAdeMO, CCS 2 and Type 2.



Cloud connection for wireless software updates and superior data management.



Intuitive and user-friendly 7" touch screen on Satellites posts ensures a smooth and convenient charging experience.



Robust design and special coating for the electronics make the C-series weatherproof.



Winning features on Satellite posts include class-leading cable handling and smart UX technology.



GENERAL

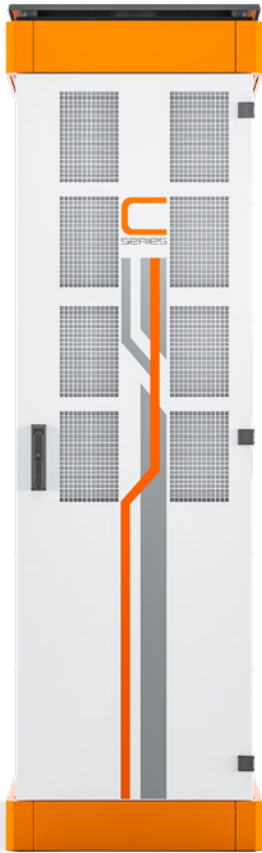
Input Voltage	380 - 400 VAC + - 10 %, 50 - 60 Hz	Enclosure class	IP54, IK08
Input current	See table below	Humidity	< 95 % relative humidity
Output Power	C500-Series: 40 - 600 kW C800-Series: 40 - 480 kW	Operational noise level	< 60 dB
Output current	See table below	Features	3G/4G, OCPP 1.6/2.0, cloud based back-end, service and management dashboard
Output Voltage	C500-Series: 150 - 500 V _{DC} C800-Series: 200 - 800 V _{DC}	Electrical Protections	Over/under voltage, Surge protection, Short circuit, Earth leakage current, Over temperature
Max. Output V	C500-Series: 580 V _{DC} with 400 V _{AC} C800-Series: 920 V _{DC} with 400 V _{AC}	Electrical safety	IEC 61851-1, IEC 61851-23
Power factor	0.94 at P _N	EMC	EN 61000-1, -2, -3, -4
Efficiency	95 % @ output P _N	Harmonics	61000-3-12
Output delivery	Cable + plug / Pantograph	Mechanical dimensions (W x H x D)	C501/C801: 650 x 2150 x 825 mm C502/C802: 1250 x 2150 x 825 mm C503/C803: 1850 x 2150 x 825 mm
Operating Temperature	-30 to +40°C		
Derating high ambients	1,5 %/1°C up to +50°C max		
Altitude derating	1 %/100 m above 2000 m		
Storage Temperature	-40 to +60°C		

C500 - SERIES, CHARGING VOLTAGE 150 - 500 VDC

Product	Light Duty Rating				Heavy Duty Rating				Weight [kg]
	P _{LD} Charging power at 400 V _{DC} [kW]	Charging current I _{LD} at +40 C [A _{DC}]	Input power P _{IN} at P _{LD} [kVA]	Input current I _{IN} at P _{LD} [A]	P _{LD} Charging power at 400 V _{DC} [kW]	Charging current I _{LD} at +40 C [A _{DC}]	Input power P _{IN} at P _{LD} [kVA]	Input current I _{IN} at P _{LD} [A]	
C501 P40 N	50	125	67	82	40	100	45	63	280
C501 P80 N	100	250	113	164	80	200	90	126	320
C501 P120 N	150	375	170	245	120	300	136	192	360
C501 P160 N	200	500	226	327	160	400	181	256	400
C502 P200 N	250	625	283	408	200	500	226	320	680
C502 P240 N	300	750	340	490	240	600	272	384	720
C502 P280 N	350	875	396	572	280	700	317	448	760
C502 P320 N	400	1000	452	654	320	800	362	512	800
C503 P360 N	450	1125	509	735	360	900	407	576	1080
C503 P400 N	500	1250	566	820	400	1000	453	640	1120
C503 P440 N	550	1375	623	900	440	1100	498	704	1160
C503 P480 N	600	1500	680	908	480	1200	543	768	1200

C800 - SERIES, CHARGING VOLTAGE 200 - 800 VDC

Product	P _{HD} Charging power at 400 V _{DC} [kW]	Charging current I _{HD} at +40 C [A _{DC}]	Input power P _{IN} at P _{HD} [kVA]	Input current I _{IN} at P _{HD} [A]	Weight [kg]
C801 P40 N	40	60	44	63	280
C801 P80 N	80	120	86	125	320
C801 P120 N	120	180	132	190	360
C801 P160 N	160	240	174	250	400
C802 P200 N	200	300	219	315	680
C802 P240 N	240	360	263	380	720
C802 P280 N	280	420	305	440	760
C802 P320 N	320	480	347	500	800
C803 P360 N	360	540	389	565	1080
C803 P400 N	400	600	431	630	1120
C803 P440 N	440	660	473	690	1160
C803 P480 N	480	720	515	750	1200



C SERIES

Individually configured charging solution

The C-series is designed to serve a large number of electric vehicles on different applications. As your business grows, the system is easily scalable due to the modular structure and the Power Modules. The weatherproof body and a special coating for the electronics ensure that the C-series can be installed both indoors and outdoors. It's tested for tough weather and it can take rain, snow, dirt, and dust. As an option to C-series with Satellites or Pantograph, you may also appreciate flexibility and small footprint that our compact and scalable C-station offers. C-series versatility offers nearly limitless possibilities for EV charging.



Kempower Oy designs, manufactures and delivers charging system solutions and services for electric vehicles and machines operating in the most demanding conditions. Our charging solutions are designed and manufactured in Lahti, Finland. We are owned by Kemppi Group. Together we have 70 years of experience in perfecting power sources.

www.kempower.com



Scan the code for more C-Series information.