

Advanced Satellite Charging System

Technical Datasheet

C-station Compact Charging Station



Charging Station

C-station inherits functionalities from both Satellites and CPU's. It's heavy duty electromechanical design comprises three type of modules for control, dynamic and power. Each cabinet utilizes 1 - 4 power modules that each has charging power up to 40 kW. Depending on the charging application, full CPU provides nominal power of 160 kW into one charging cable or selected level to multiple cables.

Charging power management can be selected from static or dynamic to meet application needs. On static power management, each power module is dedicated to specific charging cable or routed to external Satellite. On dynamic power management charging power is routed optimatically up to full power respectively to cable sizing and number of charging outlets.

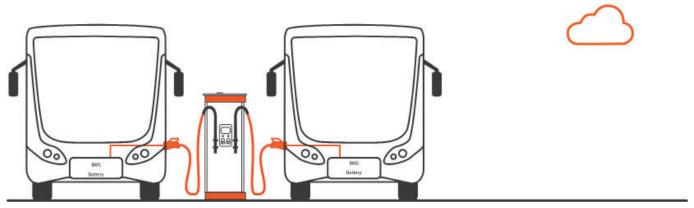
- Static power management for constant charging sessions or dynamic power management (pat. pend.) for intelligent power distribution
- Scalability with add-ons power modules
- C-stations are furnished with advanced cable support to provide premium user experience (pat. pend.)



C-station adopts Kempower's advanced cable support solution.

Compact Charging Station

Technical datasheet



C-station product codes

Voltage class and mechanical size indicator

DC charging power Based on heavy duty rating. See table on page 3
Charging method available model options in table below

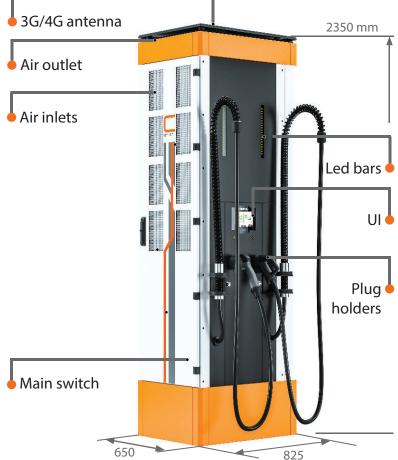
Charging cable 5=5 meters, E = 300A maxium current

User interface

S = Standard interface

Power distribution module

Features and Dimensions



	·					
Type	Description					
801	single cabinet					
802	dual cabinet					
803	triple cabinet					
Туре	Description					
C	CCS 2					
CC	2 x CCS 2					
CCA	2 x CCS 2 & Type 2 AC					
CD	CCS 2 & CHAdeMO					
U	CCS 1					
UU	2 x CCS 1					
UUA	2 x CCS 1 & Type 1 AC					
UD	CCS 1 & CHAdeMO					
Current	Description					
В	125 - 150 A					
C	200 A					
C	250 A					
E	300 A					
Туре	Description					
S4	up to 4 static outputs					

up to 2 dynamic outputs up to 4 dynamic outputs

D2

Specification

General electric specifications C-Series

Input Voltage 380 - 480 V_{AC} + - 10%, 50 - 60 Hz

Efficiency 94% @ output P_N
Output delivery Cable + plug

Multivoltage See page 4

Environmental Specifications

Operating Temperature -40 to +55 °C (with derating) Derating high ambients 1,5%/1°C from +40 to +55°C

Maximum altitude 4000 m

Altitude derating 1%/100m above 2000 m

Storage Temperature -40 to +60 °C Enclosure class IP54, IK10

Humidity < 95% relative humidity

Operational noise level < 55 dB_A

Features

3G/4G/LTE, WiFi, OCPP 1.6/2.0, cloud based back-end, service and management dashboard, easy power up of power modules, touch screen UX, welcome light, LED-status lights, advanced cable support system, RFID-reader, Options: additional set of outputs (total of 4 outputs), additional Satellite posts

Electrical Protections

Over/under voltage, Surge protection, Short circuit, Earth leakage current, Over temperature

Protections

Device and charging cable over temperature

Compliant to Standards

Electrical safety IEC 61851-1,

IEC 61851-23 IEC 61851-21-2,

EMC IEC 61851-21-2, EN 61000-1, -2, -3, -4

Mechanical dimensions (WxHxD)

C801: 650x2350x825 mm C802: 1300x2350x825 mm C803: 1850x2350x825 mm

Weight: See table below (cabinet)

Model specific values

	800V Rating						
	200 - 920 V _{DC}	Charging power 400 Vdc [kW]	Charging current I+D at +40 C [A⊳c]	Input power P™ at PHD [kVA]	Input current l _{IN} at P _{Ho} [A]	Weight [kG]	
	Product code	P _{HD} at 4					Notes:
1.	_ C801 P40 N _	40	60	46	66	280	
2.	C801 P80 N _	80	120	91	131	320	
3.	C801 P120 N _	120	180	137	197	360	
4.	C801 P160 N _	160	240	182	263	400	
5.	C802 P200 N _	200	300	228	328	680	
6.	C802 P240 N _	240	360	273	394	720	
7.	C802 P280 N _	280	420	319	460	760	
8.	C802 P320 N _	320	480	364	526	800	
9.	C803 P360 N _	360	540	410	591	980	
10.	C803 P400 N	400	600	455	657	1040	
11.	C803 P440 N	440	660	501	723	1080	
12.	C803 P480 N	480	720	546	788	1120	

C-station options

Pos.	Item	Definition
1.	Dynamic module D2	Managing power between two charging outputs
2.	Dynamic module D4	Managing power between four charging outputs
3.	Satellite posts	According to S-series datasheet, depending on CPU build (example two outlets in Cabinet + two Satellite outputs)
4.	Multivoltage	Transformer cabinet for C801 (see dimensions of C802 cabinet)



Specification

Input current / range *

Multivoltage - General electric specifications

Input Voltage3-phaseVoltage tolerancesee belowInput Frequency50 - 60 HzNominal Input power186 kVA (for 1

ominal Input power 186 kVA (for 160 kW output) input values > input terminal

268A / 380 – 460 Vac > 400 Vac 224A / 480 – 550 Vac > 480 Vac

224A / 480 – 550 Vac > 480 Vac 187A / 575 – 690 Vac > 630 V 113A / 950–1000 Vac > 1000 Vac

Power Factor(@full load) 0.94

Efficiency 94% @ nominal output power

Transformer loss * 2 %

Cabinet weight

(C801+MV)

1050 kg

Your local dealer



C € Manufactured in Finland