Advanced Satellite Charging System

Technical Datasheet

S-series
Charging Satellite

Inspiring user experience

Advanced Satellite charging system utilizes Centralized Power Unit (CPU) cabinet that supplies power to multiple distributed charging satellites. Seven variations of the user friendly satellite post can be selected according to charging system topology.

S-series charging solution match on locations where heavy-duty usage and high number of charging points are needed - such as gas stations, shopping malls, distribution centers, parking areas and Bus depots.

- DC charging satellites are built with advanced cable support (pat. pend.) to provide premium user experience
- Intuitive user menu on a 7" touch screen makes charging easy to access and manage
- DC charging satellites enables flexibility on charging system topology
- Cloud connection for wireless software updates and superior data management

On DC - type of Satellite, cable support can be installed left or right side or both sides (dual output) of the Satellite pole to improve access.

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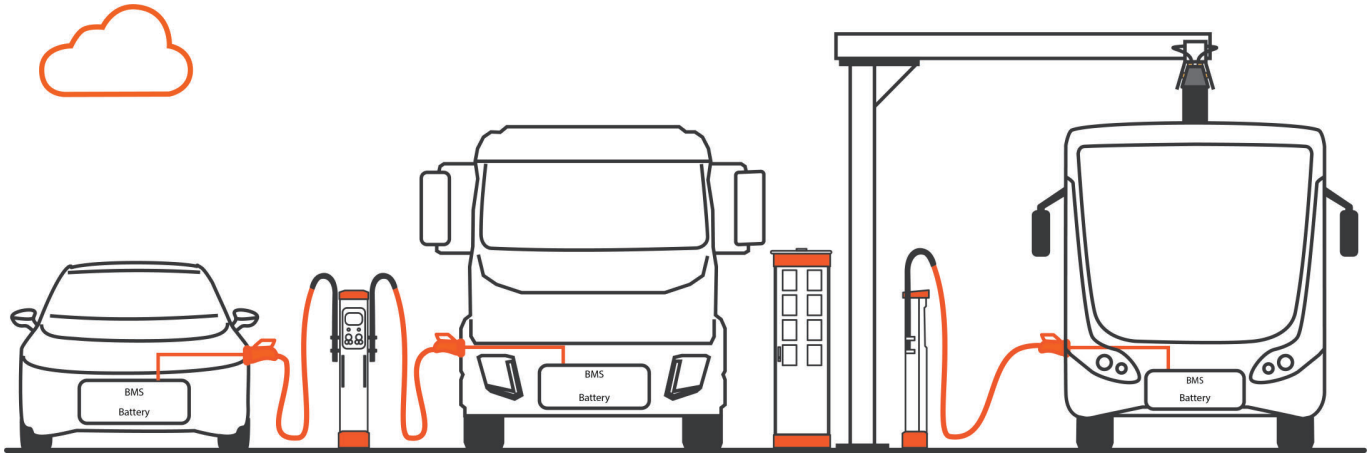
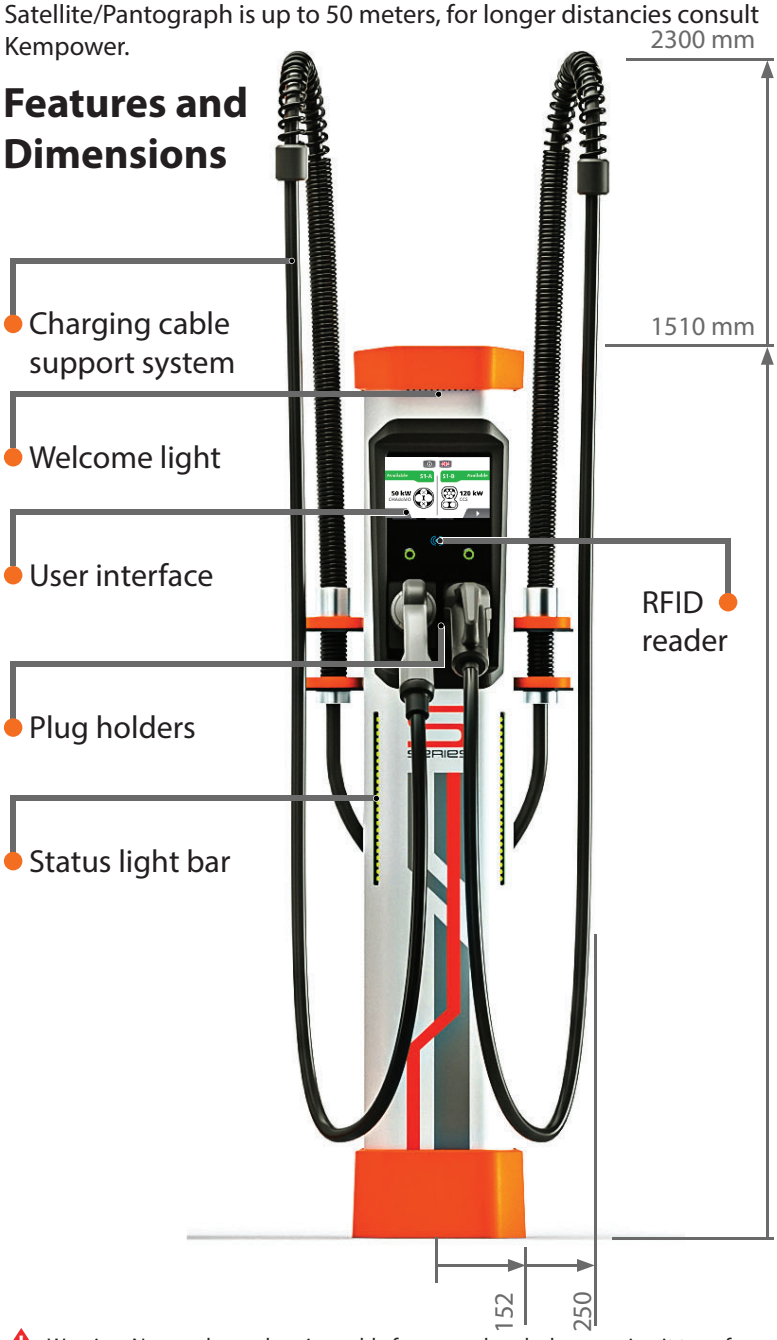
Technical datasheet



⚠ Recommended max. DC cabling between CPU cabinet and Satellite/Pantograph is up to 50 meters, for longer distancies consult Kempower.

Features and Dimensions



⚠ Warning: Never release charging cable from your hand when moving it to or from the vehicle to prevent the plug or vehicle to damage. After charging always place plug back onto its holder.

S-series product codes

S - CC - 5C - S

- Charging method (Type) — available model options in table below
- Charging cable — 5=5 meters, C = 200A maxium current
- User interface — S = Standard interface

Type	Description
C	CCS 2
CC	2 x CCS 2
CA	CCS 2 & Type 2 AC Socket *
D	CHAdeMO
DA	CHAdeMO & Type 2 AC Socket*
CD	CCS2 & CHAdeMO
AA	2 x Type 2 AC Socket *
X	CCS2 & CHAdeMO (flex)
U	CCS 1
UU	2 x CCS 1
UA	CCS 1 & Type 2 AC Socket *
UD	CCS 1 & CHAdeMO
Y	CCS 1 & CHAdeMO (flex)

Current	Description
A	60 - 80 A
B	125 - 150 A
C	200 A
D	250 A
E	300 A

* models with Type 2 AC Socket Q2/2021

Specification

General electric specifications S-Series

DC Charging connector	CCS1/2 IEC 62196-3 CHAdeMO
Power / Current (DC)	See table below
Voltage	max. 1000 V_{DC}
AC Charging socket	Type 2 IEC 62196
Power / Current (AC)	See table below
Standby power	25 W

Environmental Specifications

Ambient Temperature	-35 to +55 ˚C (with derating)
Maximum altitude	4000 m
Storage Temperature	-40 to +60 ˚C
Enclosure class	IP54, IK10
Humidity	< 95% relative humidity

Features

7" touch screen, cloud based back-end, service and management dashboard, welcome light, LED-status lights, advanced cable support system, RFID-reader

Protections

Device and charging cable over temperature

Compliant to Standards

Electrical safety	IEC 61851-1, IEC 61851-23
EMC	IEC 61851-21-2,

Mechanical dimensions (WxHxD)

294x1500x240 mm footprint
501x2300x521 mm with cables

Model specific values

Satellite

	Product code	Simultaneous charging with 2 outputs possible	CCS Charging outputs	CCS Maximum continuos charging current at +40 C [A]	CCS Charging power at 400 V_{DC} [kW]	CCS Charging power at 670 V_{DC} [kW] (with C800 series)	CHAdeMO Charging outputs	CHAdeMO Maximum continuos charging current at +40 C [A]	CHAdeMO Charging power at 400 V_{DC} [kW]	Type 2 AC Charging outputs	Type 2 AC Maximum continuos charging current at +40 C [A]	Type 2 AC Charging power at 400 V_{AC} [kW]	DC Charging cable length [m]	Satellite weight [kG]	Notes:
1.	S C 5A S		1	80	32	50							5	80	
2.	S CC 5AA S	•	2	80	32	50							5	80	
3.	S C 5B S		1	150	60	100							5	80	
4.	S C 5C S		1	200	80	130							5	82	
5.	S C 5E S		1	300	120	200							5	87	
6.	S CC 5B S	•	2	150	60	100							5	82	
7.	S CC 5C S	•	2	200	80	130							5	97	
8.	S CC 5E S	•	2	300	120	200							5	107	
9.	S CA 5B S	•	1	150	60	100				1	3 x 32	22	5	77	
10.	S CA 5C S	•	1	200	80	130				1	3 x 32	22	5	82	
11.	S CA 5E S	•	1	300	120	200				1	3 x 32	22	5	87	
12.	S AA S	•								2	3 x 32	22		67	
13.	S D 5B S						1	125	50				5	80	
14.	S DA 5B S						1	125	50	1	3 x 32	22		83	
15.	S X 5B S		1	150	60	100	1	125	50				5	77	
16.	S X 5CB S		1	200	80	130	1	125	50				5	92	
17.	S X 5EB S		1	300	120	130	1	125	50				5	108	
18.	S CD 5B S	•	1	150	60	100	1	125	50				5	110	
19.	S CD 5CB S	•	1	200	80	130	1	125	50				5	98	
20.	S CD 5EB S	•	1	300	120	200	1	125	50				5	112	
21.	S U 5C S		1	200	80	130							5	80	
22.	S Y 5CB S		1	200	80	130	1	125	50				5	92	

Satellite options

Pos.	Item	Definition
1.	S-series steel foundation	Installation KIT for a single Satellite for prefabricated cylinder type concrete foundation, with 5 inch hole. Standard concrete foundation element that is used for traffic lights is suitable for ground installation of Satellite. Steel tube with assembly elemets provides more installation space for DC cables. Consult Kempower for details.

Your local dealer

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Defining Charging
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CE Manufactured in Finland

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