

Advanced Satellite Charging System

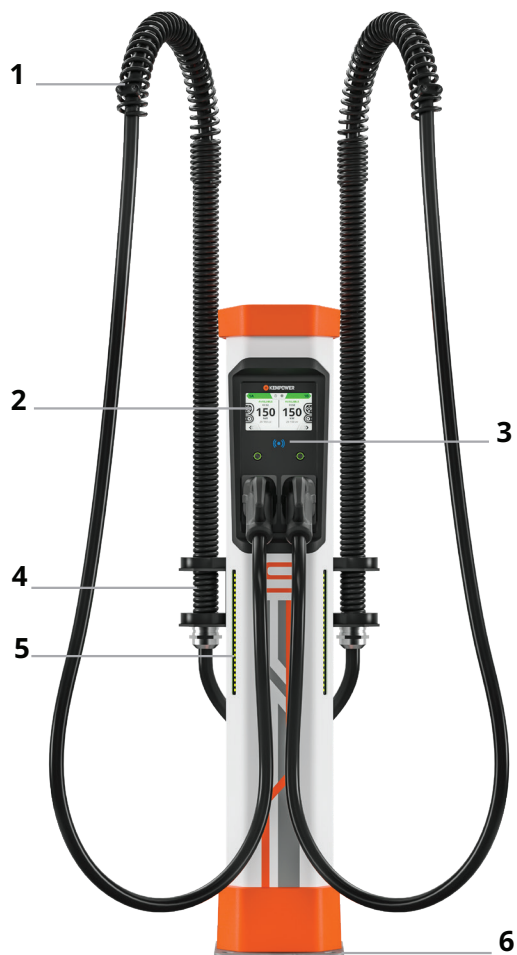
Kempower S-Series Charging Satellite

Technical Datasheet



The Kempower S-Series charging satellites are connected to the C-Series charging power unit (CPU) or C-Station and operate the charging outputs of the system. The single satellite has one charging output, and the double satellite has two outputs. One C-Series CPU can be connected to up to 8 charging outputs: 4 double satellites or 8 single satellites. The available maximum nominal charging power the satellite charging system is up to 200/400/600 kW depending on the CPU version and cable sizing. S-Series charging satellites are the optimal solution for locations with heavy-duty usage and need for multiple charging outputs, such as gas stations, shopping malls, distribution centers, parking areas, and bus depots.

- Advanced cable support system (pat. pend.) to provide premium user experience
- Easy-to-use, intuitive user menu on a 7" touch screen display
- On-screen QR code to follow the charging status on your mobile phone
- Flexibility in designing the charging system topology
- Kempower ChargeEye solution provides advanced charging control and customisation options
- The recommended cabling distance between C-Series charging power unit and S-Series charging satellite is up to 80 meters



1. Charging cable support spring system
2. 7" touch screen display
3. RFID reader (ISO14443A)
4. Charging cable holders
5. Charging status indication LEDs
6. Mounting flange

Product code interpretation examples: SCD5DS, SCC7DPC0

S	S-Series
CD	Charging method, CD = CCS2 & CHAdeMO, CC = 2 x CCS2
5B, 7B	Charging cable, 5 = 5 m, 7 = 7 m, D= 250 A nominal charging cable current
S	User interface, S = standard interface, P = EMV contactless payment terminal
C0	Unbranded, no stickers, black roof & base

Charging method

C	CCS2
CC	2 x CCS2
CD	CCS2 & CHAdeMO
X*	CCS2 / CHAdeMO *allows up to 16 outputs per one CPU, max. 8 outputs charging simultaneously
D	CHAdeMO

Nominal charging cable current

B	125 A (CHAdeMO)
C	200 A (CCS2)
D	250 A (CCS2)
E	300 A* (CCS2)

*500 A (max. 10 min) in +25°C with single charging output *375 A continuous in +25°C with double charging outputs

General electric specifications

DC charging plug options	CCS2 IEC 62196-3, CHAdeMO
Voltage	Max. 1000 V _{DC}
Standby power	25 W

Environmental specifications

Operating temperature	-30...+50°C
Current derating	-1.5% of max. charging current per 1°C (above +40°C)
Maximum altitude	2000 m (without altitude derating)
Altitude derating	-1.4% of max. charging current per 100 m (above 2000 m)
Storage temperature	-40...+60°C
Enclosure	IP54, IK10
Ambient air humidity	< 95% relative humidity

Connections (via C-Series / C-Station)

WiFi	802.11 b/g/n (2.4/5 GHz)
Cellular / GPS	LTE-FDD, LTE-TDD, WCDMA, GSM
Ethernet	RJ45, IEEE 802.3 / 802.3u
OCPP	1.6 J / 2.0
Connectivity	Kempower ChargeEye solution

Electrical protections

Charging cable temperature monitoring

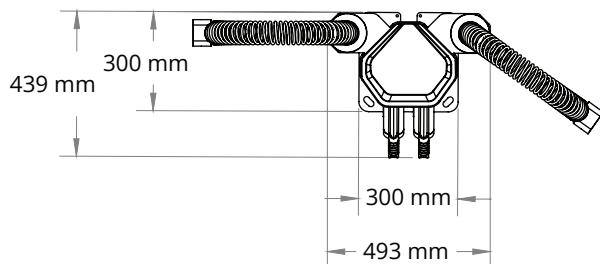
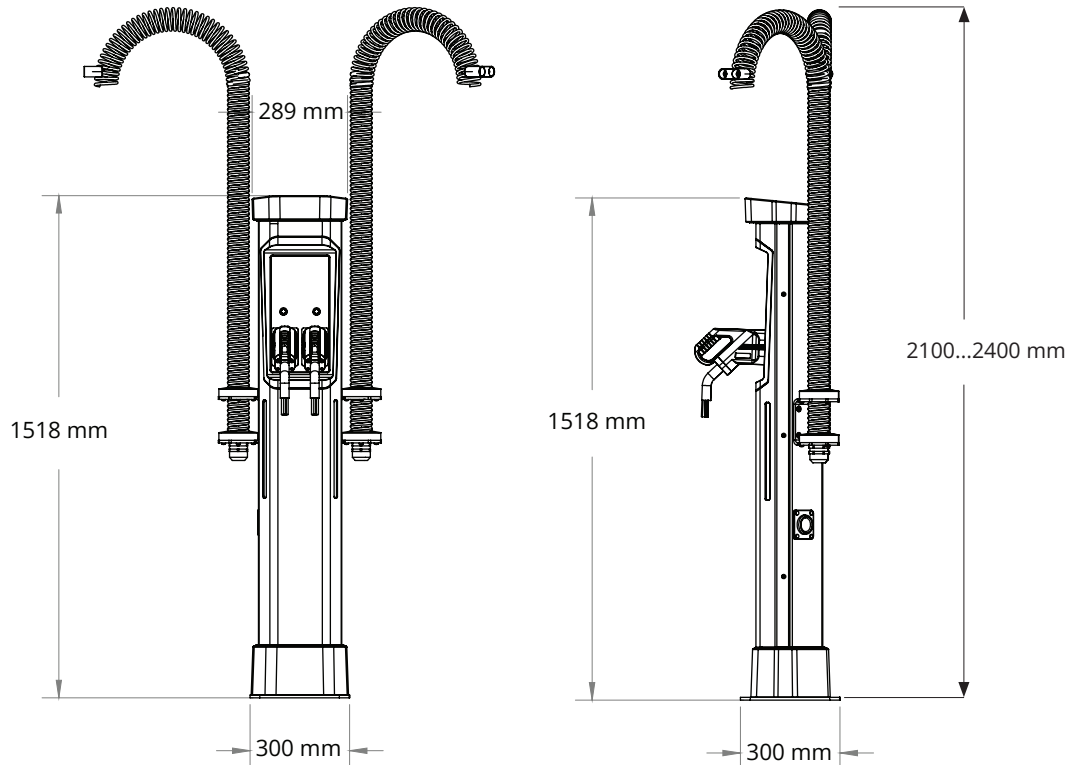
Product code	Charging outputs	Charging method	Simult. charging with 2 outputs	Max. continuous charging current [A]	Charging power [kW] at 400 V _{DC}	Charging power [kW] at 670 V _{DC} (w/ C800)	Weight [kg]
Product codes with 5 m charging cables							
SC5CS	1	CCS2	no	200 A	80 kW	130 kW	66 kg
SC5DS	1	CCS2	no	250 A	100 kW	165 kW	94 kg
SC5ES	1	CCS2	no	300 A	120 kW	200 kW	99 kg
SCC5CS	2	2 x CCS2	yes	2 x 200 A	2 x 80 kW	2 x 130 kW	99 kg
SCC5DS	2	2 x CCS2	yes	2 x 250 A	2 x 100 kW	2 x 165 kW	154 kg
SCC5ES	2	2 x CCS2	yes	2 x 300 A	2 x 120 kW	2 x 200 kW	165 kg
SCD5CBS	2	CCS2 & CHAdeMO	yes	200 A & 125 A	80 kW & 50 kW	130 kW & 80 kW	96 kg
SCD5DBS	2	CCS2 & CHAdeMO	yes	250 A & 125 A	100 kW & 50 kW	165 kW & 80 kW	124 kg
SCD5EBS	2	CCS2 & CHAdeMO	yes	300 A & 125 A	120 kW & 50 kW	200 kW & 80 kW	129 kg
SX5EBS	2	CCS2 / CHAdeMO	no	300 A / 125 A	120 kW / 50 kW	200 kW / 80 kW	129 kg
SD5BS	1	CHAdeMO	no	125 A	50 kW	80 kW	63 kg
Product codes with 7 m charging cables							
SC7CS	1	CCS2	no	200 A	80 kW	130 kW	68 kg
SC7DS	1	CCS2	no	250 A	100 kW	165 kW	96 kg
SC7ES	1	CCS2	no	300 A	120 kW	200 kW	103 kg
SCC7CS	2	2 x CCS2	yes	2 x 200 A	2 x 80 kW	2 x 130 kW	103 kg
SCC7DS	2	2 x CCS2	yes	2 x 250 A	2 x 100 kW	2 x 165 kW	159 kg
SCC7ES	2	2 x CCS2	yes	2 x 300 A	2 x 120 kW	2 x 200 kW	172 kg
SCD7CBS	2	CCS2 & CHAdeMO	yes	200 A & 125 A	80 kW & 50 kW	130 kW & 80 kW	99 kg
SCD7DBS	2	CCS2 & CHAdeMO	yes	250 A & 125 A	100 kW & 50 kW	165 kW & 80 kW	128 kg
SCD7EBS	2	CCS2 & CHAdeMO	yes	300 A & 125 A	120 kW & 50 kW	200 kW & 80 kW	134 kg
SX7EBS	2	CCS2 / CHAdeMO	no	300 A / 125 A	120 kW / 50 kW	200 kW / 80 kW	134 kg
SD7BS	1	CHAdeMO	no	125 A	50 kW	80 kW	65 kg

Note: versions with payment terminal, change S to P in the end of the product code, e.g. SC7B**P**

Mechanical dimensions (WxHxD), footprint

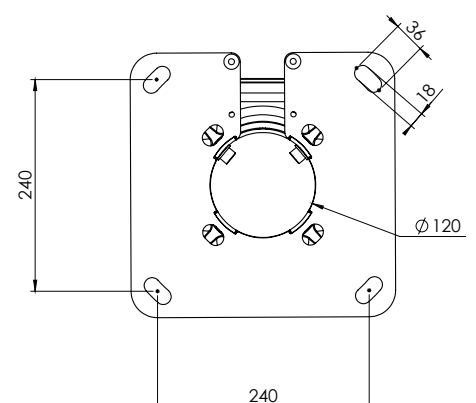
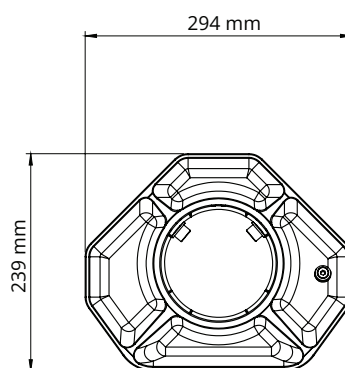
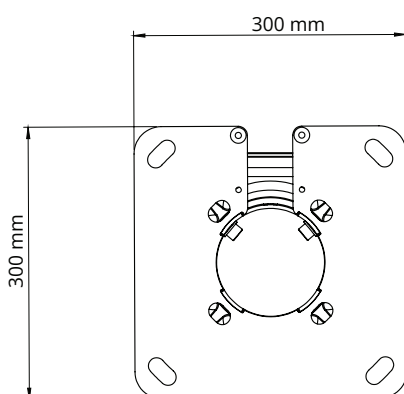
300 x 1518 x 300 mm

S-Series with two DC charging outputs

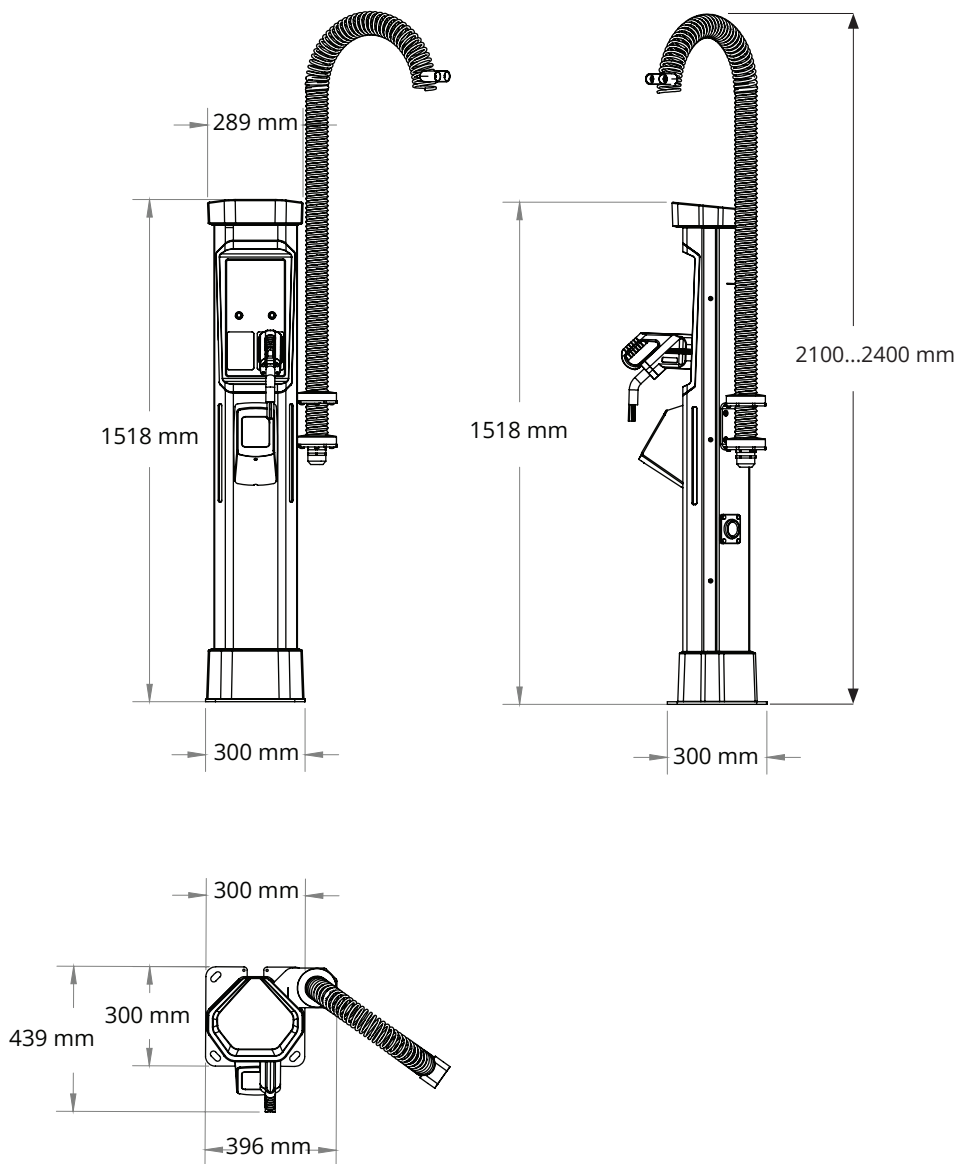


Footprint of standard surface mounting flange

Footprint with mounting pipe



S-Series with one DC charging output and EMV contactless payment terminal



Compliance to standards

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

Options (please consult Kempower for availability, pricing and MOQ)

CCS1 charging cables available upon request

Customer branding options, colors, stickers