Advanced Satellite Charging System

S-Series Charging Satellite

Technical Datasheet, North America

There are several variations of S-Series charging satellites, equipped with one or two charging outputs each.
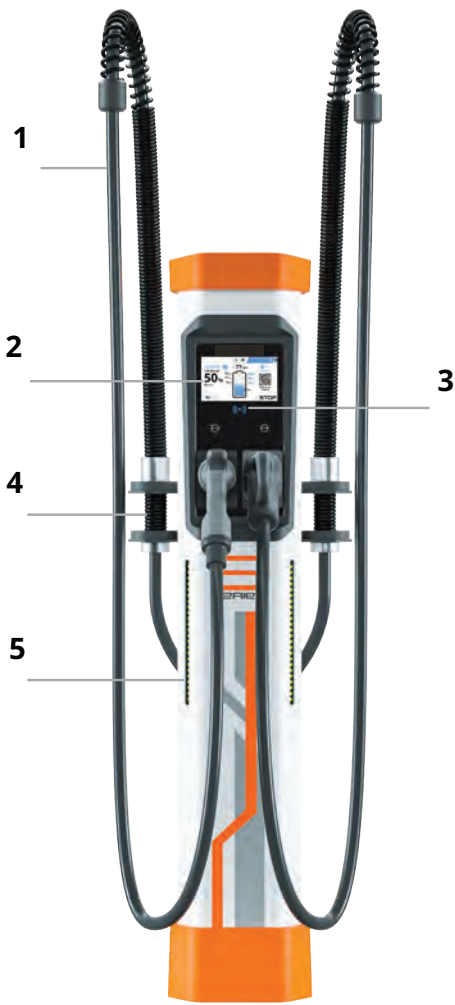
One satellite charging system can consist of up to 4 double or 8 single output satellites, in total 8 charging outputs.

The power to S-Series charging satellites is supplied by C-Series charging power unit (CPU), providing a maximum power of up to 200/400/600 kW, depending of the CPU version and cable sizing.

S-Series fits locations where a heavy- duty usage, and a high number of charging outputs are needed, 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
- EV-olution ChargEye provide remote connectivity with diagnostics and maintenance tools
- Recommended max. DC cabling between C-Series charging power unit and S-Series charging satellite is 262 feet / 80 meters.

Standard satellite with double DC output

S-Series charging satellite is for charging of all types of electric vehicles. Innovative charging cable support system makes the charging cables easy-to-use.

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

Product code interpretation examples:
SUD5BSL
SUD7BSLC0

S	S-Series
UD	Charging method
5B 7B	Charging cable 5 = 16.4 ft / 5 m 7 = 23 ft / 7 m B= 125/150 A charging cable current
S	User interface S = standard interface P = card payment terminal
L	ETL approved product
C0	Unbranded, black roof & base

Charging method

D	CHAdeMO
U	CCS1
UU	2 x CCS1
UD	CCS1 & CHAdeMO

Nominal charging cable current

B	125 A (CHAdeMO) 150 A (CCS1)
C	200 A (CCS1)

CCS2 UL-CSA certified charging cables available upon request, please contact EV-olution for availability, pricing and delivery times.

Subject to change without notice

General electric specifications

DC charging plug options	CCS1 IEC 62196-3 CHAdeMO
Voltage	Max. 1000 V_{DC}
Standby power	25 W

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	1.6J / 2.0
Connectivity	EV-olution ChargEye remote maintenance and management dashboard

Product code	SD5BSL SD7BSL	SU5CSL SU7CSL	SUU5CSL SUU7CSL	SUD5CBSL SUD7CBSL
No. of charging outputs	1	1	2	2
Charging method	CHAdeMO	CCS1	2 x CCS1	CCS1 & CHAdeMO
Simultaneous charging with 2 outputs (yes/no)	no	no	yes	yes
Charging cable length	16.4 ft / 5 m 23 ft / 7 m	16.4 ft / 5 m 23 ft / 7 m	16.4 ft / 5 m 23 ft / 7 m	16.4 ft / 5 m 23 ft / 7 m
Max. continuous charging current [A] at +40 ˚C / +104 ˚F	125 A	200 A	2 x 200 A	200 A & 125 A
Charging power [kW] at 400 V_{DC}	50 kW	80 kW	2 x 80 kW	80 kW & 50 kW
Charging power [kW] at 670 V_{DC} (w/ C-Series C800 CPU)	84 kW	134 kW	2 x 134 kW	134 kW & 84 kW

Environmental specifications

Operating temperature	-22...+122˚F / -30 ... +50˚C (with CHAdeMO up to +104˚F / +40˚C)
Current derating	-1,5% of max. charging current per 1.8 °F / 1°C (above +104˚F / +40˚C)
Maximum altitude	2000 m / 6562 ft
Altitude derating	-1.4% of max. charging current per 328 ft / 100 m (above 6562 ft / 2000 m)
Storage temperature	-40...+140˚F / -40...+60˚C
Enclosure	Suitable for outdoor use
Operational noise level	< 60 dB (at 3.28 ft / 1 m distance)
Ambient air humidity	< 95% relative humidity

![EV-olution Charging Systems logo]

Compliance to standards

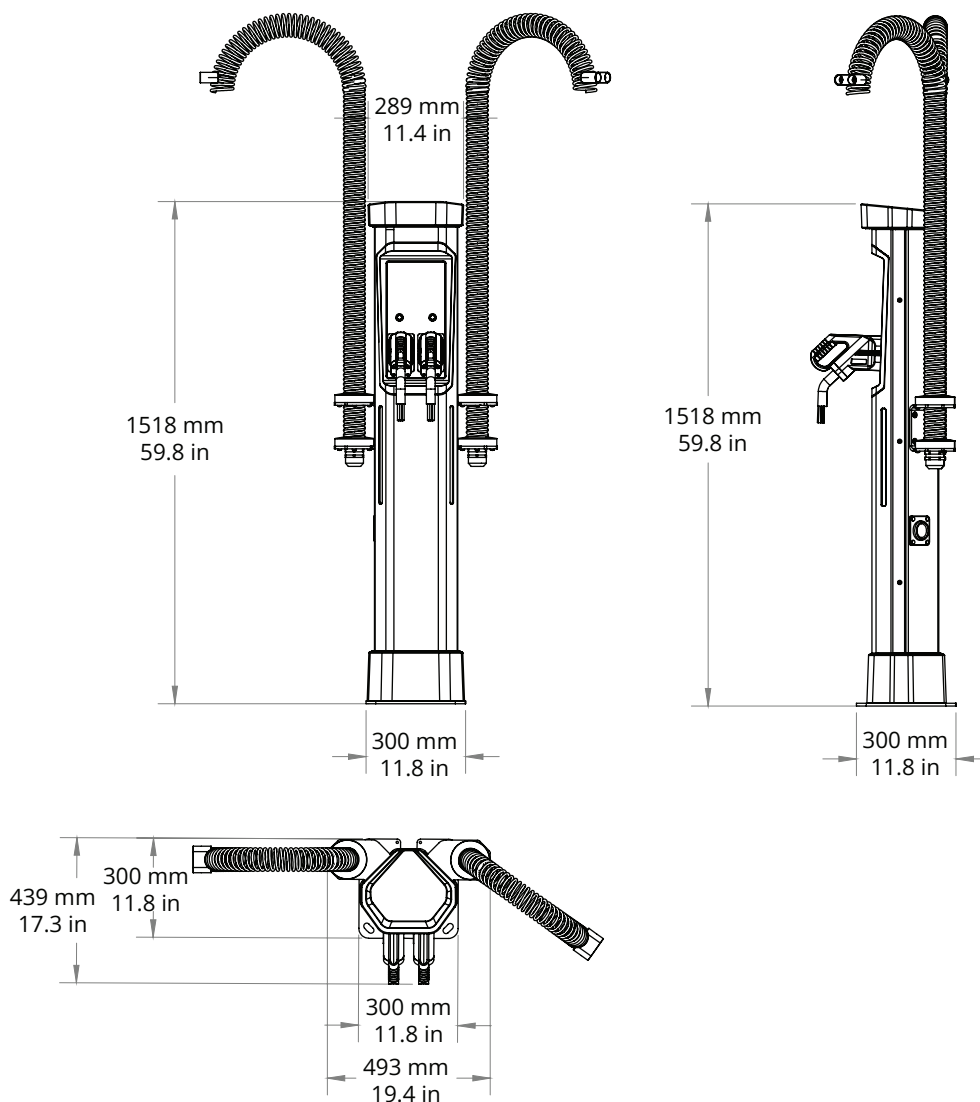|	
Electrical safety	IEC 61851-1, IEC 61851-23
EMC, Harmonics	IEC 61851-21-2
Conforms to	UL Std. 2202, 2231-2
Certified to	CSA Std. C22.2 No. 281.2, C107.1

Electrical protections

Device over temperature

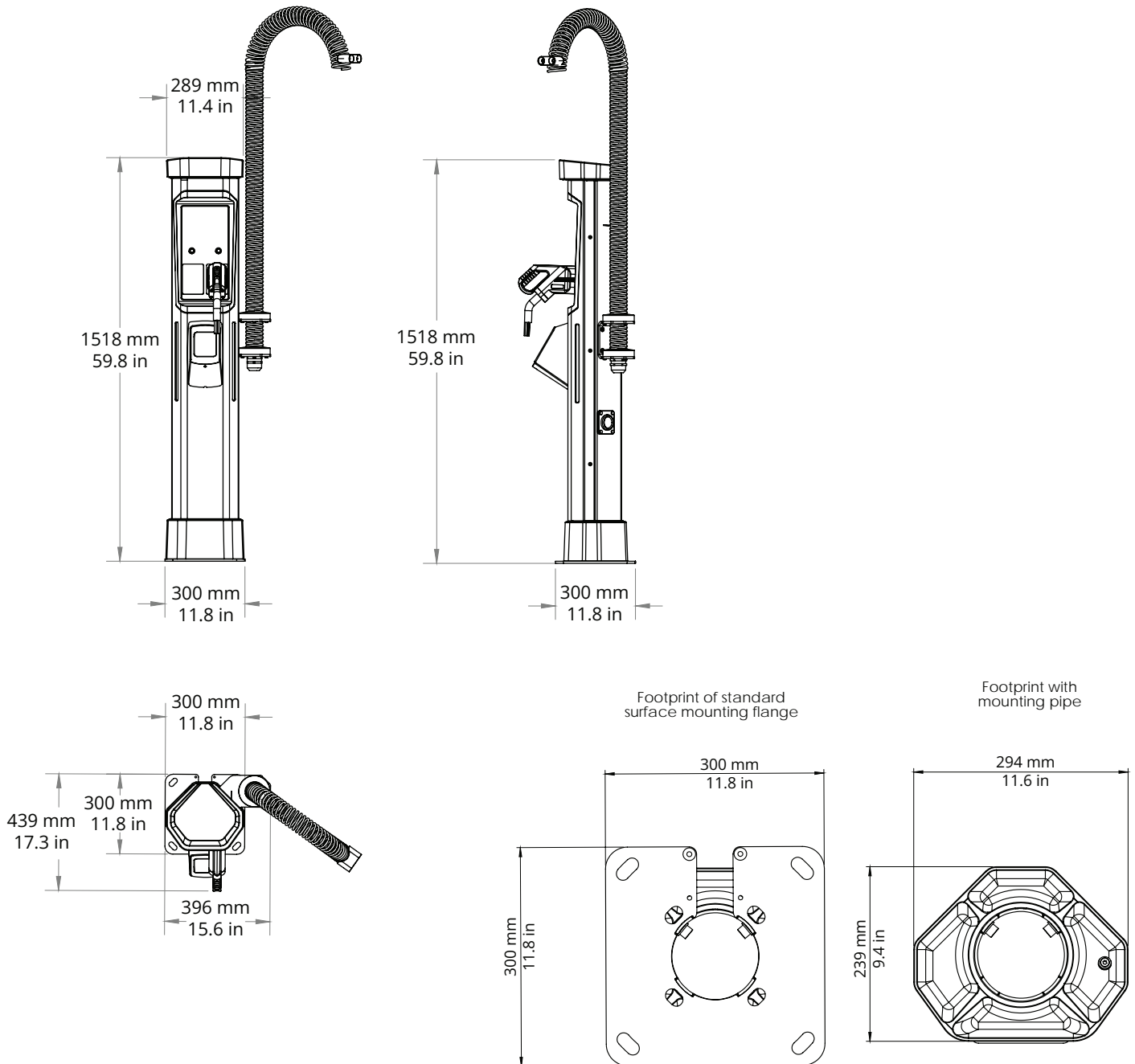Charging cable over temperature

Mechanical dimensions (WxHxD), footprint

11.8 x 59.8 x 11.8 inch / 300 x 1518 x 300 mm

Product code Weight	SD5BSL SD7BSL	SU5CSL 5U7CSL	SUU5CSL SUU7CSL	SUD5CBSL SUD7CBSL
[kg / lbs]	177 lbs / 80 kg	177 lbs / 80 kg	203 lbs / 92 kg	203 lbs / 92 kg
[kg / lbs]	183 lbs / 83 kg	183 lbs / 83 kg	216 lbs / 98 kg	216 lbs / 98 kg

S-Series with two DC charging outputs

S-Series with one DC charging output and card payment terminal

289 mm
11.4 in

1518 mm
59.8 in

1518 mm
59.8 in

300 mm
11.8 in

300 mm
11.8 in

300 mm
11.8 in

439 mm
17.3 in

300 mm
11.8 in

396 mm
15.6 in

Footprint of standard
surface mounting flange

Footprint with
mounting pipe

300 mm
11.8 in

300 mm
11.8 in

294 mm
11.6 in

239 mm
9.4 in

⚠ Warning: Never release the charging cable from your hands when moving it to or from the vehicle, in order to prevent damaging the plug or the vehicle. After charging, always place the plug back in its holder.
Refer to the operation manual for warnings, functions and features.

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