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SMA EV Charger Business

Charging infrastructure for e-mobility in the commercial sector

Flexible use
- For new and existing PV systems
- As single device with two charging points or in parks with several charging points

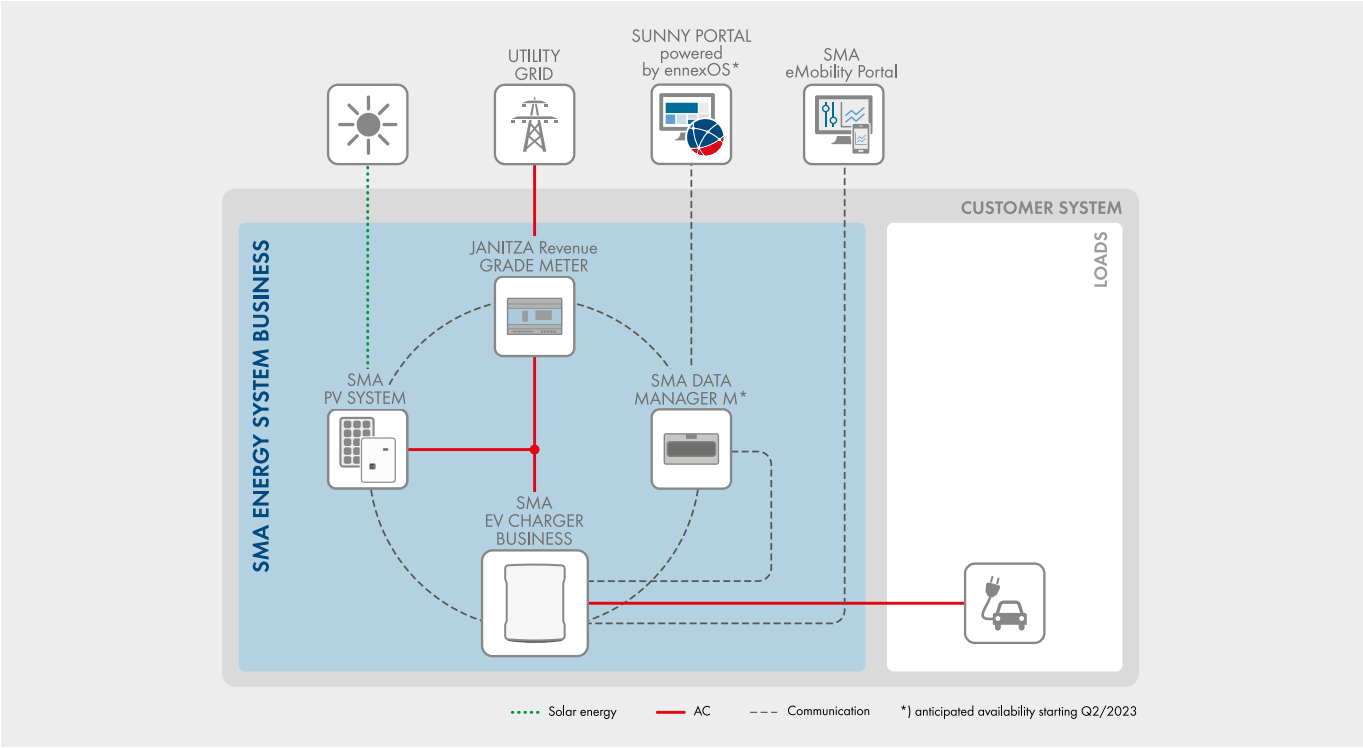
Fast and easy to use
- Charging with up to 2 x 22 kW per charger
- Integrated RFID card reader
- Can be easily integrated into your SMA Energy System

Ease of mind
- Included 5 years of SMA eMobility Portal
- Integrated dynamic load control
- Integrated direct current failure monitoring

Sustainable
- Produced in Germany
- CO_2-neutral mobility
- Dynamic charging load control is integrated in the charger

With the new SMA EV Charger Business, a commercial charging infrastructure for single point charging stations or parks with several charging points can be quickly and easily implemented.

Each charger features two convenient charging points for electric vehicles including charging cable and type-2 plugs or charging sockets. As part of SMA Energy System Business, SMA EV Charger Business is a fully integrated e-mobility solution that also enables refueling with solar power and can be expanded with SMA's commercial storage system anytime. Thanks to the RFID and OCPP interface, the charger can be flexibly integrated into various charging backends and billing systems. Thanks to the flexible concept, SMA EV Charger Business can either be mounted on the wall or installed as a free-standing charging station.



Technical data	SMA EV Charger Business with charging socket	SMA EV Charger Business with charging cable
Inputs and outputs (AC)		
Charging power per charging point	up to 22 kW	
Nominal voltage	230 VAC / 400 VAC	
Nominal frequency	50 Hz	
Nominal current per charging point	max. 32 A	
Number and type of charging points	2 x charging socket: Type 2	2 x charging cable: Type 2 (7.5 m)
Operating mode for charging processes	Mode 3 (charging with alternating current) according to IEC 61851-1	
Communication		
Interface	Ethernet RJ-45 (LAN)	
OCPP	OCPP 1.6 JSON	
PLC (ISO 15118)	●	
EEBUS	●	
Protective devices		
DC residual current detection per charging point	6 mA	
Residual-current device per charging point	4-pole 40 / 0.03 A type A	
Miniature circuit breaker	ext. necessary, per cable max. C 32 A, 3-pole	
Ambient conditions and operation		
Operating temperature range	−25°C to +40°C (−13°F to +104°F)	
Degree of protection (according to IEC 60529) / impact resistance	IP54 / IK08	
Protection class (according to IEC 62103) / overvoltage category	I / III	
Maximum permissible value for relative humidity	5% to 90%	
Altitude above MSL	0 m to 2000 m	
General data		
Dimensions (W / H / D)	409 mm / 490 mm / 176 mm	430 mm / 490 mm / 176 mm
Weight	13.5 kg	21 kg
Connection cross-section	with NYY-J max. 5 x 10 mm²	
Grid configurations	TN, TN-S, TT	
Display per charging point	LED, LCD indication (meter)	
Features / accessories		
Integrated charging cable	–	7.5 m
Integrated energy meter	MID-compatible	
Dynamic charging load control	●	
Authorization	RFID	
Warranty	2 years	
Certificates and approvals	IEC 61851-1:2019	
System compatibility	SMA eMobility Portal, SMA Data Manager M*	
Charging stand	○	
Mounting structure for charging stand (foundation base)	○	
RFID cards (MIFARE DESFire)	●	
Type designation / material number	EVCB-LB-3AC-10 / 202576-00.01	EVCB-3AC-10 / 202559-00.01

● Standard equipment ○ Optional – Not available Data at nominal conditions, Last revised: 05/2023 *) anticipated availability starting Q2/2023

EV Charger Business (compliant with German calibration law)

The SMA EV Charger Business, which complies with German calibration law, makes it possible to record and manage the charging process in accordance with the requirements of the German Measurement and Verification Act (MessEG). Compliance with German calibration law is required wherever

1. the charging current should be billed to third parties (e.g., employees),
2. charging points should be operated in a manner that allows public access, or
3. roaming (billing via charging cards, in connection with the SMA eMobility Portal) should be offered.

Technical data	SMA EV Charger Business with charging socket	SMA EV Charger Business with charging cable
Inputs and outputs (AC)		
Charging power per charging point	up to 22 kW	
Nominal voltage	230 VAC / 400 VAC	
Nominal frequency	50 Hz	
Nominal current per charging point	max. 32 A	
Number and type of charging points	2 x charging socket: Type 2	2 x charging cables: Type 2 (6.0 m)
Operating mode for charging processes	Mode 3 (charging with alternating current) according to IEC 61851-1	
Communication		
Interface	Ethernet RJ-45 (LAN)	
OCPP	OCPP 1.6 JSON	
PLC (ISO 15118)	●	
EEBUS	●	
4G modem	●	
Protective devices		
DC residual current detection per charging point	6 mA	
Residual-current device per charging point	4-pole 40 / 0.03 A type A	
Miniature circuit breaker	ext. necessary, per cable max. C 32 A, 3-pole	
Ambient conditions and operation		
Operating temperature range	−25°C to +40°C (−13°F to +104°F)	
Degree of protection (according to IEC 60529) / impact resistance	IP54 / IK08	
Protection class (according to IEC 62103) / overvoltage category	I / III	
Maximum permissible value for relative humidity	5% to 90%	
Altitude above MSL	0 m to 2000 m	
General data		
Dimensions (W / H / D)	409 mm / 490 mm / 176 mm	430 mm / 490 mm / 176 mm
Weight	13.5 kg	21 kg
Connection cross-section	with NYY-J max. 5 x 10 mm²	
Grid configurations	TN, TN-S, TT	
Display per charging point	LED, LCD indication (meter)	
Features / accessories		
Integrated charging cable	–	6.0 m
Integrated energy meter	compliant with calibration regulations	
Dynamic charging load control	●	
Authorization	RFID	
Warranty	2 years	
Certificates and approvals	IEC 61851-1:2019	
System compatibility	SMA eMobility Portal, SMA Data Manager M*	
Charging stand	○	
Mounting structure for charging stand (foundation base)	○	
RFID cards (MIFARE DESFire)	●	
Type designation / material number	EVCB-LB-3AC-ECC-10 / 204842-00.01	EVCB-3AC-ECC-10 / 204844-00.01

● Standard equipment ○ Optional – Not available Data at nominal conditions, Last revised: 05/2023 *) anticipated availability starting Q2/2023

Charging stands for EV Charger Business

Charging stand for EV Charger Business (one-sided)

Charging stand for mounting electrical connection devices on one side. Suitable for loads up to approx. 40 kg (on one side).

Technical data	Charging stand for EV Charger Business (one-sided)
General data	
Dimensions (W / H / D)	1421.5 / 565 / 435 mm
Weight	42.5 kg
Load	Up to about 40 kg (on one side)
Material	Steel, zinc-plated
Surface	Powder-coated
Warranty: 2 years	●
Item number	8104440298
Material number	206470-00.01

Charging stand for EV Charger Business (two-sided)

Charging stand for mounting electrical connection devices on both sides.
Suitable for loads up to approx. 40 kg (on one side); total load approx. 80 kg.

Technical data	Charging stand for EV Charger Business (two-sided)
General data	
Dimensions (W / H / D)	1422 / 565 / 435 mm
Weight	40 kg
Load	Up to approx. 40 kg (on one side), Total load approx. 80 kg
Material	Steel, zinc-plated
Surface	Powder-coated
Warranty: 2 years	●
Item number	8104440299
Material number	206463-00.01

Accessories for mounting the Charging Stand

Mounting structure for charging stand

Hot-dip galvanized welded sheet steel structure for setting in concrete.

Technical data	Mounting structure for charging stand (foundation base)
General data	
Dimensions (W / H / D)	500 / 480 / 320 mm
Weight	5.8 kg
Material	Steel, zinc-plated
Warranty: 2 years	●
Item number	8104440300
Material number	206465-00.01

● Standard features ○ Optional features – Not available Version: 05/2023