



/ EVCB-LB-3AC-10 / EVCB-3AC-10 / EVCB-LB-3AC-ECC-10 / EVCB-3AC-ECC-10



SMA EV Charger Business

Charging infrastructure for e-mobility
in the commercial sector

Flexible use

- For new and existing customers
- 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

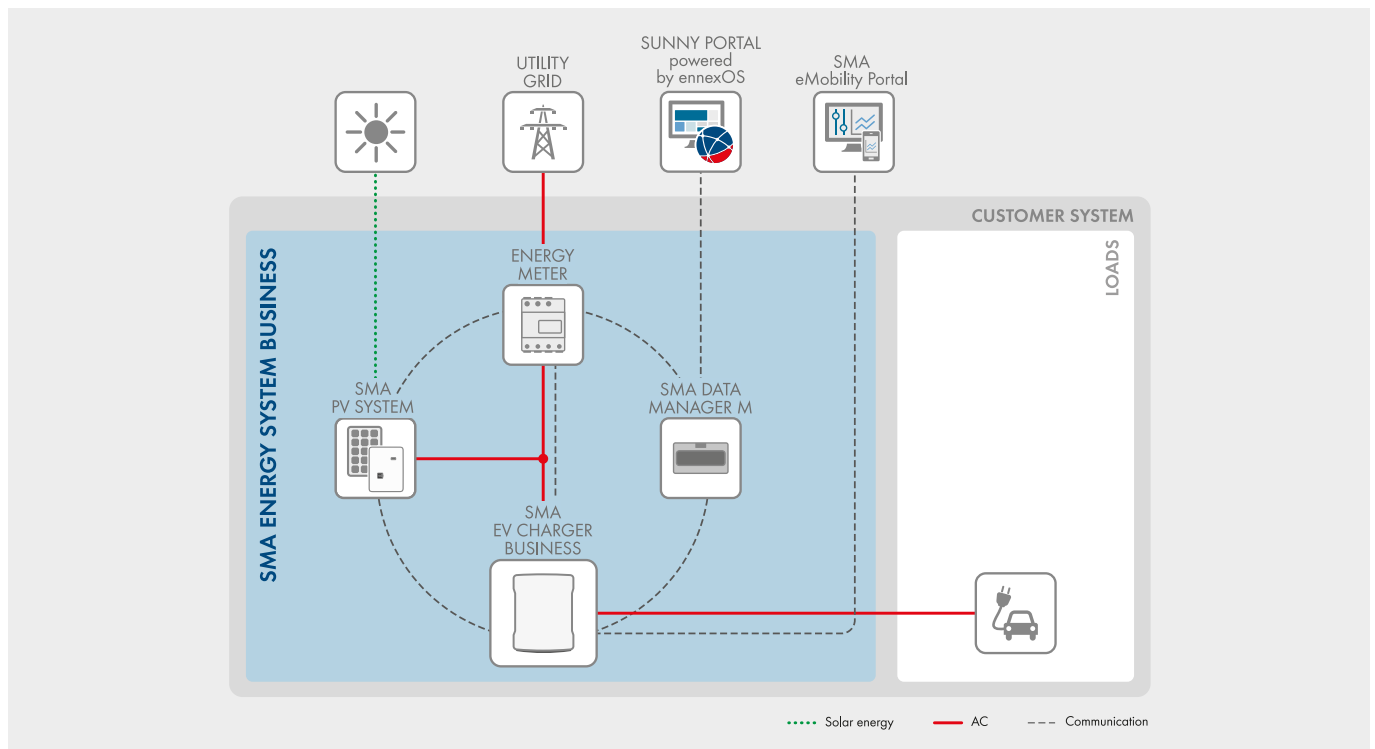
- Integrated dynamic load control
- Integrated direct current failure monitoring

Sustainable

- Produced in Germany
- CO₂-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 (6 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)		
Storage temperature range	−30°C to +70°C (−22°F to +158°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 m	
Integrated energy meter	MID-compatible		
Dynamic charging load control	●		
Authorization	RFID		
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 *) In preparation

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)		
Storage temperature range	−30°C to +70°C (−22°F to +158°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 mm ²		
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		
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-1B-3AC-ECC-10 / 204842-00.01	EVCB-3AC-ECC-10 / 204844-00.01	

● Standard equipment ○ Optional — Not available Data at nominal conditions *) In preparation

