

/ EVC22-3AC-20



SMA eCharger

Unlock the full charging power of the sun

/ The best from EV & PV with unique SMA experience
 / Highest level of safety, reliability and maximum convenience

ennexOS

PV optimized charging

- Intelligent charging modes
- Automatic phase switching
- Boost function
- Multi-EVC operation

Safe, reliable and convenient

- Easy planning
- Flexible installation
- Safe and reliable operation
- Convenient service

SMA eMobility Portal¹⁾

- Easy user management
- Overview of charging processes and utilization
- Billing of charging processes²⁾

Ready for the future

- Future compatibility with flexible rates
- AC-Bidi ready³⁾



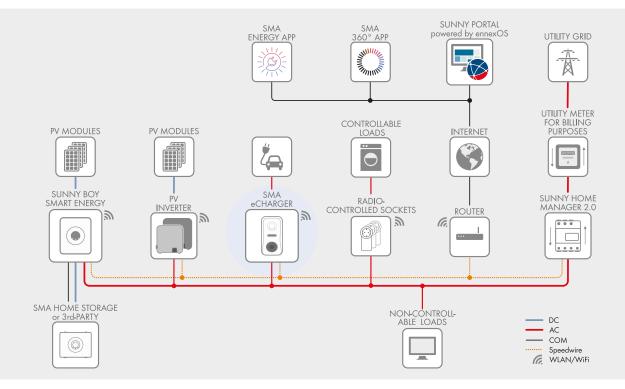
The new PV-optimized SMA eCharger makes switching to e-mobility easy. From hassle-free installation to user-friendly management, the SMA eCharger is designed for convenience, easy management and durability - and ready for the future energy transition on the road.

The SMA eCharger is tailored specifically to meet user needs. Its intelligent charging modes offer forecast-based operations, adapting seamlessly to user behavior. Thanks to the automatic phase-switching feature, EVs can be charged with self-generated electricity, even during periods of low solar power generation. With its unique combination of grid and single-phase PV power, it charges vehicles up to 2x faster than standard wallboxes, complying with grid regulations.

Installation and operation are flexible, safe and convenient, supported by SMA Smart Connected and a 5-year warranty. Prepared for future demands, the SMA eCharger integrates smoothly with dynamic tariff structures, while its AC-Bidi compatibility ensures future-proof functionality.

1) In preparation, available with a later software update

- 2) Energy measurement compliant with MID and calibration regulations in preparation with a later hardware release expected in 2025
- 3) Future availability as a chargeable e-product, compatible with selected vehicle models and subject to final standardization



| Inputs and outputs (AC)Charge power1.38 kW to 22 kW (configurable) ¹⁶ Charge power1.N-, AC, 230 V/ 3N-, AC, 400 VNominal village50 Hz / 40 HzNominal citragency50 Hz / 40 HzNominal citragencymms 32 A per line conductorAC connection vice a pring terminal $5 x 2.5 mn^2 to 5 x 10 mn^2 inflaxible / 5 x 2.5 mm^2 to 5 x 6 mm^2 flaxibleVihicle connection (in accordance with IEC 62196-1/2)Type 2 charging socket with shutterCommunication0 CPF 1.6 JSON17Backeden communication0 CPF 1.6 JSON17Vigital inputs / digital output6 / 30 VDC26Protective dovis6 / 30 VDC26Internal DC residual current detection6 m A functional according to IEC 62955Compatibility with external residual-current detection6 m A functional according to IEC 62955Compatibility with external residual-current detection-25°C to +50°C with infinitely variable detentingPower outgap protection-25°C to +50°C with infinitely variable detentingPower outgap protection (in accordance with IEC 60529) / impact resistanceIF 84 / IK 10Protective dovis-25°C to +50°C with infinitely variable detentingStorage temperature range-25°C to +50°C with infinitely variable detenting$ | Technical Data | SMA eCharger 22 |
|---|---|--|
| Nominal voltage 1N~, AC, 230 V / 3N~, ÅC, 400 V Nominal frequency S0 Hz / 40 Hz Nominal frequency S0 Hz / 40 Hz Nominal current max. 32 April Ine conductor AC-connection via a spring terminal 5x 2.5 mm² to 5x 10 mm² inflexible / 5x 2.5 mm² to 5x 10 mm² flexible Vehicle connection (in accordance with IEC 62196.1/2) Type 2 charging socket with alutter Communication ● (2 ports) / ● (● Backend communication OCP1 A [SONP] Potective devices 6 mA functional according to IEC 62955 Compatibility with external resiductorerent devices 6 m A functional according to IEC 62955 Protective devices 6 m A functional according to IEC 62955 Compatibility with external resiductorerent devices 8 mR CD Typ A s 30 mA Power outgag protection -25*C to +50*C with infinitely variable derating Storage temperature range -25*C to +50*C with infinitely variable derating Storage temperature range -25*C to +50*C with infinitely variable derating Degree of protection (maccordance with IEC 60292) / impoct resistance IP 54 / IK 10 Protective device on the accordance with IEC 621031 / Overwoltage category 1 / III Max, permisisble value for r | Inputs and outputs (AC) | |
| Nominal frequency 50 Hz / 60 Hz Nominal current max. 32 A per line conductor Acconnection via a spring terminal 5 x 2.5 mm² to 5 x 0 mm² flaxible / 5 x 2.5 mm² to 5 x 0 mm² flaxible Vehicle communication iterator in the standing of the | Charge power | 1.38 kW to 22 kW (configurable) ¹⁾ |
| Nominal current max. 32 A per line conductor AC-connection via a spring terminal 5 x 2.5 mm² to 5 x 10 mm² inflicible / 5 x 2.5 mm² to 5 x 6 mm² flexibble Vehicle connection [in accordance with IEC 62196-1/2] Type 2 charging sacket with shutter Communication 0 [2 ports] / ● / ● Backend communication 0 [2 ports] / ● / ● Digital inputy / digital cupty | Nominal voltage | 1N~, AC, 230 V / 3N~, AC, 400 V |
| AC-connection via a spring terminal 5 x 2.5 mm² to 5 x 10 mm² inflexible / 5 x 2.5 mm² to 5 x 6 mm² flexible Vehicle commerciania Type 2 charging socket with shutter Communication • (2 ports) / ● / ● Backend communication • (2 ports) / ● / ● Vehicle communication • (2 ports) / ● / ● Vehicle communication • (2 ports) / ● / ● Digital inputs / digital output ● / 2 ports) / ● / ● Protective devices 6 / 30 VDC ²¹ Internal DC residual current detection 6 mA functional according to IEC 62955 Comparitients RCD Typ A ≤ 30 mA Power outge protection ● Operating temperature range -25°°C to +50°°C with Infinitely variable derating Storage lemperature range -25°°C to +70°°C Bordee dow MSL 0 m to 2000 m General Data 0 Dimensions (W / H / D) 200 m / 495 m / 190 mm Veight 5.0 kg Grid configuration 0 / 0 / 0 Authorization 0 / 0 / 0 Charging cable 5.0 m / 7.5 m / 10.0 m 0 / 0 / 0 / 0 Authorization 0 / 0 / 0 Grid configuration REID in accordance with stoards ISO IEC 14443 <td>Nominal frequency</td> <td>50 Hz / 60 Hz</td> | Nominal frequency | 50 Hz / 60 Hz |
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| Vehicle connection (in accordance with IEC 62196-1/2) Type 2 charging socket with shutter Communication (2 parts) / ● / ● (2 parts) / ● / ● Backand communication (2 parts) / ● / ● (2 parts) / ● / ● Vehicle communication (2 parts) / ● / ● (2 parts) / ● / ● Vehicle communication (2 parts) / ● / ● (2 parts) / ● / ● Vehicle communication (12 parts) / ● / ● (2 parts) / ● / ● Vehicle communication (12 parts) / ● / ● (2 parts) / ● / ● Vehicle communication (12 parts) / ● / ● (2 parts) / ● / ● Internal Diversidual current detection (2 parts) / ● / ● (2 parts) / ● / ● Opperating themperature range (2 + 0 + 50 °C with Infinitely variable detarting (2 + 0 + 70 °C Partice in protection (in accordance with IEC 652103) / Overvoltage category <u< td=""><td>AC-connection via a spring terminal</td><td>5 x 2.5 mm² to 5 x 10 mm² inflexible / 5 x 2.5 mm² to 5 x 6 mm² flexible</td></u<> | AC-connection via a spring terminal | 5 x 2.5 mm ² to 5 x 10 mm ² inflexible / 5 x 2.5 mm ² to 5 x 6 mm ² flexible |
| Ethernel / Wi-Fi / RS485 ● (2 ports) / ● / ● Backend communication OCCP 1.6 JSON ² Welicle communication IEC 618511-12 Worde 3, ISO 15118 ³¹ Digital inputs / digital output 6 / 30 VDC ²¹ Protective devices 6 mA functional according to IEC 62955 Compatibility with external residual-current devices 8 CD Typ A ≤ 30 mA Prover outage protection ● Ambient conditions during operation ● Operating temperature range -25°C to +50°C with infinitely variable deroting Storage temperature range -25°C to +70°C Degree of protection (na coordance with IEC 60529) / impact resistance IP 54/ IK 10 Protection class (in accordance with IEC 60529) / impact resistance 95% Altitude above MSL 0 m to 2000 m General Data 95% Dimensions (W / H / D) 270 mm / 495 mm / 190 mm Weight 5.0 kg Grid configurations TN / TT / IT Device display IED status display, display, impuls IED2] (1000 imp/kWh) Standby self-consumption < 6.5 W | | Type 2 charging socket with shutter |
| Backand communication OCCPP 1.6 JSON ²¹ Vehicle communication IEC 61831-1/2 Mode 3, ISO 15118 ⁻²¹ Digital input; digital output 6 / 30 VDC ²¹ Protective devices 6 / 30 VDC ²¹ Internal DC residual current detection 6 mA functional according to IEC 62955 Compatibility with external residual-current devices RCD Typ A ≤ 30 mA Power outage protection - Operating temperature range -25°C to +50°C with infinitely variable derating Storage temperature range -25°C to +50°C with infinitely variable derating Storage temperature range -25°C to +50°C with infinitely variable derating Mathem conditions during operation -25°C to +50°C with infinitely variable derating Nors, temperature range -25°C to +50°C with infinitely variable derating Max, permissible value for relative humidity (non-condensing) 0 m to 2000 m Max, permissible value for relative humidity (non-condensing) 0 m to 2000 m General Data 270 mm / 495 mm / 190 mm Weight S.0 kg S.0 kg Grid configurations IED 21 (1000 imp/kWh) Standby self-consumption < 6.5 W | Communication | |
| Vehicle communication IEC 61851-1/2 Mode 3, ISO 15118 ²¹ Digital inputs / digital output 6 / 30 VDC ²¹ Protective devices 6 Internal DC residual current detection 6 mA functional according to IEC 62955 Compatibility with external residual-current devices 6 Power outge protection 6 Ambient conditions during operation -25°C to +50°C with infinitely variable derating Storage temperature range -25°C to +50°C with infinitely variable derating Storage temperature range -25°C to +50°C with infinitely variable derating Max, permissible value for relative humidity (non-condensing) 1/ III Max, permissible value for relative humidity (non-condensing) 0 m to 2000 m General Data 200 mm / 495 mm / 190 mm Dimensions (W / H / D) 270 mm / 495 mm / 190 mm Weight 5.0 kg Grid configurations Variants Features / accessories 0 m to 2000 m Charging cable 5.0 m / 7.5 m / 10.0 m 0 / 0 / 0 Authorization 0 / 0 / 0 Authorization CE, DIN EN IEC 61851-1, DIN EC 75 614397, IEC 62955 System compatibility (s of November 2023) Webconneet, SMA Suory App. SMA Modbus < | Ethernet / Wi-Fi / RS485 | ● (2 ports) / ● / ● |
| Digital inputs / digital output 6 / 30 VDC ²¹ Protective devices 6 mA functional according to IEC 62955 Compatibility with external residual-current devices RCD Typ A ≤ 30 mA Power outage protection - Ambient conditions during operation - Operating temperature range -25°C to +50°C with infinitely variable derating Storage temperature range -25°C to +70°C Degree of protection (in accordance with IEC 62103) / Overvoltage category 1 / III Max, permissible value for relative humidity (non-condensing) 95% Altitude above MSI. 0 m to 2000 m General Data - Dimensions (W / H / D) 270 mm / 495 mm / 190 mm Weight 1 LED status display, display, itigslay, display, impuls LED2) (1000 imp/kWh) Storage coles 0.0 m / 7.5 m / 10.0 m 0 / 0 / 0 / 0 Authorization SEMP, SMA Moduus Warranty Free years Certificates and approvals (more available on request) SMA Sempt / SMA 30° app. SMA Altida Ota logs SEMP, SMA Moduus Warranty Free years Certificates and approvals (more available on request) SMA Semery App. SMA Altida SIO 1EC 14443 Data logs </td <td>Backend communication</td> <td>OCPP 1.6 JSON²⁾</td> | Backend communication | OCPP 1.6 JSON ²⁾ |
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| Device displayLED status display, display | | ÷ |
| Standby self-consumption< 6.5 WFeatures / accessoriesCharging cable 5.0 m / 7.5 m / 10.0 m0 / 0 / 0Authorization0 / 0 / 0AuthorizationRFID in accordance with standards ISO IEC 14443Data logsSEMP, SMA ModbusWarrantySEMP, SMA ModbusCertificates and approvals (more available on request)CE, DIN EN IEC 61851-1, DIN EN ISO 15118, DIN IEC / TS 61439-7, IEC 62955System compatibility (as of November 2023)Webconnect, SMA Sunny Home Manager 2.0Visualization and controlSMA Energy App, SMA 360° app, SMA eMobility Portal ²¹ , SUNNY PORTAL, SUNNY PORTAL powered by ennexOSRFID cards (MIFARE DESFIRE EV3)2x RFID cards included in the scope of deliverySMA Smart ConnectedImage: Control C | Grid configurations | |
| Features / accessories Charging cable 5.0 m / 7.5 m / 10.0 m Authorization Data logs Warranty Certificates and approvals (more available on request) System compatibility (as of November 2023) Visualization and control RFID cards (MIFARE DESFIRE EV3) SMA Smart Connected | | |
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| Visualization and control SUNNY PORTAL powered by ennexOS RFID cards (MIFARE DESFIRE EV3) 2x RFID cards included in the scope of delivery SMA Smart Connected | System compatibility (as of November 2023) | |
| RFID cards (MIFARE DESFIRE EV3) 2x RFID cards included in the scope of delivery SMA Smart Connected • | Visualization and control | |
| SMA Smart Connected | RFID cards (MIFARE DESFIRE EV3) | |
| Model type number EVC22-3AC-20 | | • |
| | Model type number | EVC22-3AC-20 |

• Standard equipment Optional - Not available Data at nominal conditions Last revised: 09/2024

1) Password-protected limitation of charging power, e.g., B. possible to 11 kW 2) In preparation, available with a later software update

SMA-Solar.com

SMA Solar Technology AG