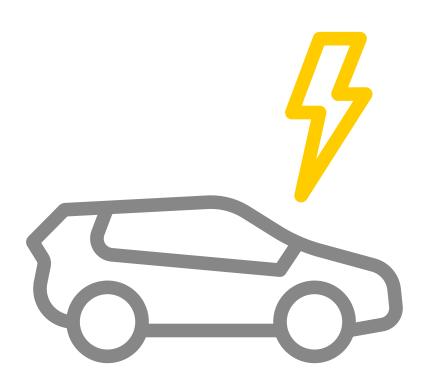
EMOBILITY PV CHARGING SOLUTIONS



PV CHARGING SOLUTIONS RESIDENTIAL COMMERCIAL





| Product series | | IQ EV Charger | |
|--|------------------------------------|--|--|
| Product name | | IQ EV Charger 2 | |
| Wallbox / Char Charging type (| | Wallbox / AC | |
| Cable / Socket | | Type 2 Cable / Female | |
| | Private | • | |
| Suitable for | Semi-public | • | |
| | In public | 0 | |
| Max. charging | power (kW) | 22 kW | |
| Mains connecti | ion | 1- or 3-phase 230/400V / 32A, 50Hz | |
| Protection + | DC residu- al current switch | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | |
| access autho- rization | Dynamic load ma- nagement | 0 | |
| | RFID / App | •/• | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus; dynamic electricity tariffs; fixed charging times; Limitation by EVU (via eebus) | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | •/•/○ | |
| Communication / Interfaces | | WLAN, LAN, RS485, CAN | |
| Special features | | Flexible AC connection 1- or 3-phase, autom. Phase switching; | |

 $[\]ensuremath{^{**}}$ Dependent on release and provision date of the manufacturer



| Product series | | Wattpilot | | | |
|--|------------------------------------|---|---|---|--|
| Product name | | Wattpilot Go 11 Y / 22 J | Wattpilot Home 11 Y / 22 J | Wattpilot Flex Home 11 / 22 C6 | Wattpilot Flex Pro 11 / 22 C6E |
| Wallbox / Char Charging type (| | | Wallbox / AC | | |
| Cable / Socket | | Type 2 socket | | Type 2 Cable | |
| | Private | | | | |
| Suitable for | Semi-public | (|) | 0 | • |
| | In public | (|) | (| |
| Max. charging | power (kW) | 11 kW / 22 kW | 11 kW / 22 kW | 11 kW / 22 kW | 11 kW / 22 kW |
| Mains connection | | 1-phase 230 V / 3-phase 400V, 50 Hz (by means of adapter) | 1-phase 230 V / 3-phase 400V, 50 Hz (fixed connec- tion) | 1-phase 230 V / 3-phase 400V, 50 Hz (fixed connec- tion) | 1-phase 230 V / 3-phase 400V, 50 Hz (fixed connec- tion) |
| | DC residu- al current switch | Integrated residual current cutSwitch type A and DC fault current detection > 6mA | | Integrated residual current cutSwitch type A and DC fault current detection > 6mA | |
| Protection + access autho- rization | Dynamic load ma- nagement | • | | | |
| | RFID / App | • / • | | • | / • |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus + fixed charging times;Limitation by EVU (Via integrated analog input) | PV surplus; Dynamic elect- ricity tariffs; fixed charging times; limitation by EVU (Via integrated analog input) | | ry tariffs; fixed charging times; /U (via integr.DI) |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | ●/○/○ | | •,0,0 | ●,●,○ |
| Communication / Interfaces | | Wi-Fi | | LAN + WLAN / 2 × DI | |
| Special features | | Mobile solution with variable power plug and APp connection, switching 1/3-phase charge | Up to 3 systems in parallel, unlimited with EMIL control, switching 1/3-phase charge, standalone app, Eco / Next- Trip mode | Permanently installed solution for 1/3-phase AC connection, LaduNg with PV surplus, 1P/3P phase switching | Permanently installed solution for 1-/3-phase AC connection, charging with PV excess, 1P/3P phase switching, can also be used in semi-public areas by MID counters |

GOODWE

| Product series | | нса | | HCA 2.0 | |
|--|------------------------------------|---|--------------------------|---|--------------------------|
| Product name | | GW 11K-HCA | GW 22K-HCA | GW 11K-HCA-20 | GW 22K-HCA-20 |
| Wallbox / Char Charging type (| | Wallbo | ox / AC | Wallbo | ox / AC |
| Cable / Socket | | Туре 2 | Cable | Type 2 Cable | |
| | Private | | | | |
| Suitable for | Semi-public | (|) | |) |
| | In public | (| | | |
| Max. charging | power (kW) | 11 kW | 22 kW | 11 kW | 22 kW |
| Mains connection | | 3-phase 230V / 16A, 50Hz | 3-phase 400V / 32A, 50Hz | 3-phase 230V / 16A, 50Hz | 3-phase 400V / 32A, 50Hz |
| Danta di ma | DC residu- al current switch | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | |
| Protection + access autho- rization | Dynamic load ma- nagement | 0 | | • | |
| | RFID / App | 0, | • | •/• | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus + fixed charging times (With Goodwe system) | | PV surplus + fixed charging times (With Goodwe system) | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | ●/○/○ | | •/0/0 | |
| Communication / Interfaces | | Wi-Fi | | WLAN, LAN, RS485 | |
| Special features | | Close networking with Goodwe home storage system | | Close networking with Goodw se switching; loa | |

 $[\]ensuremath{^{**}}$ Dependent on release and provision date of the manufacturer





| Product series | | Huawei Smart Charger | | Enector | |
|--|------------------------------------|--|--------------------------|---|--|
| Product name | | Smart Charger AC 7.4 / 22 | | Enector AC Wallbox | |
| Wallbox / Char Charging type (| | Wallbo | ox / AC | Wallbox / AC | |
| Cable / Socket | | Туре 2 | socket | Type 2 Cable | |
| | Private | | | • | |
| Suitable for | Semi-public | |) | 0 | |
| | In public | (| | 0 | |
| Max. charging | power (kW) | 7.4 kW | 22 kW (11 kW throttled) | 3.7 (1-phase); 11 (3-phase) | |
| Mains connection | | 1-phase 230V / 32A, 50Hz | 3-phase 400V / 32A, 50Hz | 1-phase 230V/16A, 50Hz, 3-phase 400V/16A, 50Hz | |
| | DC residu- al current switch | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | | DC residual current detection > 6mA, residual current circuit breaker type A installed | |
| Protection + access autho- rization | Dynamic load ma- nagement | 0 | | 0 | |
| | RFID / App | •/• | | 0,0 | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus or Fixed charging times; Dynamic electricity tariffs (via EMMA); Limitation EVU (via Modbus) | | PV surplus (with Kostal KSEM and activation code) Fixed charging times, Limitation EVU (integrated terminals) | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | •/0/0 | | •,0,0 | |
| Communication / Interfaces | | WLAN + LAN | | RS485 | |
| Special features | | Autom. Switching 1-/3-phase charge; 2-fold cascade incl. PV excess charging with EMMA | | Monitoring in the Kostal Portal, 7.5 m charging cable | |



| Product series | | SMA EV Charger | | | | |
|--|------------------------------------|---|-----------------------------|--|--|--|
| Product name | | SMA EV Charger 7,4 | SMA EV Charger 22 | SMA EV Charger 22 DS | SMA EV Charger Business | |
| Wallbox / Char Charging type (| | wallbox / AC | | | | |
| Cable / Socket | | Type 2 cable | | Type 2 socket | 2 x Type 2 socket / Type 2 cable | |
| | Private | | • | | 0 | |
| Suitable for | Semi-public | | 0 | | • | |
| | In public | | (| | | |
| Max. charging | power (kW) | 7.4 kW | 22 kW | 22 kW | 2 x 22 kW | |
| Mains connection | | 1-phase 230V / 32A, 50Hz | 3-phase 400V / 32A, 50Hz | 3-phase 400V / 32A, 50Hz | 3-phase 400V/ 64A, 50Hz | |
| Protection + | DC residu- al current switch | PV surplus; fixed + flexible charging times (via Home Manager) Limitation by EVU | | DC residual current detection > 6mA, residual current circuit breaker type A installed | | |
| access autho- rization | Dynamic load ma- nagement | , with SMA Home Manager | | | , with compatible counter | |
| | RFID / App | 0, | , O | •. | •/○ | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus; dynamic electricity tariffs (via Home Manager); manual charging times;Limitation by EVU (via Home | | n by EVU (via Home Manager) | | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | ●/○/○ | | ●/●/○ | •**/•**/•** | |
| Communication / Interfaces | | WLAN + LAN | | | LAN | |
| Special features | | Boost function, blackout protection; forecast-based char- ging | | 3-way cascadable; RFID; boost function, blackout protection; forecast-based charging; preparation for bidirectional charging | Boost function, blackout protection; forecast-based charging | |

 $[\]ensuremath{^{**}}$ Dependent on release and provision date of the manufacturer

SCFAR

| Product series | | Sofar EV-Charger |
|--|------------------------------------|--|
| Product name | | EV11k-AC-02 |
| Wallbox / Char Charging type (| | Wallbox / AC |
| Cable / Socket | | Type 2 Cable |
| | Private | • |
| Suitable for | Semi-public | 0 |
| | In public | 0 |
| Max. charging | power (kW) | 11 kW |
| Mains connection | | 3-phase 230V / 16A, 50Hz |
| Protection + | DC residu- al current switch | DC residual current detection > 6mA, residual current circuit breaker type A installed |
| Protection + access autho- rization | Dynamic load ma- nagement | |
| | RFID / App | • |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus;Fixed charging times; |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | •/0/0 |
| Communication / Interfaces | | RS485, WLAN, |
| Special features | | Monitoring in the Sofar Portal; 7.0 m charging cable |



| Product series | | Smart EV Charger | | Smart EV Charger G2 | | |
|--|------------------------------------|---|--------------------------|---|--------------------------|--|
| Product name | | X3-EVC11K | X3-EVC22K | X3-HAC-11 | ХЗ-НАС-22 | |
| Wallbox / Char Charging type (| | | Wallbo | ox / AC | | |
| Cable / Socket | | Both possible | | Both possible | | |
| | Private | | | | | |
| Suitable for | Semi-public | | (| | | |
| | In public | \circ | | | | |
| Max. charging | power (kW) | 11 kW | 22 kW | 11 kW | 22 kW | |
| Mains connection | | 3-phase 400V / 16A, 50Hz | 3-phase 400V / 32A, 50Hz | 3-phase 400V / 16A, 50Hz | 3-phase 400V / 32A, 50Hz | |
| | DC residu- al current switch | Integrated residual current cutSwitch type A and DC fault current detection > 6mA | | Integrated residual current cutSwitch type A and DC fault current detection > 6mA | | |
| Protection + access autho- rization | Dynamic load ma- nagement | | Yes, with Sola | ax Smart Meter | | |
| | RFID / App | •/○ | | , O | | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus; manual charging times (With Solax Smart Me- ter); Limitation by EVU (integrated terminals / Datahub) | | PV surplus (with Solax Sma times; Limitation by EVU(Inte | | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | •/0/0 | | ●/○/○ | | |
| Communication / Interfaces | | WLAN + RS485 | | LAN + WLAN + 4G (opt.) / 2 × RS485 | | |
| Special features | | | | E-phase Wallobox; autom. Phase switching; dyn. Load management | | |

 $[\]ensuremath{^{**}}$ Dependent on release and provision date of the manufacturer

solar<u>edge</u>

| Product series | | Home EV Charger | |
|--|------------------------------------|---|--|
| Product name | | SE-EVK22Cxx-01 | |
| Wallbox / Char Charging type (| | Wallbox / AC | |
| Cable / Socket | | Type 2 Cable | |
| | Private | • | |
| Suitable for | Semi-public | 0 | |
| | In public | \circ | |
| Max. charging | power (kW) | 22 kW (11 kW throttled) | |
| Mains connect | ion | 3-phase 400V / 32A, 50Hz | |
| Protection + | DC residu- al current switch | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | |
| access autho- rization | Dynamic load ma- nagement | \circ | |
| | RFID / App | •/○ | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | PV surplus; Dynamic electricity tariffs + fixed charging times (With SolarEdge ONE controller); Limitation by EVU (With SolarEdge ONE Controller) | |
| Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant | | ●/●/● | |
| Communication / Interfaces | | WLAN + LAN | |
| Special features | | | |

Hersteller



| Produktserie | | Sungrow EV Charger | | | | |
|--|------------------------------------|---|---|---|---|--|
| Produktname | | AC011E-01 | AC22E-01 | IDC30E | IDC180E | |
| Wallbox / Lad | | Wallbox / AC | Wallbox / AC | Wallbox / DC | Charging station / DC | |
| Kabel/Buchse | | Type 2 Cable | Type 2 Cable | CCS Combo-2 plug | 2 x CCS Combo-2 connectors | |
| | Privat | | | | | |
| Geeignet für | Halb- öffentlich | 0 | 0 | • | • | |
| | Öffentlich | 0 | 0 | 0 | • | |
| Max. Ladeleist | ung (kW) | 11 kW | 22 kW | 30 kW | 180 kW | |
| Netzanschluss | | 3-phase 400V / 16A, 50Hz | 3-phase 400V / 32A, 50Hz | 3-phase 400V / 63A, 50Hz | 3-phase 400V / 275A, 50Hz | |
| Schutz + Zu- | DC-Fehler- stromschal- ter | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | DC fault current detection > 6mA (on-site Residual current circuit breaker type A required) | DC fault current detection > 6mA and Residuar current circuit breaker type ARequi- red on site | |
| griffsberech- tigung | Dynamisches Last- management | Yes | | | | |
| | RFID / App | •, | , ● | •/○ | •/• | |
| SMART Lade-Features (PV-Überschuss (mit Eigen- system), dynamische Strom- tarife, manuelle Ladezeiten, Limitierung durch EVU nach EnWG 14a) | | PV surplus; Dynamic electricity tariffs + fixed charging times (With iHomeManager); Limitation by EVU (Via Modbus + OCCP) | | PV surplus; Dynamic elect- ricity tariffs + fixed charging times (Via iHomeManager) | Fixed charging times (With Sungrow system) | |
| Erfassung Ladedaten Herstellerportal – App / MID Zähler / Eichrechtskonform | | •/0/0 | | •/•/• | ●/○/● | |
| Kommunikation / Schnitt- stellen | | Wi-Fi | | | Ethernet, 2G, 3G, 4G | |
| Besonderheiten | | Autom. Switching 1/3-phase charge; compatible with SHRT V11, V112 and SHRT-20. | Autom. Switching 1/3-phase charge; compatible with SHRT V11, V112 and SHRT-20. The iHomeManager is requi- red for connection to SH-T. | DC-CharGer, cascadable, with optional payment terminal | DC charger, cascadeable, compliant with the law; with optional payment terminal | |

Explanation of the specifications

Instructions

| Product series | | Model series of the manufacturer | |
|--|------------------------------------|--|--|
| Product name | | Name of the article | |
| Wallbox / charcharging type (| | Design and charging type of the charger | |
| Cable / Socket | | Design of the charging connection | |
| | Private | Application for home use | |
| Suitable for | Half-Public | Application in commercial / company charging park | |
| | Public | Use in public areas with billing | |
| Max. charging | power (kW) | Maximum charging capacity | |
| Grid connection | 1 | Type of mains connection | |
| Protection + | DC residu- al current device | Integrated DC residual current circuit breaker | |
| access authorisation | Dynamic load ma- nagement | Monitoring of the maximum power consumption at the grid connection point | |
| | RFID / App | Access authorization with RFID | |
| SMART Charging Features (PV surplus (with own system), Dynamic electri- city tariffs, Manual loading times,Limitation by EVU according to EnWG 14a) | | Available charging modes (PV surplus / fixed charging times / externally controlled charging times via exchange, energy supply company, etc.) | |
| Acquisition of charging data Manufacturer portal - APP / MID meter / calibration law compliant" | | Version for recording the charging data (app - residential / MID for commercial / calibration law for public use) | |
| Communication / Interfaces | | Integrated com interfaces (WLAN, LAN, etc.) | |
| Features | | Various special features for the charger | |



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