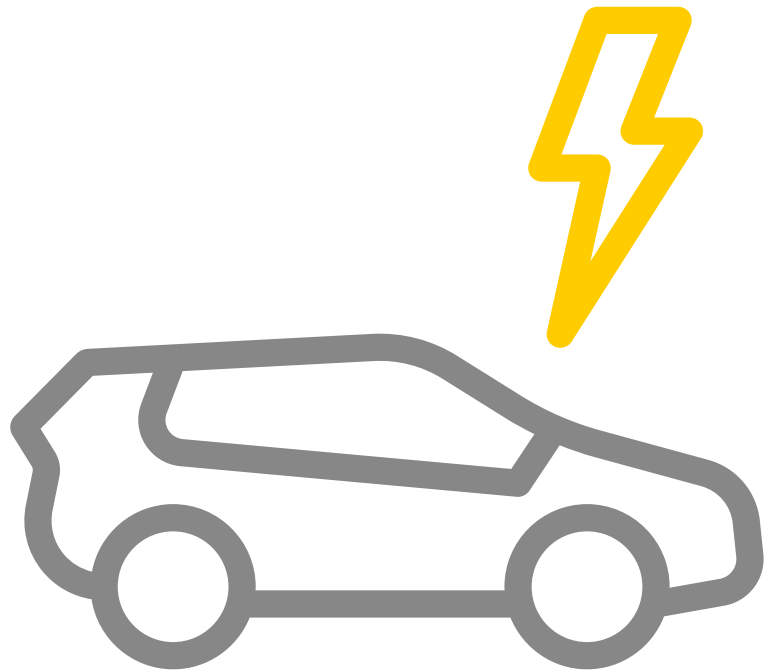


EMOBILITY PV CHARGING SOLUTIONS



PV CHARGING
SOLUTIONS

RESIDENTIAL

COMMERCIAL

Manufacturer



Product series		IQ EV Charger
Product name		IQ EV Charger 2
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC
Cable / Socket		Type 2 Cable / Female
Suitable for	Private	●
	Semi-public	●
	In public	○
Max. charging power (kW)		22 kW
Mains connection		1- or 3-phase 230/400V / 32A, 50Hz
Protection + access authorization	DC residual current switch	DC fault current detection > 6mA (on-site Residual current circuit breaker type A required)
	Dynamic load management	○
	RFID / App	● / ●
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		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;

** Dependent on release and provision date of the manufacturer

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 / Charging station / Charging type (AC / DC)		Wallbox / AC			
Cable / Socket		Type 2 socket		Type 2 Cable	
Suitable for	Private	●		●	
	Semi-public	○		○	●
	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 connection)	1-phase 230 V / 3-phase 400V, 50 Hz (fixed connection)	1-phase 230 V / 3-phase 400V, 50 Hz (fixed connection)
Protection + access authorization	DC residual 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	
	Dynamic load management	●		●	
	RFID / App	● / ●		● / ●	
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus + fixed charging times; Limitation by EVU (Via integrated analog input)	PV surplus; Dynamic electricity tariffs; fixed charging times; limitation by EVU (Via integrated analog input)	PV surplus; dynamic electricity tariffs; fixed charging times; limitation by EVU (via integr.DI)	
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		● / ○ / ○		● / ○ / ○	● / ● / ○
Communication / Interfaces		Wi-Fi		LAN + WLAN / 2 x 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

Manufacturer

Product series		HCA G2	
Product name		GW 11K-HCA-20	GW 22K-HCA-20
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC	
Cable / Socket		Type 2 Cable	
Suitable for	Private	<input checked="" type="radio"/>	
	Semi-public	<input type="radio"/>	
	In public	<input type="radio"/>	
Max. charging power (kW)		11 kW	22 kW
Mains connection		3-phase 230V / 16A, 50Hz	3-phase 400V / 32A, 50Hz
Protection + access authorization	DC residual current switch	DC fault current detection > 6mA (on-site Residual current circuit breaker type A required)	
	Dynamic load management	<input checked="" type="radio"/>	
	RFID / App	<input checked="" type="radio"/> / <input checked="" type="radio"/>	
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus + fixed charging times(With Goodwe system) Limitation by EVU	
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>	
Communication / Interfaces		WLAN, LAN, RS485	
Special features		Close networking with Goodwe home storage system; phase switching; load management	

** Dependent on release and provision date of the manufacturer

Manufacturer


KOSTAL
Solar Electric

Product series		Huawei Smart Charger		Enector
Product name		Smart Charger AC 7.4 / 22		Enector AC Wallbox
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC		Wallbox / AC
Cable / Socket		Type 2 socket		Type 2 Cable
Suitable for	Private	<input checked="" type="radio"/>		<input checked="" type="radio"/>
	Semi-public	<input type="radio"/>		<input type="radio"/>
	In public	<input type="radio"/>		<input type="radio"/>
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
Protection + access authorization	DC residual 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
	Dynamic load management	<input type="radio"/>		<input type="radio"/>
	RFID / App	<input checked="" type="radio"/> / <input checked="" type="radio"/>		<input type="radio"/> / <input type="radio"/>
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		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		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>
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

Manufacturer



Product series		SMA EV Charger		
Product name		SMA EV Charger 22	SMA EV Charger 22	SMA EV Charger Business
Wallbox / Charging station / Charging type (AC / DC)		wallbox / AC		
Cable / Socket		Type 2 cable	Type 2 socket	2 x Type 2 socket / Type 2 cable
Suitable for	Private	<input checked="" type="radio"/>		<input type="radio"/>
	Semi-public	<input type="radio"/>		<input checked="" type="radio"/>
	In public	<input type="radio"/>		<input type="radio"/>
Max. charging power (kW)		22 kW	22 kW	2 x 22 kW
Mains connection		3-phase 400V / 32A, 50Hz	3-phase 400V / 32A, 50Hz	3-phase 400V / 64A, 50Hz
Protection + access authorization	DC residual 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
	Dynamic load management	<input checked="" type="radio"/> , with SMA Home Manager		<input checked="" type="radio"/> , with compatible counter
	RFID / App	<input type="radio"/> / <input type="radio"/>	<input checked="" type="radio"/> / <input type="radio"/>	
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus; Dynamic electricity tariffs (via Home Manager); fixed charging times; limitation by utility (via Home Manager)		PV surplus; fixed charging times; Dynamic electricity tariffs + limitation by utility (via Home Manager); ISO 15118 via Scan2Pay function
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>	<input checked="" type="radio"/> / <input checked="" type="radio"/> / <input type="radio"/>	<input checked="" type="radio"/> ** / <input checked="" type="radio"/> ** / <input checked="" type="radio"/> **
Communication / Interfaces		WLAN + LAN		LAN
Special features		Boost function, blackout protection; forecast-based charging	3-way cascable; RFID; boost function, blackout protection; forecast-based charging; preparation for bidirectional charging	Boost function, blackout protection; forecast-based charging

** Dependent on release and provision date of the manufacturer

Manufacturer



Product series		Smappee EV Charger			
Product name		EV Wall Home 22	EV One Home 22	EV Ultra Single 80S / 240S	"EV Ultra Dual 40D / 120D
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC	Charging station / AC	Charging station / DC	Charging station / DC
Cable / Socket		Type 2 socket	Type 2 socket	CCS Combo-2 plug	2 x CCS Combo-2 connectors
Suitable for	Private	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
	Semi-public	<input checked="" type="radio"/> (only version with calibration right)	<input checked="" type="radio"/>	<input checked="" type="radio"/> (with Pay Station)	
	In public	<input checked="" type="radio"/> (mit Pay Station)	<input type="radio"/>	<input checked="" type="radio"/> (with Pay Station)	
Max. charging power (kW)		22 kW	22 kW	80 / 240 kW	2 x 40 / 2 x 120 kW
Mains connection		1-/3-phase 230/400V / 16/32A, 50Hz	3-phase 400V / 32A, 50Hz	3-phase 400V / 120A/350A, 50Hz	3-phase 400V / 120A/350A, 50Hz
Protection + access authorization	DC residual current switch	PV surplus (with Infinity Kit + Solar Add-on), fixed charging times; limitation by utility (Infinity Kit + Solar Add-on + SG Ready); ISO 15118 via Smappee Pay Station		Dynamic electricity tariffs (via Business subscription plan); fixed charging times; limitation by utility; ISO 15118 via Smappee Pay Station	
	Dynamic load management	<input checked="" type="radio"/> (with Infinity Kit)	<input checked="" type="radio"/> (with Infinity Kit)	<input checked="" type="radio"/>	
	RFID / App	<input checked="" type="radio"/> / <input checked="" type="radio"/>			
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus (with Infinity Kit + Solar Add-on), fixed charging times; limitation by EVU (Infinity Kit + Solar Add-on + SG Ready)		Dynamic electricity tariffs (via business subscription plan); fixed charging times; limitation by EVU	
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input checked="" type="radio"/> / Optional	<input checked="" type="radio"/> / <input checked="" type="radio"/> / <input type="radio"/>	<input checked="" type="radio"/> / <input checked="" type="radio"/> / <input checked="" type="radio"/>	
Communication / Interfaces		WLAN + LAN	WLAN + LAN	LAN + 4G	
Special features		Wallbox for home use; incl. 5 year subscription for Smappee Smart subscription plan	Charging station for home use; incl. measuring converters for PV surplus charging; incl. 5 year subscription for Smappee Smart Subscription Plan	DC-Charger, cascadeable, 1 / 2 charging points; calibration law compliant; with optional payment terminal (Pay Station); additional functions via Smappee Business subscription plan	

Manufacturer

SOFAR

Product series		Sofar EV-Charger
Product name		EV11k-AC-02
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC
Cable / Socket		Type 2 Cable
Suitable for	Private	<input checked="" type="radio"/>
	Semi-public	<input type="radio"/>
	In public	<input type="radio"/>
Max. charging power (kW)		11 kW
Mains connection		3-phase 230V / 16A, 50Hz
Protection + access authorization	DC residual current switch	DC residual current detection > 6mA, residual current circuit breaker type A installed
	Dynamic load management	<input type="radio"/>
	RFID / App	<input checked="" type="radio"/>
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus; Fixed charging times;
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>
Communication / Interfaces		RS485, WLAN,
Special features		Monitoring in the Sofar Portal; 7.0 m charging cable

Manufacturer

solar**edge**

Product series		One EV Charger
Product name		One / One Pro
Wallbox / Charging station / Charging type (AC / DC)		Wallbox AC
Cable / Socket		Type 2 socket
Suitable for	Private	Yes
	Semi-public	Yes (only Pro version)
	In public	No
Max. charging power (kW)		22 kW (11 kW throttled)
Mains connection		1-/3 phase 400V / 32A, 50Hz
Protection + access authorization	DC residual current switch	DC fault current detection > 6mA (on-site Residual current circuit breaker type A required)
	Dynamic load management	<input checked="" type="checkbox"/>
	RFID / App	<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/>
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/> / <input type="checkbox"/>
Communication / Interfaces		WLAN + LAN (LTE only Pro version)
Special features		Wallbox for home use; Pro version with MID counter; autom. Phase switching; dyn. Load management; 1- and 3-phase operation possible

Manufacturer



Product series		Smart EV Charger G2	
Product name		X3-HAC-11	X3-HAC-22
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC	
Cable / Socket		Both possible	
Suitable for	Private	<input checked="" type="radio"/>	
	Semi-public	<input type="radio"/>	
	In public	<input type="radio"/>	
Max. charging power (kW)		11 kW	22 kW
Mains connection		3-phase 400V / 16A, 50Hz	3-phase 400V / 32A, 50Hz
Protection + access authorization	DC residual current switch	Integrated residual current cutSwitch type A and DC fault current detection > 6mA	
	Dynamic load management	<input checked="" type="radio"/> , with Solax Smart Meter	
	RFID / App	<input checked="" type="radio"/> / <input type="radio"/>	
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus (with Solax Smart Meter); manual charging times; Limitation by EVU(Integrated terminals / data hub)	
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>	
Communication / Interfaces		LAN + WLAN + 4G (opt.) / 2 x RS485	
Special features		E-phase Wallobox; autom. Phase switching; dyn. Load management	

** Dependent on release and provision date of the manufacturer

Manufacturer

SUNGROW

Clean power for all

Product series		Sungrow EV Charger		
Product name		AC22E-01	IDC30E	IDC180E
Wallbox / Charging station / Charging type (AC / DC)		Wallbox / AC	Wallbox / DC	Charging station / DC
Cable / Socket		Type 2 Cable	CCS Combo-2 plug	2 x CCS Combo-2 connectors
Suitable for	Private	●		
	Semi-public	○	●	●
	In public	● (only MID version)	○	●
Max. charging power (kW)		22 kW	30 kW	180 kW
Mains connection		3-phase 400V / 32A, 50Hz	3-phase 400V / 63A, 50Hz	3-phase 400V / 275A, 50Hz
Protection + access authorization	DC residual 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)	DC fault current detection > 6mA and Residual current circuit breaker type A Required on site
	Dynamic load management	●		
	RFID / App	● / ●	● / ○	● / ●
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus; Dynamic electricity tariffs + fixed charging times (With iHomeManager); Limitation by EVU (Via Modbus + OCCP)	PV surplus; Dynamic electricity tariffs + fixed charging times (Via iHomeManager)	Fixed charging times (With Sungrow system)
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		● / ● / ○	● / ● / ●	● / ○ / ●
Communication / Interfaces		Wi-Fi		Ethernet, 2G, 3G, 4G
Special features		Autom. Switching 1/3-phase charge; compatible with SHRT V11, V112 and SHRT-20. The iHomeManager is required for connection to SH-T.	DC-CharGer, cascable, with optional payment terminal	DC charger, cascadeable, compliant with the law; with optional payment terminal

Manufacturer

Product series		SunESS Power Wallbox
Product name		SWACW11K400DQ
Wallbox / Charging station / Charging type (AC / DC)		Wallbox AC
Cable / Socket		Type 2 cable
Suitable for	Private	<input checked="" type="radio"/>
	Semi-public	<input type="radio"/>
	In public	<input type="radio"/>
Max. charging power (kW)		11 kW
Mains connection		3-phase 400V / 16A, 50Hz
Protection + access authorization	DC residual current switch	DC residual current detection > 6mA, Type A residual current device installed
	Dynamic load management	<input type="radio"/>
	RFID / App	<input checked="" type="radio"/> / <input checked="" type="radio"/>
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		PV surplus + Dynamic electricity tariffs + fixed charging times + limitation by utility (via Sunwoda SunESS home storage system)
Collection of charging data Manufacturer portal - APP / MID meter / calibration law compliant		<input checked="" type="radio"/> / <input type="radio"/> / <input type="radio"/>
Communication / Interfaces		RS485
Special features		Wallbox for home use; only in combination with Sunwoda home storage system

Explanation of
the specifications

Instructions

Product series		Model series of the manufacturer
Product name		Name of the article
Wallbox / charging station / charging type (AC / DC)		Design and charging type of the charger
Cable / Socket		Design of the charging connection
Suitable for	Private	Application for home use
	Half-Public	Application in commercial / company charging park
	Public	Use in public areas with billing
Max. charging power (kW)		Maximum charging capacity
Grid connection		Type of mains connection
Protection + access authorisation	DC residual current device	Integrated DC residual current circuit breaker
	Dynamic load management	Monitoring of the maximum power consumption at the grid connection point
	RFID / App	Access authorization with RFID
SMART Charging Features (PV surplus (own system), dynamic electricity rates, limited by EnWG 14a, requirements for public charging points EN ISO 15118-2:2016)		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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