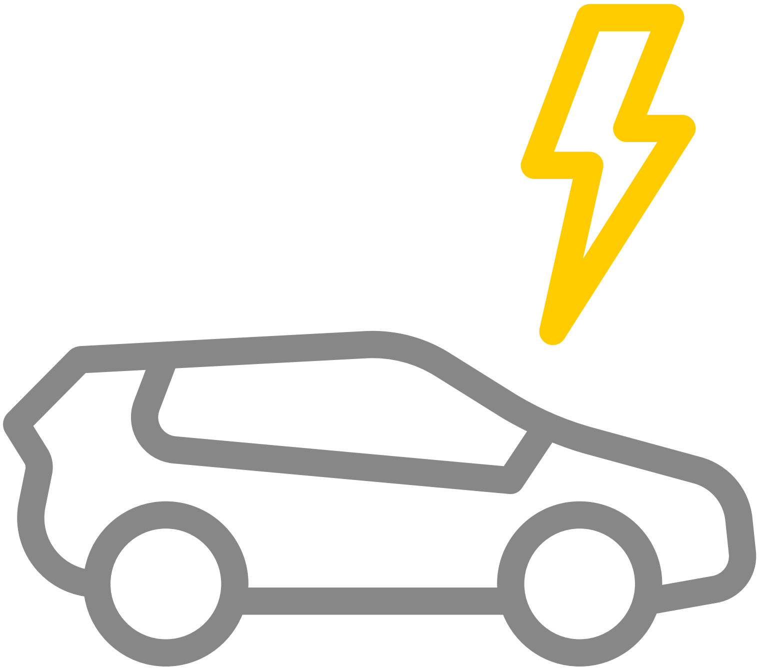
OVERVIEW

EMOBILITY PV CHARGING SOLUTIONS



PV CHARGING SOLUTIONS
RESIDENTIAL
COMMERCIAL

Manufacturer		AXITEC	BRC SOLAR
Product series		AXIbox	Opticharge
Product name		AXIbox 11K	Opticharge 11
Wallbox / Charging station		wallbox	wallbox
Cable / Socket		Type 2 cable	Type 2 cable
Suitable for	**Private**	●	●
	Half-Public	○	○
	Public	○	○
Max. Charging power (kW)		11 kW	11 kW
Grid connection		3-phase 400V / 16A, 50Hz	3-phase 400V / 16A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual current detection > 6mA (on-site Type A residual current circuit breaker required)	DC residual current detection > 6mA (on-site Type A residual current circuit breaker required)
	RFID	●	●
	Key switch	○	○
	Intelligent energy management (connection to PV)	○	○
Dynamic load management		○	○
Calibration law compliant / Accounting system		○ / ○	○ / ○
Features		Wifi connection, App	LAN / Wifi, App

Manufacturer		easee		Fronius		
Product series		EV Charger		Wattpilot		
Product name		Home	Charge	Wattpilot Go 11 J	Wattpilot Go 22 J	Wattpilot Home 11 J
Wallbox / Charging station		wallbox		wallbox	wallbox	wallbox
Cable / Socket		Type 2 socket		Type 2 socket		
Suitable for	**Private**	●	●	●	●	●
	Half-Public	○	●	○	○	○
	Public	○	○	○	○	○
Max. Charging power (kW)		22 kW		11 kW	22 kW	11 kW
Grid connection		3-phase 400V / 32A, 50Hz		1-phase 230V / 3-phase 400V, 50 Hz (via Adapter)		1-phase 230V / 3-phase 400V, 50 Hz (fixed connection)
Special features / accessories	**DC residual current detection (RCD)**	integrated residual current circuit breaker Type A and DC residual current detection > 6mA		integrated residual current circuit breaker Type A and DC residual current detection > 6mA		
	RFID	●		●		
	Key switch	○		○		
	Intelligent energy management (connection to PV)	● with Easee Equalizer or Solar Manager and compatible Smart Meter		● with Fronius		
Dynamic load management		● with Easee Equalizer		○		
Calibration law compliant / Accounting system		○ / ○		○ / ○		
Features		autom. 1-/3-phase charge; Wifi with eSim, App		mobile solution with variable power plug and APP connection, switching 1/3-phase charging		close networking with storage system, switching 1/3-phase charging, stand-alone APP, Eco / Next-Trip mode

Manufacturer		HARDY BARTH emobilität			
Product series		cPμ2	cPH2		
Product name		cPμ2 - Pro	cPH2 - 1T11	cPH2 - 1T22	cPH2 - 2T22
Wallbox / Charging station		wallbox	wallbox		
Cable / Socket		Type 2 cable	both possible		
Suitable for	**Private**	●	●	●	●
	Half-Public	○	○	●	●
	Public	○	○	○	○
Max. Charging power (kW)		11 kW	11 kW	22 kW	22 kW; 11 kW / 11 kW
Grid connection		3-phase 400V / 16A, 50Hz	3-phase 230V / 16A, 50Hz	3-phase 400V / 32A, 50Hz	3-phase 400V / 32A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual current detection > 6mA (on-site residual current circuit breaker Type A required)	DC residual current detection > 6mA (residual current circuit breaker Type A required on site)		
	RFID	○	optional		
	Key switch	○	optional		
	Intelligent energy management (connection to PV)	● with Smart Meter eCB1-PV (directly compatible with Fronius, SMA & Kostal)			
Dynamic load management		● with eCB1, (measuring point +) at the grid connection			
Calibration law compliant / Accounting system		○ / ○			
Features		flexible application options thanks to own metering and load management			

Manufacturer		HARDY BARTH emobilität		
Product series		cPP1		
Product name		cPP1 – 2T22	cPP1 – 2T44	cPP1 – 4T44
Wallbox / Charging station		charging station		
Cable / Socket		Type 2 socket		
Suitable for	**Private**	○	○	○
	Half-Public	●	●	●
	Public	●	●	●
Max. Charging power (kW)		2 x 11 kW / 1 x 22 kW	2 x 22 kW	4 x 11 kW / 2 x 22 kW
Grid connection		3-phase 400V / 32A, 50Hz	3-phase 400V / 63A, 50Hz	3-phase 400V / 63A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual current detection > 6mA, residual current circuit breaker Type A installed		
	RFID	●		
	Key switch	optional		
	Intelligent energy management (connection to PV)	● with Smart Meter eCB1-PV (directly compatible with Fronius, SMA & Kostal)		
Dynamic load management		● with eCB1, (measuring point +) at the grid connection		
Calibration law compliant / Accounting system		○ / ○		
Features		flexible application options thanks to own metering and load management		

Manufacturer		HUAWEI	KOSTAL Solar Electric
Product series		Huawei FusionCharge	Enector
Product name		FusionCharge AC	Enector AC Wallbox
Wallbox / Charging station		wallbox	wallbox
Cable / Socket		Type 2 socket	Type 2 cable
Suitable for	**Private**	●	●
	Half-Public	○	○
	Public	○	○
Max. Charging power (kW)		7 / 22 kw	3.7 kW (1-phase); 11 kW (3-phase)
Grid connection		1-phase 230V / 32A, 50Hz, 3-phase 400V / 32A, 50Hz	1-phase 230V / 16A, 50Hz, 3-phase 400V / 16A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual current detection > 6mA (on-site Type A residual current circuit breaker required)	DC residual current detection > 6mA, residual current circuit breaker Type A installed
	RFID	●	○
	Key switch	○	○
	Intelligent energy management (connection to PV)	● with Huawei	● with Kostal KSEM (not KEM) and activation code (order separately)
Dynamic load management		○	○
Calibration law compliant / Accounting system		○ / ○	○ / ○
Features		Wifi connection, Ethernet, App. automatic phase switching	monitoring in the Kostal portal, 7.5 m charging cable

Manufacturer		MENNEKES®		
Product series		Amtron		
Product name		Professional	Professional +	Professional + PnC
Wallbox / Charging station		wallbox		
Cable / Socket		both possible		
Suitable for	**Private**	●	●	●
	Half-Public	●	●	●
	Public	○	○	○
Max. Charging power (kW)		22 kW		
Grid connection		3-phase 400V / 32A, 50Hz		
Special features / accessories	**DC residual current detection (RCD)**	integrated residual current circuit breaker Type A and DC residual current detection > 6mA (all-current sensitive)		
	RFID	●		
	Key switch	○		
	Intelligent energy management (connection to PV)	software update to EEBUS from 2021	○	○
Dynamic load management		● with additional measuring point		
Calibration law compliant / Accounting system		● / ○		
Features		can be networked with up to 100 units; phase-accurate current measurement	integrated 3G / 4G modem; networkable with up to 100 units; phase-accurate current measurement	integrated 3G / 4G modem; communication according to ISO 15118 incl. Plug and Charge (PnC); networkable with up to 100 units; phase-accurate current measurement

Manufacturer		MENNEKES®			
Product series		Amedio			
Product name		Professional	Professional +	Professional PnC	Professional + PnC
Wallbox / Charging station		Charging station			
Cable / Socket		Type 2 socket			
Suitable for	**Private**	○	○	○	○
	Half-Public	●	●	●	●
	Public	●	●	●	●
Max. Charging power (kW)		2 x 22 kW	2 x 22 kW	2 x 22 kW	2 x 22 kW
Grid connection		3-phase 400V / 63A, 50Hz			
Special features / accessories	**DC residual current detection (RCD)**	2x integrated residual current circuit breaker Type A and DC residual current detection > 6mA; integrated surge protection Type 2; optional Type 1 + 2 available			
	RFID	●			
	Key switch	○			
	Intelligent energy management (connection to PV)	○			
Dynamic load management		● with additional measuring point			
Calibration law compliant / Accounting system		● / ●			
Features		can be networked with up to 100 units; phase-accurate current measurement	integrated 3G / 4G modem; can be networked with up to 100 units; phase-accurate current measurement	communication according to ISO 15118 incl. Plug and Charge (PnC); can be networked with up to 100 units; phase-accurate current measurement	integrated 3G / 4G modem; communication according to ISO 15118 incl. Plug and Charge (PnC); can be networked with up to 100 units; phase-accurate current measurement

Manufacturer		SMA		
Product series		SMA EV Charger		
Product name		SMA EV Charger 7,4	SMA EV Charger 22	SMA EV Charger Business
Wallbox / Charging station		wallbox		
Cable / Socket		Type 2 cable		2 x Type socket / Type cable
Suitable for	**Private**	●	●	●
	Half-Public	○	○	●
	Public	○	○	○
Max. Charging power (kW)		7.4 kW	22 kW	2 x 22 kW
Grid connection		1-phase 230V / 32A, 50Hz	3-phase 400V / 32A, 50Hz	3-phase 400V / 64A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual current detection > 6mA (residual current circuit breaker Type A required on site)		
	RFID	○		●
	Key switch	○		○
	Intelligent energy management (connection to PV)	● with SMA		
Dynamic load management		● with SMA Home Manager		● with SMA Data Manager M
Calibration law compliant / Accounting system		○ / ○		● / ●
Features		Boost function, blackout protection, forecast based loading		

Manufacturer		SOLAX POWER	solaredge
Product series		Smart EV Charger	Home EV Charger
Product name		X3-EVC11K / -22K	SE-EVK22Cxx-01
Wallbox / Charging station		wallbox	wallbox
Cable / Socket		both possible	Type 2 cable
Suitable for	**Private**	●	●
	Half-Public	○	○
	Public	○	○
Max. Charging power (kW)		11 kW / 22 kW	22 kW
Grid connection		3-phase 400V / 16A / 32A, 50Hz	3-phase 400V / 32A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	integrated residual current circuit breaker Type A and DC residual current detection > 6mA	DC residual current detection > 6mA (on-site Type A residual current circuit breaker required)
	RFID	optional	optional
	Key switch	○	○
	Intelligent energy management (connection to PV)	● with Solax Smart Meter	● with SolarEdge
Dynamic load management		● with Solax Smart Meter	○
Calibration law compliant / Accounting system		○ / ○	○ / ○
Features		Wifi connection, App	purely AC-bound wallbox

Manufacturer		SUNGROW Clean power for all
Product series		Sungrow EV Charger
Product name		AC011E-01
Wallbox / Charging station		wallbox
Cable / Socket		Type 2 cable
Suitable for	**Private**	●
	Half-Public	○
	Public	○
Max. Charging power (kW)		11 kW
Grid connection		3-phase 400V / 16A, 50Hz
Special features / accessories	**DC residual current detection (RCD)**	DC residual-current detection > 6mA (on-site Type A residual current circuit breaker required)
	RFID	●
	Key switch	○
	Intelligent energy management (connection to PV)	● with Sungrow
Dynamic load management		○
Calibration law compliant / Accounting system		○ / ○
Features		Wifi connection, App

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