

Comparison of wall-boxes and charging stations 2023

Manufacturer	Model	Application site			Charger connection			AC phase		DC charging	Max. charging power	Ground fault circuit interrupter**	Monitoring	Access control		Electricity meter	PV surplus charging (with accessories only)	OCPP	Networking master / slave	Advantages
		Private	Semi-public ¹	Public ²	Socket (type 2)	Cable (type 2)	Charging points	1	3*					RFID	Key switch					
ABL	eMH1	✓	✓	-	✓	✓	1	-	✓	-	11 kW 22 kW	(except basic)	-	-	✓ (optional)	-	-	-	-	Easy installation, welding detection, integrated temperature monitoring
	eMH2	✓	✓	-	✓	✓	1	-	✓	-	22 kW	✓	✓	✓	-	MID	-	✓	✓	Master/slave networking, employer / employee billing using the MID meter
	eMH3	✓	✓	✓	✓	✓	2	-	✓	-	11 / 22 kW (per charging point)	✓	✓	✓	-	MID	-	✓	✓	Billing compliant with calibration laws, welding detection, temperature monitoring, networking of up to 16 charging points, local load management
E3 DC	easy connect flex	✓	✓	-	✓	-	1	-	✓	-	11 kW 22 kW	-	✓	✓	✓	MID	✓	-	✓	Flexible use with 1- or 3-phase charging cable
	easy connect fix	✓	✓	-	-	✓	1	-	✓	-	11 kW 22 kW	-	✓	✓	✓	MID	✓	-	✓	Fixed 3-phase charging cable
	multi connect	✓	✓	-	✓	-	1	-	✓	-	22 kW	✓	✓	✓	-	Simple electricity meter	✓	-	✓	Automatic phase switching between 1- and 3-phase, ModBUS TCP can ensure the connection of up to 6 additional E3 / DC wallboxes
EVBOX	Elvi	✓	✓	-	-	✓	1	-	✓	-	11 kW 22 kW 11 kW	Must be installed externally	✓	✓	-	- / MID	-	✓	-	Static load management without additional device. Easy installation via app
	Elvi V3.3	✓	✓	-	-	✓	1	-	✓	-	22 kW	-	✓	✓	-	MID	-	✓	-	UMTS modem, incl. SIM card, RFID possible. Easy measurement of charging sessions through MID meter.
EnerCharge	DC-Wallbox	✓	✓	✓	-	✓	1	-	✓	✓	20 / 40 kW	-	✓	✓	-	- / ME	-	✓	-	If desired, the DC wallbox from EnerCharge is available with an ME meter and an integrated payment terminal. The 40 kW variant is capable of bidirectional charging.
Fronius	Wattpilot Go	✓	-	-	✓	-	1	-	✓	-	11 / 22 kW	-	✓	✓	-	Simple electricity meter	✓	-	-	1- / 3-phase alternating charging, charging at varying electricity tariffs, 2 operating modes (ECO and Next Trip Mode) activated via button on the device, comprehensive APP for configuring, visualizing and updating.
	Wattpilot Home	✓	-	-	✓	-	1	-	✓	-	11 / 22 kW	-	✓	✓	-	Simple electricity meter	✓	-	-	1- / 3-phase alternating charging, charging at varying electricity tariffs, 2 operating modes (ECO and Next Trip Mode) activated via button on the device, comprehensive APP for configuring, visualizing and updating.
GOODWE	EV Charger	✓	-	-	✓	✓	1	✓	✓	-	7 / 11 / 22 kW	✓	✓	-	-	-	✓	-	-	GoodWe's EV Charger has smart charging management and can be used with GoodWe inverters for PV surplus charging
HARDY BARTH	cPμ2 - PRO	✓	✓	-	-	✓	1	-	✓	-	11 kW	-	✓	-	-	MID	✓	-	✓ (optional)	Dynamic load management - compatible with Fronius, Kostal and SMA also for PV surplus charging with eCB1 3M40405 (item no. 4176) also possible with other inverters
	cPH2	✓	✓	-	✓	✓	2	-	✓	-	11 kW 22 kW 11 kW (per charging point) 22 kW (per charging point)	-	✓	✓	-	MID	✓	✓ (optional)	✓ (optional)	Compact and simple, eCB1 enables visualization on web interface, PV surplus charging, load management of multiple wallboxes, energy meter and LAN connection.
KEBA	KeContact Green Edition	✓	✓	✓	✓	✓	1	-	✓	-	11 kW 22 kW	-	✓	✓	-	MID / ME	✓	✓	✓	The KeContact P30 offers a variety of equipment options and therefore a solution for every area of application.
KOSTAL	Enector	✓	-	-	-	✓	1	-	✓	-	11 kW	Additional circuit interrupter type A needed	✓	✓	-	-	✓	-	-	Compact, easy installation, visualization and control of the 4 charging modes (Lockmode, Classic 11 kW charging mode, Pure PV surplus charging, Mixed Charging) possible in the KOSTAL Solar Portal in conjunction with KOSTAL Smart Energy Meter and activation code.
MENNEKES	Amtron Compact 2.0s	✓	-	-	-	✓	1	-	✓	-	11 / 22 kW	-	-	✓	-	-	✓	-	-	Easy installation, low standby consumption, dry contact input
	Amtron Charge Control	✓	✓	-	-	✓	1	-	✓	-	11 kW	-	-	✓	-	Simple electricity meter	✓	-	-	SMA Sunny Home Manager 2.0 enables dynamic control via SMA Sunny Portal and PV surplus charging
	Amtron Professional	-	✓	✓	✓	✓	1	-	✓	-	22 kW	✓	✓	✓	-	ME	✓	✓	✓	Suitable for use in semi-public and public areas. Compliant with calibration law according to type examination certificate DE-20-M-PTB-0021
SMA	EV Charger	✓	-	-	-	✓	1	✓	✓	-	7,4 kW 22 kW	-	✓	-	-	MID	✓	-	-	SMA Sunny Home Manager 2.0 offers a boost function, PV overcharging, prediction-based charging and blackout protection, utilization of small solar outputs through automatic phase switching, monitoring via Sunny Portal and SMA Energy App, grid operator interface, SMA Smart Connected
	EV Charger Business	-	✓	✓	✓	✓	2	-	✓	-	2 x 22 kW	✓	✓	✓	-	MID	✓	✓	✓	Dynamic load management up to 250 charging points/ interface for SMA eMobility Portal
SUNGROW	EV Charger	✓	-	-	-	✓	1	-	✓	-	11 kW	Additional circuit interrupter type A needed	✓	✓	-	-	✓	✓	-	PV surplus charging possible, however when no PV power is available, the minimum charging current of 6 A is taken from the grid. Easy mounting, addition to Sungrow system, stand alone installation possible.
solarEdge	SolarEdge Home EV Charger (6900)	✓	✓	-	-	✓	1	-	✓	-	22 kW	✓	✓	-	✓	- / MID	✓	✓	-	Charging solution that integrates with the entire SolarEdge ecosystem. Up to 22 kW charging power
wallbox	Pulsar Plus/Max	✓	✓	-	-	✓	1	✓	✓	-	22 kW	Additional circuit interrupter type A needed	✓	✓	-	Simple electricity meter / MID	✓	✓	✓	Compact, dynamic load management with Powermeter
	Copper SB	✓	✓	-	✓	-	1	✓	✓	-	22 kW	Additional circuit interrupter type A needed	✓	✓	-	Simple electricity meter / MID	✓	✓	✓	Charging cable can also be connected permanently, wheelchair-friendly base available, dynamic load management
	Commander 2	✓	✓	-	-	✓	1	✓	✓	-	22 kW	Additional circuit interrupter type A needed	✓	✓	-	Simple electricity meter / MID	✓	✓	✓	Operation possible via touch screen, management via myWallbox business plan, dynamic load management

Charging column	Manufacturer	Model	Application site			Charger connection			AC phase		DC charging	Max. charging power	Ground fault circuit interrupter**	Monitoring	Access control		Electricity meter	PV surplus charging (with accessories only)	OCPP	Networking master / slave	Advantages
			Private	Semi-public ¹	Public ²	Socket (type 2)	Cable (type 2)	Charging points	1	3*					RFID	Key switch					
Charging column	EnerCharge	DC fast charging station	-	✓	✓	-	✓	2	-	✓	✓	120 / 160 / 320 kW	-	✓	✓	-	- / ME	-	✓	-	If desired, EnerCharge DC fast charging stations are available with ME meters and payment terminals already integrated.
	HARDY BARTH	cPP1 (charging stations)	-	✓	-	✓	✓	2	-	✓	-	22 kW (per charging point) 11 kW (per charging point)	✓	✓	✓	-	MID	✓	✓ (optional)	✓	RFID access control incl. 5 cards, integrated MID energy meter, PV surplus charging, load management of several charging stations and 4 LAN connections.
			✓	✓	-	✓	✓	4	-	✓	-	22 kW (per charging point)	✓	✓	✓	-	ME	-	✓	✓	Plug and charge feature - ISO 15118, can bill in compliance with calibration regulations, release function in case of power failure, up to 50 charging points to backend via SIM card, load management for up to 100 charging points
	MENNEKES	Amedio Professional	-	✓	✓	✓	✓	2	-	✓	-	22 kW (per charging point)	✓	✓	✓	-	ME	-	✓	✓	Plug and charge feature - ISO 15118, can bill in compliance with calibration regulations, release function in case of power failure, up to 50 charging points to backend via SIM card, load management for up to 100 charging points

* Single-phase charging possible - lower maximum charging power (depending on the charging power of the car and/ or the charging cable).
 ** If no ground fault circuit interrupter is installed, at least a type A ground fault circuit interrupter must be additionally installed! (DC fault current detection is already installed in all wallboxes).
 *** PV surplus charging is possible with external accessories.
¹ Semi-public space: charging stations that are only accessible to certain user groups (e.g. company parking lot, hotel parking lot, shared parking lot of apartment buildings)
² Public space: billing in compliance with calibration law.

