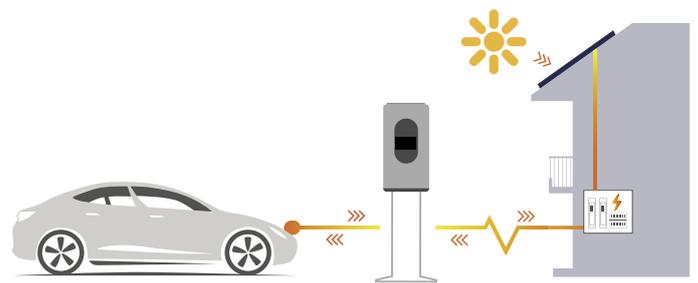




two-way-10

Higher efficiency in energy use

With two-way-10, the electric car can be used as a supply battery. In combination with a photovoltaic system, for example, it is also possible to supply power during the evening and at night. In addition, this power reserve can also be used to cap local peak loads, which relieves the grid connection and saves energy supply costs.



Quick and easy installation

two-way-10 can be installed easily and cost-effectively. No elaborate electrical infrastructure is required. A standard 16A, 400V AC connection is sufficient for the basic model. The fast charger can be mounted on the opi2020 open-source foundation or on a wall mounting plate.

- Local storage utilisation
- Load peak prevention
- CCS and CHAdeMO
- Controllable via OCPP



Easy entry into load management

two-way-10 offers an optimal solution for the integration of storage units into the local renewable energy generation. With the 10kW DC charging station, the electric car can be easily connected to the house or business premises via a CEE plug. The battery capacity that can then be used makes it possible to avoid local load peaks and increase the self-consumption rate.



Simple bidirectional charging

The two-way-10 charging station is an integrated part of the intelligent sun2wheel product family. Thanks to the bidirectional configuration, a compatible electric vehicle can thus be integrated into the local energy supply as storage. As the first provider worldwide, sun2wheel offers a CHAdeMO version as well as a CCS version! two-way-10 complies with the highest safety and quality standards and is developed and built in Switzerland.

Intelligent integration

The charging station supports the open-source communication standard OCPP in order to among others manage access, billing and operating status in real time. two-way-10 can be integrated into sun2wheel's local load management system V2X-controller and can thus supply or purchase power according to demand.



V2X-controller



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Technical Specifications			
Input AC	Grid connection	AC 3 - phase + N + PE	
	Input voltage range	400V _{AC} +/- 10%	
	Nominal input current	3 x 16A _{AC}	
	Input frequency	50Hz	
DC output	DC plug	Plug 1 CSS IEC 62196-3	
		Plug 2 CHAdeMO JEVS G105	
	Maximum DC output power	10kW	
	DC output voltage range	170 - 500V _{DC}	
	Maximum DC output current	28A _{DC}	
	Power factor (> 50% load)	> 0.99	
	Efficiency	98% at full load	
	Safety	- Short circuit protection	- Low-voltage protection
		- Overcurr. circuit breaker	- Isolation monitoring
		- Overvoltage protection	- Earth monitoring
General	Operating temperature	-20°C to +45°C	
	Storage temperature	-40°C to +85°C	
	Relative humidity	5% to 95% (without condensation)	
	Protection	IP 54 (indoor / outdoor use)	
	Dimensions (H x W x D)	820 x 550 x 280 mm	
	Mass	38kg	
	Electrical safety (xFC1)	IEC 61851-1, IEC 62479	
Standards	EMC	EN 61000-6-1, -2, -3, 4, EN 61000-3-2	
	CHAdeMO	Rev. 0.9.1 (certified), Rev. 1.2 (compatible)	
	CCS	DIN 70121, ISO 15118	
			

The sun2wheel product family

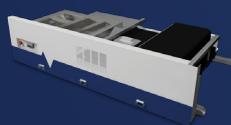
combines solar energy, electromobility and the electricity grid

The complete system for the intelligent use of vehicle batteries as energy storage - resource-saving and incrementally expandable; Swiss cutting-edge technology for sustainability!



V2X-controller

All charging stations and rechargeable batteries are managed in a superordinate and intelligent way. The system can be expanded incrementally. The sun2wheel app makes the various functions controllable and tangible.



accu, accu-rack & accu-container

The accu second use battery system (can also be ordered brand new) can be used as a single battery as well as a rack and container system. Capacity of 24-620 kWh



two-way-10

With the bidirectional 10 kW DC charger you can easily supply your home or business with electricity from your electric vehicle.



one-way-guest-64

One-way 64 or two-way 32 kW DC, including dynamic load sharing, allow easy and fast charging of all electric cars



one-way-compact-11

This AC premium charger is available in an 11 kW version. Easy installation with CEE plug.