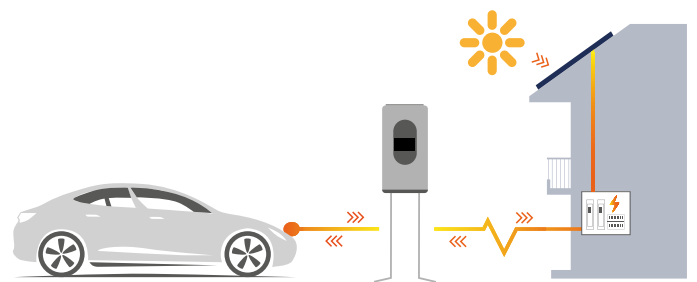




two-way-10

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

CCS
plug



CHAdeMO
plug



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  Plug 2  CSS IEC 62196-3 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 |
| | Operating temperature | -20°C to +45°C |
| | Storage temperature | -40°C to +85°C |
| | Relative humidity | 5% to 95% (without condensation) |
| General | 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

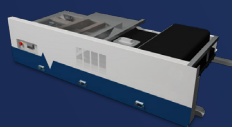
combines solar energy, electromobility and the electricity grid

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.