

affordable V2X solution for electric vehicles

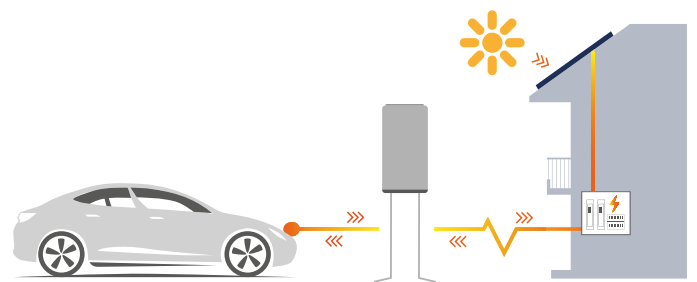


two-way-digital

Your electric car as an energy centre

two-way-digital allows your electric vehicle to be used as a supply battery. In combination with a photovoltaic system, for example, this also enables supply in the evenings 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.

This charging station is particularly suitable for Honda, Nissan and Mitsubishi vehicles. It is available with either a CCS or a CHAdeMO plug.



Quick and easy installation

two-way-digital is easy and cost-effective to install. No complex electrical infrastructure is required. A common 16 A, 400V AC CEE connection is sufficient for the basic model. The bidirectional DC charger can be mounted on the opi2020 open source foundation or on a wall mounting plate.

Local storage use

CCS or CHAdeMO

Certified connection

controllable via OCPP

CCS
plug



CHAdeMO
plug



Easy entry into load management

Our V2X controller offers an optimal solution for integrating storage into local renewable energy generation. With two-way-digital, our bidirectional 10 kW DC charging station, your electric car can be easily connected to your home or commercial premises via a CEE plug. This eliminates the need for additional and expensive electrical installations. The battery capacity that can then be used allows local load peaks to be avoided and the self-consumption rate to be increased.



Operation via our app

Our newly developed app provides all information and allows the user a multi-level and intuitive operation as well as programming of the entire sun2wheel system.

Thanks to monitoring and remote maintenance as well as regular software updates, two-way-digital achieves an outstanding device standard that is normally found only in high-performance charging stations.





V2X-controller

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Simple bidirectional charging

two-way-digital is the latest and most cost-effective development of our proven and popular two-way DC charger family. Thanks to the bidirectional configuration, it is easy to integrate your electric vehicle as a storage device into the local energy generation. two-way-digital complies with the highest safety and quality standards and is developed and built in Switzerland.

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	 CHAdeMO JEVs G105 or  CCS IEC 62196-3
	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 - Overcurr. circuit breaker - Overvoltage protection
		- Low-voltage protection - Isolation monitoring - Earth monitoring
	Operating temperature	-20°C to +45°C
	Storage temperature	-40°C to +85°C
General	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
Standards	Electrical safety (xFC1)	IEC 61851-1, IEC 62479
	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



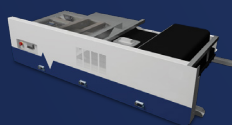
The sun2wheel product family

combines solar energy, electromobility and the electricity grid



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.

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