

W-LOAD technical data

- Range of secondary charging voltage from 12 V to 48 V at 250 Watt power transfer
- Up to 90% efficiency power transfer
- Weight of secondary device about 200 grams (7.0 ounces)
- Housing size on vehicle 90 x 91 x 35 mm (3.5 x 3.5 x 1.8 inch)
- Distance between stationary charging device and mobile device up to 15 mm in all directions (X, Y and Z axis)
- Automatic charging process by integrated data communication with cut off mechanism at fully charged battery
- Visual and acoustic aids to support optimized alignment of the vehicle
- Universal mounting, customized to vehicle and customer needs

Your Partner for W-LOAD

- **W-LOAD** is developed and supported by MESA Systemtechnik
- MESA Systemtechnik has over 20 years of experience with contactless energy and data transmission systems
- **W-LOAD** is engineered and made in Germany, thus fulfills highest quality standards

For any questions we are at your disposal

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W-LOAD

(Wireless Load)

simple
safe
universal

**Contactless charging technology
for light electric vehicles LEV**

sponsored by



Bundesministerium
für Wirtschaft
und Energie



based on a resolution of the
German Federal Parliament



W-LOAD - what is it about?

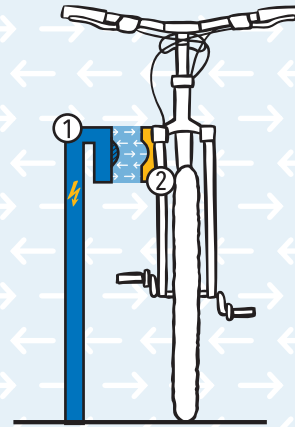
W-LOAD is a new product for convenient and safe charging of batteries in e-bikes, pedelecs and other light electric vehicles such as e-scooters, power-wheelchairs and golf trolleys. The energy and data transmission is made by inductive means.

The system is constructed in a weather and corrosion-resistant housings. Pronged plugs and open contacts are not used. W-LOAD is initially being offered for original equipment manufacturers. At a later stage a retrofit kit for existing vehicles will be offered.

W-LOAD is advantageous for rental stations, municipal infrastructure or any station which is equipped with e-bikes. Integrated into the storage rack system you can eliminate the cable based connectors or the complicated exchange of batteries. A fully automated rental systems is possible!

Additional application include public charging stations, for example; garages, office parks, hotels, restaurants, in front of shops, railway stations or municipal buildings. Users can leave their vehicles charging by parking at a W-LOAD charging facility. W-LOAD facilitates the expanded use of electric vehicles for daily transport.

- ① charging station
- ② mobile device



W-LOAD is a universal solution for charging of light electric vehicles and thus offers the possibility to increase the density of charging stations for these vehicles crucial. It thus contributes to sustainable electric mobility.

The benefits at a glance

- **W-LOAD** is a universal solution for contactless charging of light electric vehicles
- Charging via **W-LOAD** is convenient, weather-proof and safe, the connection by cable and connectors is eliminated
- The integrated data transmission ensures optimum charging capabilities and extends service life of batteries
- **W-LOAD** is easy to integrate into parking garages, parking boxes and bike racks
- Power supply pack can be left at home

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