

i²charging system



eMOBILE

The popularity and proliferation of electric vehicles is constantly increasing, though acceptance is often hampered by the lack of charging infrastructure. To counter this problem, electric vehicles are generally equipped with a charging cable for a 230V socket. Charging at a standard household socket is, however, limited by longer charging times and, in the worst case, can result in overheating. With the Bals i² charging socket, you achieve a significant reduction in the charging time with a very high level of safety.

The i² charging system is equipped with a temperature monitor and, thanks to its authorisation function, can be used as a charging socket for your car or as a connection for other household devices. Taking into account the installation guideline, operation with a continuous charging current of 16A (3.7kW) is possible with the Bals i² system, unlike a standard household socket. Clear identification and compatibility between i² charging plug and i² charging socket and their performance parameters is ensured.

The i² system

- Shortening of the charging time through continuous charging with 16A 230V (3.7kW)
- Identification of the loads also allows for the operation of commonly used electrical devices
- Very high level of safety and quality
- Tamper-proof through integrated auxiliary contacts with coding function
- Suitable for cable cross sections of up to 2.5mm²
- Silver plated contacts

Functions of the i² charging socket

- Available with protection degrees IP44 and IP66
- Can be locked in the plugged-in state (version IP44)
- With protection against contact (child protection)
- With NO or NC auxiliary switch for signal transfer
- Type E and F earthing system
- Spring travel restraint prevents contact deformation
- With authorisation contacts

Functions of the i² charging plug

- Protection degree IP 44
- Integrated temperature sensor
- Can withstand being driven over
- Suitable for Type E or Type F earthing system
- With authorisation contacts



The IP44 version can be locked with the plug plugged in.



The charging socket with authorisation contacts in detail.