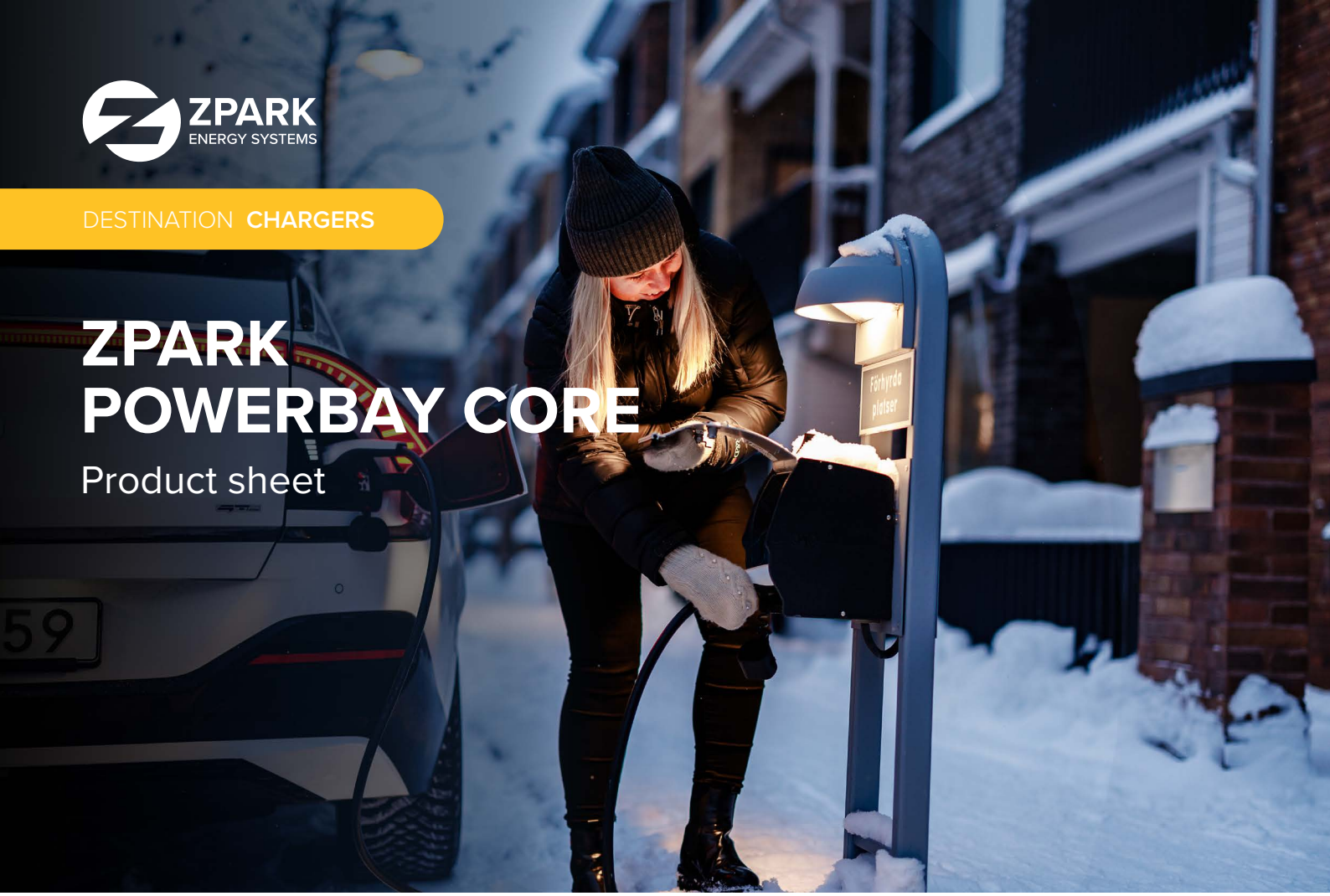
ZPARK
ENERGY SYSTEMS

DESTINATION **CHARGERS**



ZPARK POWERBAY CORE

Product sheet

Future-proof your investment and accelerate your opportunities in charging infrastructure.

With the PowerBay Core, you avoid the hassle of having to choose specific locations for electric vehicle charging for your parking space. PowerBay Core offers both electric vehicle charging sockets and conventional engine heater sockets in the same unit.

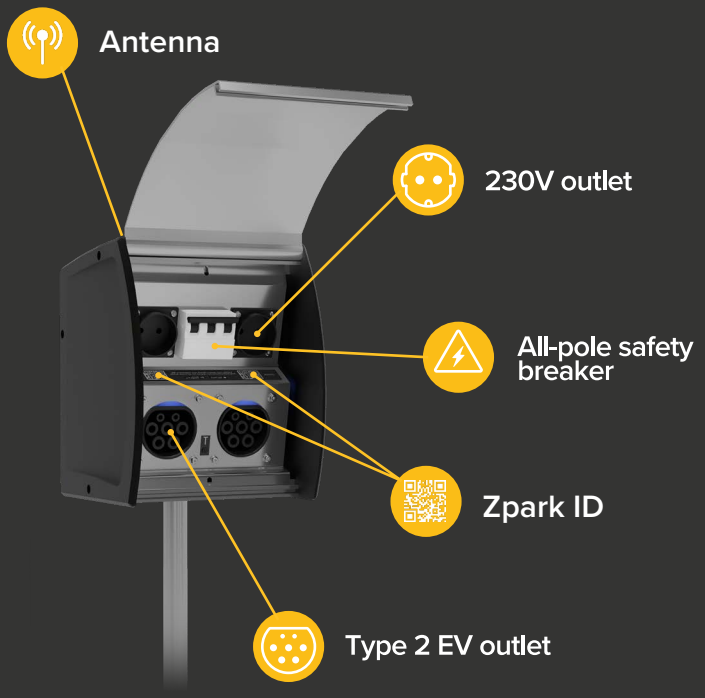
The PowerBay Core is designed to fit a classic engine heater hood, allowing for a smooth conversion of already installed engine heater poles. No new cabling is required, and our load balancer ensures that the fuses are sufficient. Both sockets are easily controlled via our app, where it is also possible to monitor individual consumption.

Pricing for end-users is easily managed in our administrator portal with our payment solution. The two most common versions of PowerBay Core are GARO and ABB, but the electronics work in most enclosures.

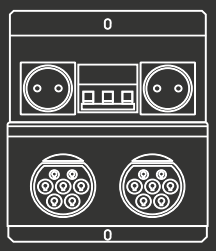
All our products have extended protection for the Schuko socket, where the voltage is cut off when the system detects that the engine heater cable has been unplugged from the car. This approach is broadly applied for all types of values that users, facility owners, installers, and partners want to realize. Thanks to a seamless integration without hassle, we have successfully demonstrated the scalability of our solution for a wide variety of customers and stakeholders.

ZPARK POWERBAY CORE

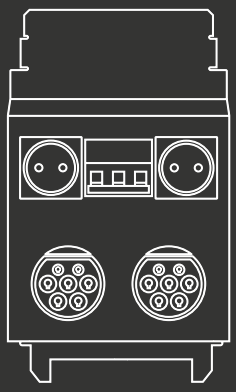
Converted Engine Heater



GARO



ABB



Product specs

Compatibility	Compatible with PN100 and P100 (GARO). Compatible with CW200 (ABB). Possible to integrate in other enclosures.
Facility Circuit	2.5mm^2 to 16mm^2 CU and ALU. Extension possible (max. 80A).
Electric Distribution System	TN-S (five-wire system) or TN-C (four-wire system).
Earth Fault Protection	Built-in AC/DC RCD.
Communication	Ethernet (via Gateway). 4G/5G/LTE.
Charging Detection	6A single-phase (1.4 kW) to 32A three-phase (22kW).
Charging Indicators	With RGB-LED.
Load Balancer - Static & Dynamic	Enables hierarchical load balancing.
Ground Voltage	230V/400V 50 Hz.
Measurement	Built-in energy meter for electricity trading. Individal control and measurement per socket.
OCPI	Achieves v2.2.
OCPP	V1.6j. V2.0 upcoming.
Fuses	Built-in 3 x 32A type B fuses.
Socket Options	2x Type2 (IEC 62196-2). 2x Schuko for engine heating and e-bikes.
Identification	Zpark App.
Temperature Range	-40 °C to + 40 °C.
Protection Class	From IP rating based on enclosure. From IK rating based on enclosure.
Electrical Surge Protection	Type 1+2, IEC 61643-11 (delivered separately). Surge protection category III. CE according to: Protection class II.
Standards and Approvals	IEC 62196-2. IEC 61851-1. IEC 60364-7. Meets Energy Star criteria for energy efficiency, therefore can be used for LEED certification.