

Charging inverter R





Overview

How does a charge-inverter work?

This charge-inverter allows for both the slow charge and rapid charge function, at no cost, while at the same time offering significant reductions in terms of weight and size. In addition, with its unique architecture that incorporates a voltage step-up, the charger-inverter offers a very high output, and increases autonomy by around 10%.

Why should you combine an inverter & battery charger in one enclosure?

Combining an inverter and battery charger in one enclosure enables many sophisticated features, such as PowerAssist and PowerControl, that are perfect for mobile, off-grid, backup and energy storage applications. All our inverter/chargers enable charging with solar & wind priority, ESS ready models enable dynamic ESS and so much more.

What is the difference between a battery charger and an inverter?

The inverter converts direct current (DC) from the battery into the alternating current (AC) required by the electric motor to turn the wheels. The charger performs the same task in reverse: the AC voltage is turned into DC voltage in order to charge the battery in a hybrid plug-in vehicle or an all-electric vehicle.

How do you activate charging mode in an inverter?

The charging mode can be activated by turning ON at least one of the lower switches in the inverter bridge. When this happens, the voltage at the dc-side output becomes zero due to the presence of a short circuit. Moreover, diode (D_1) becomes non-conductive, while diode (D_2) starts conducting.



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