

REVERSIBLE SiC BATTERY CHARGER 12kW



Device of new generation



Reverse power 6kW



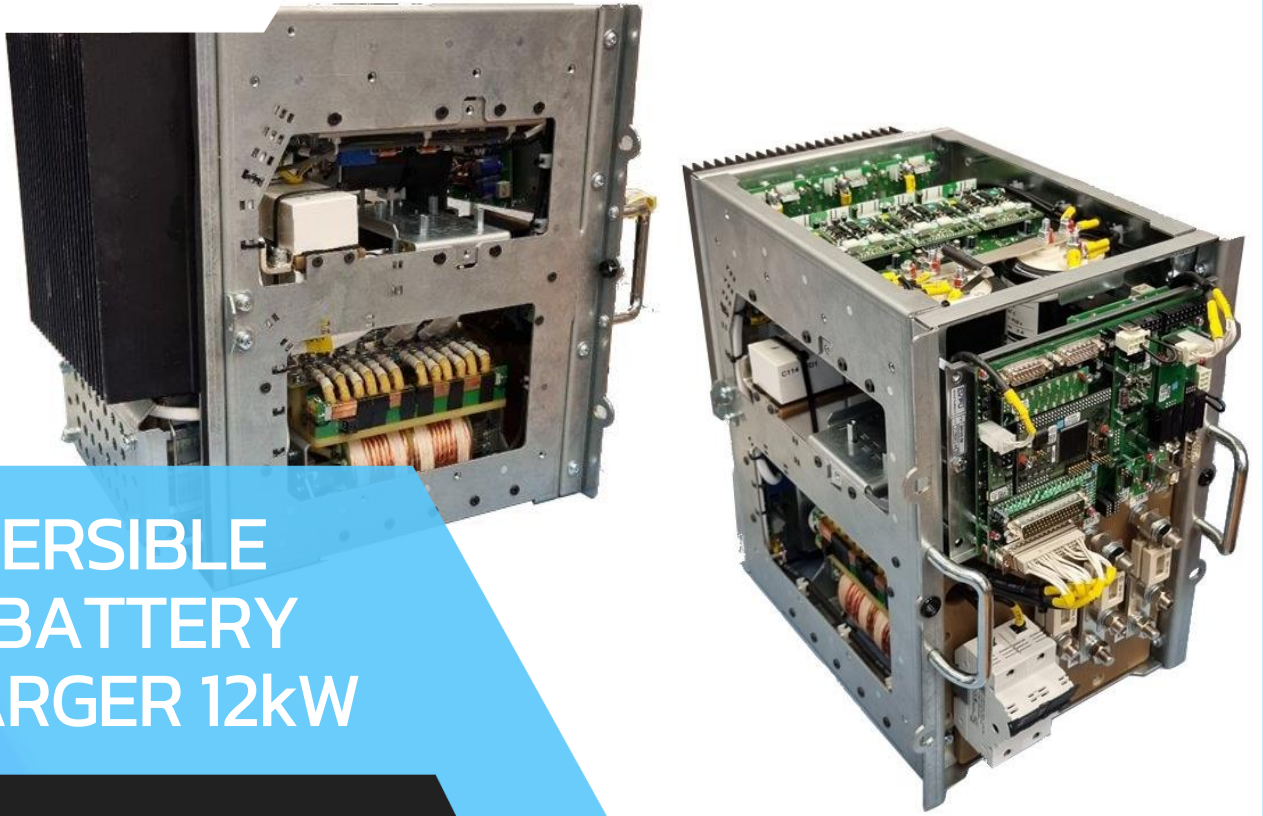
Nominal power 12kW (30V/400A)

Reversible charger converts input voltage 680V DC to low voltage suitable for charging of battery with nominal voltage 24V DC. If reverse mode is required then opposite direction of energy flow will be enabled and charger will convert battery voltage to 680V DC and transfer energy back into intermediate circuit. This is often used for back-up feeding of inverters which provide AC voltage 3x400V for motors which ensure fresh air on coach or for feeding of 230V sockets for laptops.

SiC MOSFETs used in module allows to use high switching frequency and reduce size of sinus filter components as well us to improve efficiency of power conversion.

Technical specification

Nominal input voltage	680V DC (intermediate bus)
Nominal output voltage	24V DC (16,8V-30V)
Nominal output current	400A
Charging current of battery	adjustable (up to 400A)
Nominal power	12kW (30V/400A)
Reverse power	6kW
Charging characteristic	UI ot other - adjustable by SW
Thermal compensation of charg.voltage	yes (external PT100 sensor used)
Voltage drop compensation	yes (remote measuring is used)
Switching frequency of transformer	120kHz
Cooling	forced air
Feeding of control board	24V DC (16,8-30V)



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