

Title (en)

ELECTRICAL POWER SUPPLY SYSTEM COMPRISING A BIDIRECTIONAL CHARGER AND A BATTERY, CAPABLE OF SUPPLYING AN EXTERNAL CHARGE WHILE BEING CONNECTED TO AN ELECTRICAL POWER SUPPLY NETWORK AND METHOD FOR CONTROLLING SUCH A SYSTEM

Title (de)

STROMVERSORGUNGSSYSTEM MIT BIDIREKTIONALEM LADEGERÄT UND BATTERIE MIT EXTERNER LADUNG AN EIN STROMVERSORGUNGSNETZWERK UND VERFAHREN ZUR STEUERUNG

Title (fr)

SYSTÈME D'ALIMENTATION ÉLECTRIQUE COMPRENANT UN CHARGEUR BIDIRECTIONNEL ET UNE BATTERIE, CAPABLE D'ALIMENTER UNE CHARGE EXTERNE TOUT EN ÉTANT CONNECTÉ À UN RÉSEAU D'ALIMENTATION ÉLECTRIQUE ET PROCÉDÉ DE COMMANDE D'UN TEL SYSTÈME

Publication

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Application

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Abstract (en)

[origin: WO2022200144A1] The invention relates to an electrical power supply system comprising a bidirectional charger (3) connected to a battery (2), an electrical power outlet (6) configured to allow a charge to be supplied, and a fast switching device (5), configured to be able to be connected to an electrical power network. The system comprises a first current sensor (8a) between the bidirectional charger (3) and the fast switching device (5), a second current sensor (8b) between the electrical power outlet (6) and the bidirectional charger (3), a voltage sensor (8c) at the outlet of the fast switching device (5) and a sensor (8d) for sensing the state of charge of the battery, and a control means (7) connected to the sensors (8a, 8b, 8c, 8d), to the bidirectional charger (3), and to the fast switching device (5), which control means is configured to control the bidirectional charger and the fast-switching device based on the measurements from the sensors and on the state of charge of the battery.

IPC 8 full level

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