

ABSTRACT**Power supply method for a railway vehicle, related in-station supply system,
onboard energy storage system, and related railway vehicle**

The invention relates to a power supply method for a railway vehicle (1) including an onboard energy storage system (7), characterized in that:

- a stationary static energy converter (11), located at a stop station (10) of the vehicle, receives the electric energy;
- the railway vehicle being stopped at the station, a transfer of energy to the onboard energy storage system (7) is done by the stationary static converter (11) from said received electrical energy, said stationary static converter adapting the voltage (V3) supplied to the onboard energy storage system as a function of the status of the charge of said onboard energy storage system;
- the onboard energy storage system (7) is charged as a function of the energy transferred under the voltage (V3) adapted by the stationary static converter.

Figure 1