

Abstract

A mobile device for converting solar energy into electricity in a portable or transportable version consisting of interconnected photovoltaic cells module (1) and energy storage module (2) characterised in that the photovoltaic cell module (1) consists of a set of flexible photovoltaic panels with a certain power output together with a set of cables to connect the panels to the energy storage module, whereas the cells are placed on a foldable frame and the energy storage module (2) comprises a set of batteries placed in a portable housing with a size typical of the size of a laptop and is equipped with an electronic circuit with a display, which is used to carry out and check the charging and discharging processes, whereas before the above elements are assembled, the set of flexible photovoltaic panels together with the set of cables to connect the panels to the energy storage module is located in the first tube case, whereas the foldable frame, together with accessories for the deployment and fixing of the set of photovoltaic panels on the frame and/or in another accessible location and/or on a vehicle, is located in the second tube case.