

ABSTRACT**SIMPLE AND MODULAR ASSEMBLY OF BATTERY CELLS USING PRINTED
CIRCUIT BOARDS**

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The present invention relates to a rechargeable battery pack (10) comprising a plurality of battery cells (1), a mechanical support structure (3A, 3B) for the battery cells (1), at least one printed circuit board (2) for the electrical interconnection of the battery cells (1) arranged on said upper or said lower surface, or both, means of electrical interconnection, (4, 4', 5) by contact and without welding between the battery cells (1) and the printed circuit boards (2), characterized in that the mechanical structure comprises a lower plate (3A) and an upper plate (3B), both provided with housings (20) in corresponding alignment intended to accommodate and locate without gluing respectively a first end of the battery cells (1) and a second end of the battery cells (1) and in that the printed circuit boards (2) are standardized, so that the number of battery cells (1) and printed circuit boards (2) can be quickly adapted to make the capacity and total voltage of the battery pack (10) scalable or extensible.

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(Figure 4)