

ABSTRACT

**LIGHTWEIGHT AND FLEXIBLE PHOTOVOLTAIC MODULE COMPRISING A FRONT LAYER
CONSISTING OF A POLYMER AND A REAR LAYER CONSISTING OF A COMPOSITE
MATERIAL**

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The invention relates to a lightweight photovoltaic module (1) comprising: a transparent first layer (2) forming the front face, photovoltaic cells (4), an assembly (3) encapsulating the photovoltaic cells (4), and a second layer (5), the encapsulating assembly (3) and the photovoltaic cells (4) being arranged between the first (2) and the second (5) layer. The invention is characterised in that the first layer (2) comprises a polymer material and has a thickness (e2) of less than 50 μm , in that the second layer (5) comprises at least one composite material of the prepreg type containing polymer resin and fibres and has a areal weight of less than 150 g/m^2 , and in that the encapsulating assembly (3) has a maximum thickness (e3) of less than 150 μm .

Figure 3