

The invention refers to the unconventional power sources, namely, to the solar power transformers. The solar cell includes a Si monocrystal having on its exterior surfaces a potential barrier of MOS or Schottky type, as well as ohmic contacts applied on its exterior and back surfaces. On the monocrystal exterior and back surfaces there are formed a porous nanometric structure, and the potential barrier volume charge field includes a porous nanometric structure.