

Solar power system comprises a frame with bifacial photovoltaic solar panels and a radiation reflector. The frame has a shape of a triangular semi-pyramid, on transparent faces of which the bifacial photovoltaic solar panels are fixed at an angle of optimal orientation to the sun. Wherein a parabolic radiation reflector with a mirror surface is placed at the base of the frame and fixed stationarily on a vandal-resistant dust- and moisture-proof box with an expanded trapezoidal base at the bottom and ventilation openings configured for adjustment. Inside the box, there is an inverter with a built-in charge controller and an energy storage system in the form of a block of gel batteries.