

The invention relates to power engineering, namely to photovoltaic installations based on direct conversion of solar energy into electrical energy by means of photovoltaic cells, and to solar technology, in particular to liquid heating devices.

The photovoltaic-thermal panel comprises photovoltaic cells (3) with a transparent surface (2), electrically connected to each other and placed on a plastic sheet (5), under which is installed an oilcloth (6) with a plurality of capillary tubes (7) through which circulates from a cold liquid distributor (8) to a warm liquid collector (9) the coolant, and a thermal insulation (10), these are all placed in a frame (1). The cold liquid distributor (8) and the warm liquid collector (9) are installed on one side of the frame (1) on the thermal insulation (10). The capillary tubes (7) form on the opposite side of the frame (1) loops (11). At the same time, the capillary tubes (7), which run from the cold liquid distributor (8), are placed next to the capillary tubes (7), which lead to the warm liquid collector (9), the tubes (7) are placed parallel and alternately one relative to the others. The inlet (14) of the cold liquid distributor (8) and the outlet (17) of the warm liquid collector (9) are brought outside the thermal insulation layer (10) or frame (1).

Claims: 1

Fig.: 1

