

The invention relates to photovoltaic solar energy conversion installations, namely to photovoltaic self-orientating installations in the meridional and azimuthal planes.

The photovoltaic panel orientation installations comprise a tower (1) with vertical holes (2) with sunbeam concentration elements (3) and with a cover (27). In the tower (1) is installed a support axle (24), on which is hinged at least one photovoltaic panel (25), equipped with a rotation mechanism behind the sun, which consists of a corrugated tube (4) and a mechanism for photovoltaic panel reset (25) to its initial position. The corrugated tube (4) is rigidly connected to an axle (6), which communicates with a rotating cylinder (13), rigidly connected to the support axle (24) of the photovoltaic panel (25), which is pivotally connected by means of a rod (26) to the cover (27) of the tower (1). According to the first embodiment of the installation, the support axle (24) is connected to a bushing, by means of a one-way clutch, communicates with a one-way rotating bushing, connected to a nut-shaped bushing, which, in turn, is connected to the cover (27) of the tower (1) and through the rod (26) with the photovoltaic panel (25). According to the second embodiment of the installation, the panel (25) is pivotally connected to the cover (27) of the tower (1) by means of the rod (26) and by means of a spherical connection, formed from a crust with a spherical element, made with the possibility of sliding in a channel, which is made in the flange of the cover (27).

Claims: 2

Fig.: 13

