

The present invention relates to electrical engineering, namely to direct current-to-alternating current inverters for renewable energy sources, namely for photovoltaic panels.

The microinverter for photovoltaic panels includes a filtering capacitor (2), two frequency capacitors (3, 4), connected in series between them, and two electronic switches (5 and 6), connected in series between them, all connected in parallel to the outputs of the photovoltaic panel (1). Between the connection node of capacitors (3 and 4) and the connection node of electronic switches (5 and 6) is connected a primary coil (7) of a high-frequency transformer (8), the ferromagnetic core of which is made with a gap. To the outputs of the secondary coil (9) of the transformer (8) is connected an inductance (10). The microinverter also includes a filtering capacitor (13), connected parallel to the inductance (10) via two electronic switches (11 and 12), connected in anti-phase. To one terminal of the capacitor (13) is connected a filtering inductance (14), at the same time the free terminal of the capacitor (13) and the free terminal of the inductance (14) form the outputs of the microinverter for connection to the alternating-current network (15).

Claims: 1

Fig.: 2

