

How to reduce the investment cost of a Floating photovoltaic power station?

The construction cost of the floating photovoltaic power station is relatively large compared with that of the ordinary ground photovoltaic power station. Therefore, the selection of cables should be considered to reduce the investment cost of power station construction on the premise of meeting the safety and stability of power station operation.

What are the advantages of Floating photovoltaic systems on water?

Floating photovoltaic systems on water have many advantages. The PV modules are placed on the water surface, because the water body has a good cooling effect on the modules, which can reduce the temperature of the module surface and increase the power generation of the modules.

Are Floating photovoltaic systems a viable alternative to ground-based power plants?

On the other hand, in densely populated and industrially developed areas with higher power demand, the land resources available for the development of ground-based photovoltaic power plants are relatively limited. Therefore, floating photovoltaic systems have gained more interest.

Is copper cable suitable for laying in a floating power station?

The conventional copper cable has a large turning radius, general flexibility and fatigue resistance and is not suitable for laying in a floating power station. The construction cost of the floating photovoltaic power station is relatively large compared with that of the ordinary ground photovoltaic power station.

How a Floating photovoltaic system works?

Based on the floating photovoltaic system, the solar tracking algorithm is adopted to ensure the rotation towards the sun by slowly adjusting the position of the components, thus enhancing the power generation capacity of the system. The application of tracking mechanism in floating photovoltaic system is still in its infancy.

What is a fixed vertical axis disc floating PV?

Hu and Wang proposed a fixed vertical axis disc floating PV for general waters and shallow near-island oceans that can simultaneously adjust the azimuth and inclination angles between solar panels and the sun. The rotation is achieved through a disc motor as the power source and a propeller as auxiliary drive causing drive disc rotation.

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