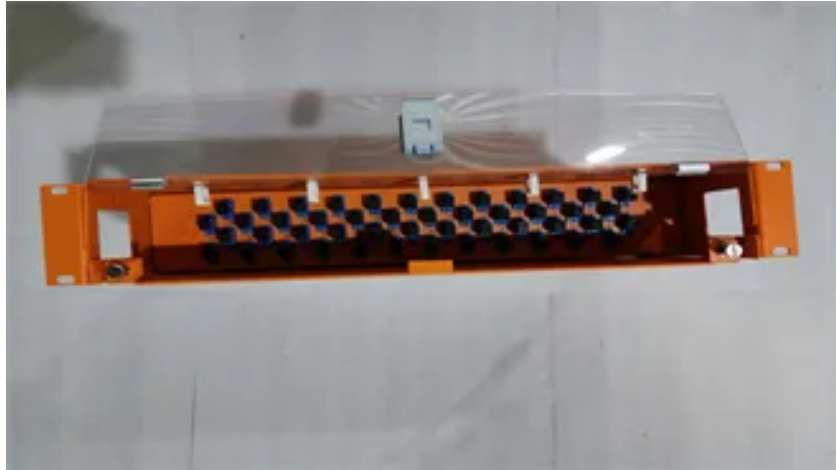


Basic structure of solar power base station



Overview

The solar power plant is also known as the Photovoltaic (PV) power plant. It is a large-scale PV plant designed to produce bulk electrical power from solar radiation. The solar power plant uses solar energy to produce electrical power. Therefore, it is a conventional power plant. Solar energy can be used directly to. The major components of the solar photovoltaic system are listed below. 1. Photovoltaic (PV) panel 2. Inverter 3. Energy storage devices 4. Charge controller 5. System. A solar cell is nothing but a PN junction. The plot of short-circuit current (ISC) and open-circuit voltage (VOC) describes the performance of the solar cell. This plot is shown in the figure. The solar panels are classified into three major types; 1. Monocrystalline Solar Panels 2. Polycrystalline Solar Panels 3. Thin-film Solar. The solar power plant is classified into two types according to the way load is connected. 1. Standalone system 2. Grid-connected system.



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Solar Electric System Design, Operation and Installation

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