

SolarInnovate Energy Solutions

Photovoltaic base station distribution box





Overview

This article will delve into the key points of selecting distribution boxes, distribution cabinets, and junction boxes in photovoltaic power stations.1. for DC High Voltage Systems: Distribution Boxes and Distribution Cabinets Must Match High Voltage Grades In large-scale photovoltaic power stations, the side voltage is commonly increased to 1500V, which poses higher requirements for the insulation performance of distribution boxes and distribution cabinets:Distribution Boxes: DC 100V/1500V dedicated design is required, and internal components must comply with UL 508A or IEC 62930 standards: Need to be equipped with DC disconnectors and anti-reverse current protection devices to avoid current backflow that could damage components.Junction Boxes: Need to support high voltage series connection and have PID (potential-induced degradation) resistance function.2.



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