

Technical Specifications for Wind Power Lightning Protection for solar container communication stations





Overview

What is a wind turbine lightning protection system (LPS)?

Lightning Protection Design Principles The wind turbine LPS consists of three main parts, the external protection system, the internal part, and the earthing system.

What is lightning protection for a wind turbine?

Lightning protection (LP) for a wind turbine consists of an external lightning protection system (LPS) and surge protection measures (SPMs) for protecting electrical and electronic equipment. In order to plan protection measures, it is advisable to subdivide the wind turbine into lightning protection zones (LPZs).

Which components can be integrated in a wind turbine LPS?

Natural components made of conductive materials which are permanently installed in / on a wind turbine and remain unchanged (e.g., lightning protection system of the rotor blades, bearings, mainframes, hybrid tower) may be integrated in the LPS.

What is the standard design of a wind turbine LPS?

The standard design of the wind turbine LPS should include the following: A tower to be utilized as a down conductor, and between its sections, are the earthing jumpers to ensure continuity, and at the bottom of the tower, it is connected to a wind turbine bonding bar.



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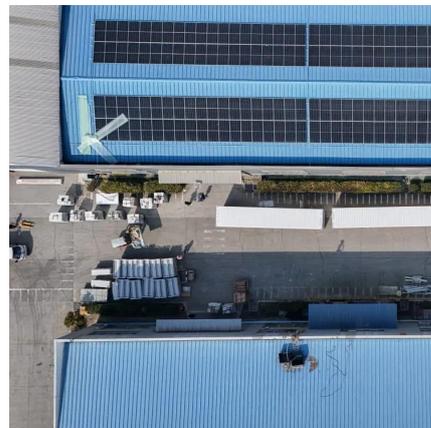
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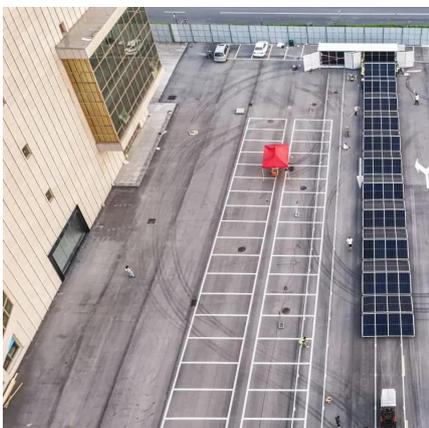
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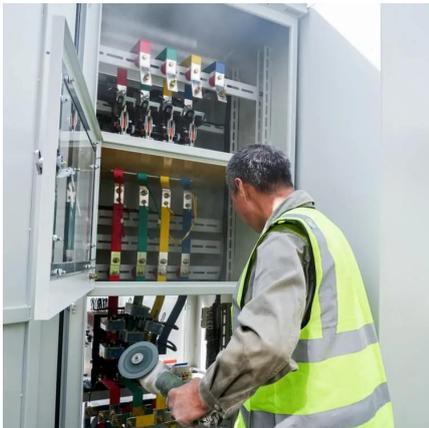
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