

PDEOZE PowerContainer

Guatemala communication base station wind and solar hybrid lightning protection

Support Customized Product



Overview

The utility model provides a 5G mobile communication base station with a lightning protection function, which comprises a communication tower, a receiving and transmitting platform, an antenna, a lightning rod, a lightning protection regulating mechanism and a lightning direction detecting mechanism, wherein the lightning protection regulating mechanism comprises a rotating ring, a rotating motor, a gear and a rack, the receiving and transmitting platform can receive or transmit wireless signals through the antenna to realize wireless signal coverage in the area near the communication tower, the lightning direction detecting mechanism comprises a main control unit and photoelectric sensors, the direction of lightning can be detected through the plurality of arranged photoelectric sensors, and then the main control unit drives the rotating motor to drive the rotating ring to rotate through the gear and the rack, so that the receiving and transmitting platform and the antenna are rotated to the direction far away from the lightning, thereby avoiding lightning from being split onto the receiving and transmitting platform and the antenna by the lightning rod, and ensuring normal transmission of wireless signals.

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Safety innovations including multi-stage protection and thermal management systems have reduced insurance premiums by 25% for solar storage installations. New modular designs ...

The lightning transient behaviours of the large scale wind turbine (WT)-Photovoltaic (PV)-battery energy storage system (BESS) hybrid system is first studied.

Discover the power of our Hybrid Energy Mobile Wireless Station, offering seamless, energy-efficient telecom base site solutions. Designed for versatility with solar, wind, and diesel ...

The wind-solar-diesel hybrid power supply system of the communication base station is composed of a wind turbine, a solar cell module, an integrated controller for hybrid energy

The system is mainly used for the Grid-PV Hybrid solution in telecom base stations and machine rooms, as well as off-grid PV base stations, Wind-PV hybrid power base stations and Diesel ...

Install lightning rods, grounding, surge protectors, shielding, and follow standards for effective communication station protection.

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It is an intelligent hybrid power base station cabinet that integrates the photovoltaic, wind turbine, and battery storage to provide reliable power to remote or off-grid areas with advanced ...

Gallium nitride (GaN) based suppressors now achieve 0.5pF capacitance - a game-changer for high-frequency protection. When combined with graphene oxide coatings (patented by Huijue ...

Safety innovations including multi-stage protection and thermal management systems have reduced insurance premiums by 25% for solar storage installations. New modular designs ...

In view of this, the utility model provides a 5G mobile communication base station with lightning protection function, which can adjust the transceiver station and the antenna to the

The selection of wind-solar hybrid systems for communication base stations is essentially to find the optimal solution among reliability, cost and environmental protection.

It is an intelligent hybrid power base station cabinet that integrates the photovoltaic, wind turbine, and battery storage to provide reliable power to remote or off-grid areas with advanced management and robust IP55 ...

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