

SolarTech Power Solutions

How many points does the Mongolian communication base station power supply



Overview

AC Input: 220/380VAC single phase / three phase
Input Capacity: 1×63A/3P
Input Frequency: 45~65Hz (rated 50Hz/60Hz)
SPD: 20kA/60kA, 8/20μs
Rectifier Module: 50A × 4 (total 200A)
DC Output Voltage: -43V ~ -58V, rated -53.5V
Max DC Capacity: 300A
Battery Breakers: 100A/1P × 4
Low Voltage Disconnect.

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A base station represents an access point for a wireless device to communicate within its coverage area. It usually connects the device to other networks or devices through a dedicated high bandwidth wire of fiber optic connection. Base stations typically have a transceiver, capable of sending and.

In order to better serve the coming 5G era, in addition to the large number of base stations and wide coverage, the base stations must have good stability and must ensure uninterrupted power supply 24 hours a day. As the “blood of the base station” power supply system, once a power outage occurs.

Why does -48V DC power supply become the power supply voltage of communication base station?

Communication base station power supply in the tower room power supply system is an essential and important part of the mobile communication network. The current communication power supply voltage level is.

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When natural disasters cut off power grids, when extreme weather threatens power supply safety, our communication backup power system with intelligent charge/discharge management and military-grade protection becomes the "second lifeline" for base station equipment. 45V output meets RRU equipment. What is Mongolia's power system?

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Why are there different communication networks in Mongolia?

The reason for using these different communication network options is because of the remote locations of substations in Mongolia. In addition, the lack of independent communication networks or infrastructure for the power system controlled by the SCADA system still presents a problem for the Mongolian energy sector.

How much electricity does Mongolia use?

In 2019, the total electricity consumption of Mongolia has reached almost 9 TWh (terawatt-hours). 81% of which was supplied by domestic generation sources and 19% of which was provided by power imports. The Mongolian power grid consists of five systems (Figure 1).

How can the national power grid of Mongolia improve energy management?

The National Power Grid of Mongolia is divided into five regions, and needs to provide efficient Energy Management in real-time in each of the regions. This can be achieved only with on-line data collection and processing.

How to handle large data flows in Mongolia?

To handle the large data flows that will be produced with the adoption of RTU, IED and IT-based SCADA/EMS components for the power system in Mongolia will requires a switchover to advanced telecommunication technology such as an optical fiber communication systems.

Should Mongolia add collection devices to power system analytics?

Adding collection devices will be a strong investment for power system analytics and will improve the prevention techniques to deal with any sudden disturbances in the grid. The National Power Grid of Mongolia is divided into five regions, and needs to provide efficient Energy Management in real-time in each of the regions.

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