

SolarTech Power Solutions

What is the base station outdoor power supply module



Overview

The Soetek Switch Mode Power Supply is a highly integrated outdoor 5G micro base station power supply system, it combines AC input power distribution, lightning protection, switching rectification, battery packs, DC output power distribution, Field Supervision Unit (FSU), and an outdoor chassis.

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5G base stations have transformed network infrastructure by demanding significantly more power than their 4G predecessors. The table below highlights this dramatic increase: Operators now face several challenges: Higher RF power amplifiers and complex physical-layer processing increase energy.

As a result, a variety of state-of-the-art power supplies are required to power 5G base station components. Modern FPGAs and processors are built using advanced nanometer processes because they often perform calculations at fast speeds using low voltages (<0.9 V) at high current from compact.

Power supplies can be employed in each of the three systems that compose wireless base stations. These three systems are known as the environmental monitoring system, the data communication system, and the power supply system. Each of these systems is in turn divided into smaller sections and.

The ESB-series outdoor base station system utilizes solar energy and diesel

engines to achieve uninterrupted off grid power supply. Solar power generation is the use of photovoltaic panels to convert solar energy into electrical energy -48V DC, and then stabilize the load power supply through.

With the widespread deployment of its IDC hardware systems to all over the world, the shipments of computing power and communication centers rank among the top eight in the world.

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