

Hungarian Telecom Site Power Supply System Resistant to High Temperatures



Overview

Features low power consumption and low heat generation, thereby extending system lifespan and reducing cooling costs.

Key Takeaways

Outdoor telecom power systems designed for harsh environments can reliably operate in extreme temperatures up to 60°C, ensuring uninterrupted service for telecom sites. Overview of High-Temperature Resistant Systems

Telecom power supply systems for outdoor and remote sites are engineered to withstand extreme environmental conditions, including scorching heat, freezing cold, heavy rain, and dust. These systems are critical for maintaining continuous operation of base stations, mobile switching centers, and other telecom infrastructure, especially in regions with high summer temperatures .

Key Features



1. **Wide Operating Temperature Range:** Modern outdoor telecom power systems can operate from -40°C to 60°C, ensuring stable performance even during heatwaves or desert conditions . Thermal insulation and anti-corrosion materials help maintain efficiency and protect internal components. 2. **IP-Rated Protection:** Systems often feature IP67 or IP68 ratings, making them dustproof and waterproof. This ensures that the power supply remains functional even under prolonged exposure to dust, rain, or immersion in water . 3. **Backup and Energy Management:** High-temperature resistant systems integrate high-capacity lithium-ion batteries and intelligent energy management. They can switch to backup power in milliseconds during grid failures, providing 8–72 hours of continuous operation, depending on site requirements . Many systems also support solar charging, enabling off-grid operation in remote locations . 4. **Modular and Scalable Design:** Systems like the EverExceed ER and ESG series or Benning SLIMLINE NG rectifiers offer modular designs, allowing flexible expansion and easy maintenance. Rack-mounted configurations (19-inch, 1U or 3U) support multiple rectifier modules, ensuring redundancy and high reliability . 5. **Remote Monitoring and Maintenance:** Advanced systems include remote monitoring capabilities, allowing operators to track voltage, current, battery status, and equipment temperature in real-time. Fault alerts are sent instantly, reducing the need for on-site visits and lowering maintenance costs by up to 60% .

Applications

These high-temperature resistant telecom power systems are suitable for:

- Outdoor base stations (BTS) in urban and rural areas
- Remote telecom sites in deserts, plateaus, or coastal regions
- Data centers and industrial telecom operations requiring uninterrupted DC power

Conclusion

For Hungarian telecom sites exposed to high temperatures, outdoor telecom power systems with wide temperature tolerance, IP67/IP68 protection, integrated backup batteries, and remote monitoring provide reliable, uninterrupted power. Systems from providers like EverExceed, Benning, and Soetec are specifically designed to maintain performance under extreme heat, ensuring network stability and reducing operational costs .

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Development of the power supplies at the Hungarian Telecom

The Hungarian Telecom Company wants to invest a lot into the new telephone exchanges in the future. Of course, the

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