



SolarTech Power Solutions

Lebanon Energy Storage Power Communication BESS



Overview

Why should you choose a Bess energy storage system?

The mobility and flexibility of the system enables novel applications and deployments where BESS previously were unused due to the non-flexible solutions. The system is modular, meaning that the energy storage capacity can be quickly adapted depending on the application case, in contrast to larger and bulkier solutions.

How much power does a Bess have?

The system is built of two main blocks. The PCS building block, responsible for the main control of the mobile BESS. The nominal power rating of the PCS block is 225 kVA, with a maximum peak power in the peak shaving mode of 275 kW. The second block is the modular battery pack.

What are the environmental conditions of a mobile Bess system?

Due to the flexible and mobile nature of mobile BESS, the environmental conditions can differ greatly for each system depending on the respective mobile deployments. Ranging from high temperatures and high humidity to the inverse during the same season, monitoring and control of the TMS is critical.

Which communication interfaces are compatible with a mobile Bess?

The investigation compares the identified communication interfaces and their respective applicability to a mobile BESS, specifically the VMS. For specific power utility applications, it is clearly noted that the standard IEC 61850 allows clear benefits compared to the other investigated interface.

Are mobile Bess applications compatible with smart grid applications?

The analysis is performed by a literature review of typical mobile BESS applications with the identified corresponding communication interfaces. Among the identified interfaces is the IEC 61850 standard, which shows

suitability in smart grid applications, enabling interoperability, vendor-independence, and standardization.

Do coordinated voltage control strategies reduce voltage violations in Mobile Bess units?

As presented in , coordinated voltage control strategies for mobile BESS units shows mitigation of voltage violations by coordinated regulatory actions with transformer tap changers, capacitor banks and photo-voltaic generation in a distribution network.

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