Classification of uninterruptible power supply functions of communication base stations

Overview

Voice-over-Internet-Protocol (VoIP), Digital Subscriber Line (DSL), and Third-generation (3G) base stations all necessitate varying degrees of complexity in power supply design. We discuss factors that influence power system design for these three applications below. The stable operation of mobile communication networks directly depends on the uninterrupted and reliable supply of electricity to base stations. Practice shows that the existing energy supply sources - the power grid, diesel generators and batteries - do not allow for effective operation in. These systems ensure a stable and uninterrupted power supply, which is critical for the operation of telecommunication networks. They vary greatly in topology, size, capacity, form factor, etc. Power factor corrected (PFC) AC/DC power supplies with load sharing and redundancy (N+1) at the front-end feed dense, high efficiency DC/DC modules and point-of-load converters on the back-end.

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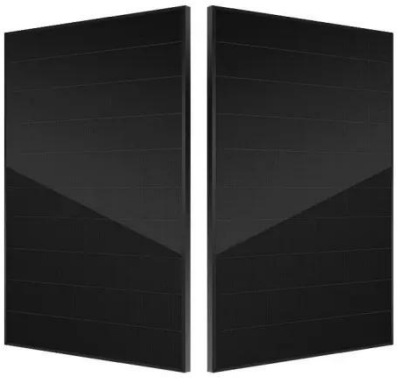

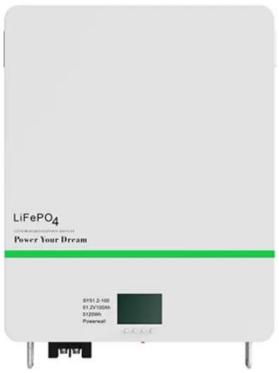

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