

ContainerPower Energy Solutions

High voltage cabinet energy storage power supply DC



Overview

What is a high voltage direct current (HVDC) transmission system?

A high-voltage direct current (HVDC) electric power transmission system uses direct current (DC) for electric power transmission, in contrast with the more common alternating current (AC) transmission systems. Most HVDC links use voltages between 100 kV and 800 kV.

How many power supplies can a 24U cabinet support?

For single cabinet requirements, two cabinet heights are offered. The 24U cabinet can accommodate up to four 30kW DC power supplies or up to four 30kW regenerative DC loads. Power levels to 120kW are supported by this cabinet size. For requirement up to 240kW, the 42U cabinet is needed.

How many kW can a 24U cabinet accommodate?

Cabinets heights of 24U or 42U are offered to accommodate up to 120kW in a 24U cabinet or up to 240kW in a 42U cabinet. All cabinets are made using 15kW or 30kW master DC supply or Load and parallel connected 15kW or 30kW slave units. The masters controls the entire system for ease of operation. All individual units are 19" rack mount.

What voltage does a HVDC line use?

Most HVDC links use voltages between 100 kV and 800 kV. HVDC lines are commonly used for long-distance power transmission, since they require fewer conductors and incur less power loss than equivalent AC lines. HVDC also allows power transmission between AC transmission systems that are not synchronized.

How many DC buses can a multi-cabinet system have?

The DC bus is directly accessible on specific connection points (screws). The multi-cabinet solutions can have up to three DC buses which are connected in parallel from cabinet to cabinet via cables. The construction of the cabinets

ensures high safety for per-sonnel.

What is a voltage sourced HVDC converter?

For this reason, an HVDC converter using IGBTs is usually referred to as a voltage-sourced converter. The additional controllability gives many advantages, notably the ability to switch the IGBTs on and off many times per cycle in order to improve the harmonic performance.

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