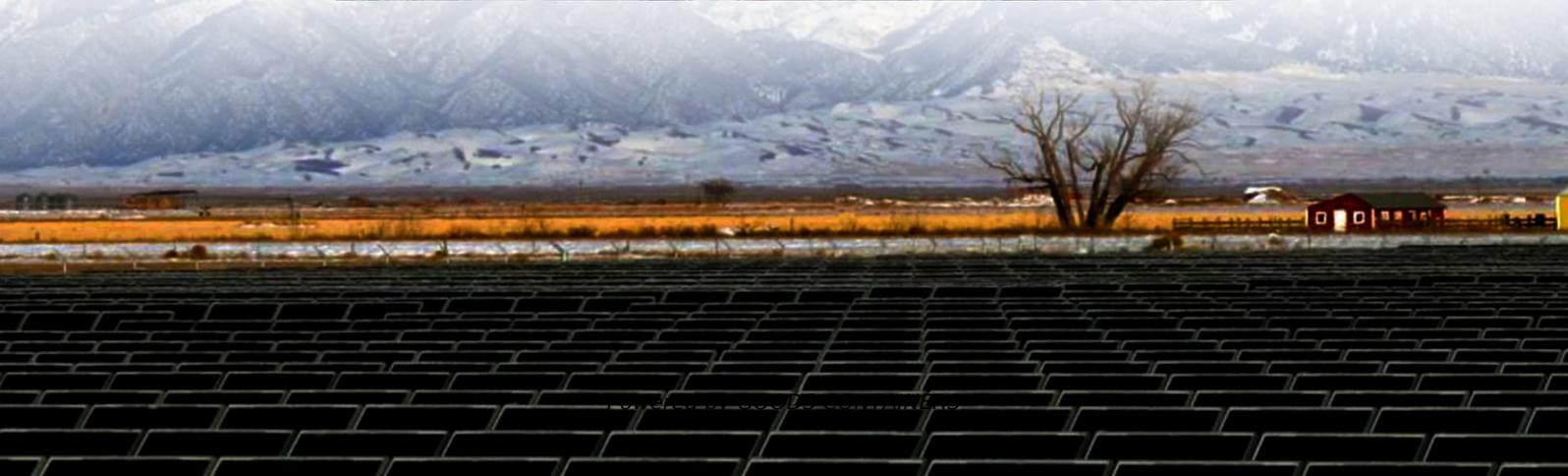


Communication high voltage battery cabinet charging process





Overview

How complex is a battery charging system?

The complexity (and cost) of the charging system is primarily dependent on the type of battery and the recharge time. This chapter will present charging methods, end-of-charge-detection techniques, and charger circuits for use with Nickel-Cadmium (Ni-Cd), Nickel Metal-Hydride (Ni-MH), and Lithium-Ion (Li-Ion) batteries.

How does a high-performance charging system work?

Most high-performance charging systems employ at least two detection schemes to terminate fast-charge: voltage or temperature is typically the primary method, with a timer as the back-up in case the primary method fails to correctly detect the full charge point. FIGURE 2. V/T PLOTS FOR 1C CHARGE RATE.

What are the different types of battery charging methods?

In the realm of battery charging, charging methods are usually separated into two general categories: Fast charge is typically a system that can recharge a battery in about one or two hours, while slow charge usually refers to an overnight recharge (or longer).

How long does a battery take to charge?

About 65% of the total charge is delivered to the battery during the current limit phase of charging. Assuming a 1c charging current, it follows that this portion of the charge cycle will take a maximum time of about 40 minutes. The constant voltage portion of the charge cycle begins when the battery voltage sensed by the charger reaches 4.20V.



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Figure 1 is the change curve of the battery voltage with time in the charging process. It shows that in . the lithium battery charging process, higher the current multiplying rate is, the faster



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