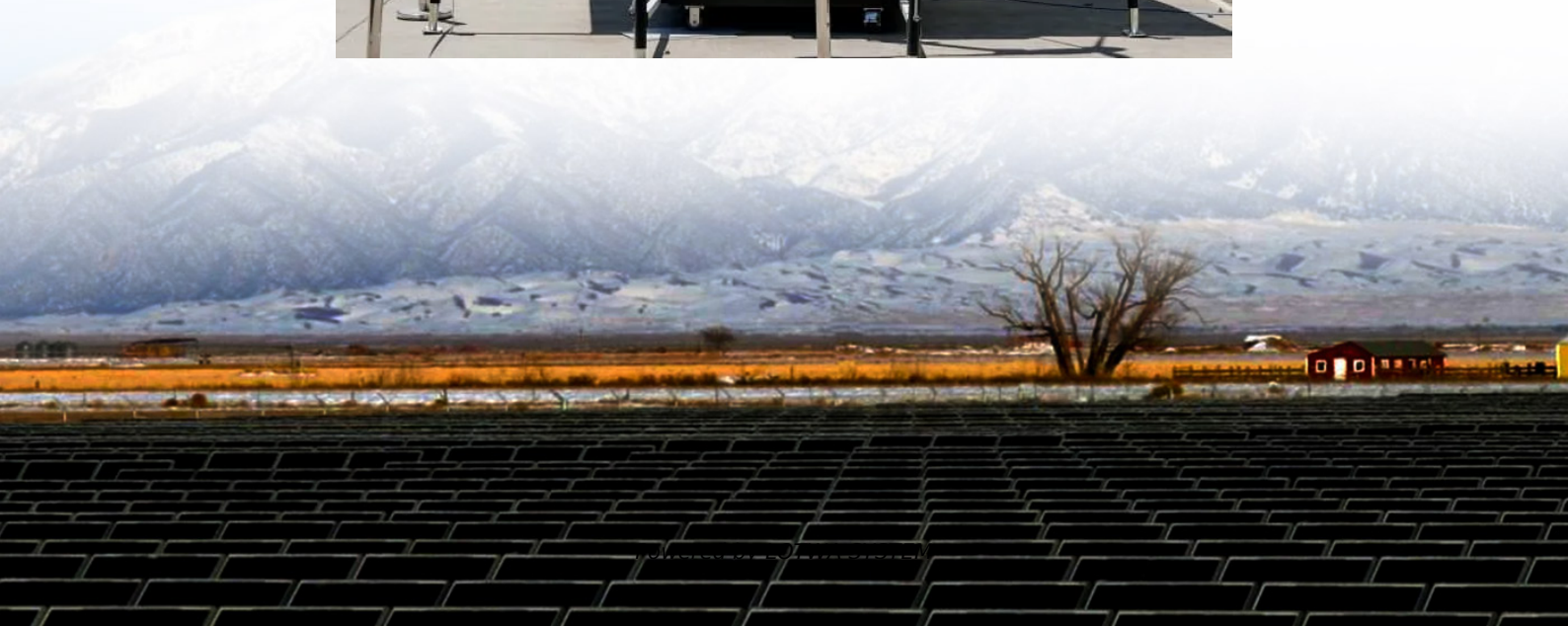


How much is the discharge current of the battery cabinet





Overview

What happens if you discharge a battery in one hour?

Generally, for a given capacity you will have less energy if you discharge in one hour than if you discharge in 20 hours, reversely you will store less energy in a battery with a current charge of 100 A during 1 h than with a current charge of 10 A during 10 h. This phenomenon is significant for Lead batteries, much less for lithium batteries.

How long can a battery be discharged?

Maximum 30-sec Discharge Pulse Current –The maximum current at which the battery can be discharged for pulses of up to 30 seconds. This limit is usually defined by the battery manufacturer in order to prevent excessive discharge rates that would damage the battery or reduce its capacity.

What percentage of a battery should be discharged?

Shallow Discharge: Using only 20–30% of the battery's capacity. Deep Discharge: Using 80–100% of the battery's capacity. Deeper discharges can shorten the battery's lifespan. For example, a battery cycled at 80% DoD may last only 500 cycles, while the same battery cycled at 20% DoD could last 2000 cycles.

How do you calculate battery capacity?

Capacity is calculated by multiplying the discharge current (in Amperes) by the discharge time (in hours) and decreases with increasing discharge current. For secondary batteries, nominal capacity is usually given as capacity for a specific discharge rate, typically for stationary batteries a 10-hour or a 20-hour rate.



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