

Kongres Container

48v inverter protection



Overview

Do I need a fuse between battery bank and inverter?

The short answer is yes, you do need a fuse (or a circuit breaker) between your battery bank and inverter. If an overcurrent occurs, a fuse between your battery and inverter would blow immediately, which would disconnect the circuit, and therefore protect your battery, inverter, and wiring.

What size fuse should I use between a battery and inverter?

The size of the fuse that you use between your battery and inverter will depend on: The amount of current (Amps) that you'd like the inverter to be able to pull from the battery. The amount of current that the wire between your inverter and battery can safely conduct.

How many amps can I use between my inverter & battery bank?

Max. Inverter Input Amps (DC) Larger cables may used if the distance from your inverter and battery banks is more than 10 feet (~3m). altE offers in a variety of lengths for both between your inverter and battery bank and also between your batteries. We also have ranging from 1 amp up to 400 amps.

How to control an inverter/charger via a SBP?

In case you want to control an inverter or inverter/charger via a SBP, you must use the SBP to control the inverter or inverter/charger via its remote port. See example below. Note that the image shown below is an example for all BatteryProtect models including the smart models.

What happens if an inverter circuit fails?

The inverter circuit can pull 300 amps fault current. If the inverter circuit over-current protection blows and fails to extinguish the arc, the plasma filament over the fuse gap will be very low resistance. So the BMSs should start to disconnect in cascade within microseconds.

How efficient is an inverter?

Inverter efficiency (%) @ max. load: Inverters are not 100% efficient, which means they pull more power out of the battery than they deliver to the appliances. The efficiency of the inverter will depend on the inverter, but generally, you should expect around 85% (0.85) efficiency at maximum load.

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Contact Us

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