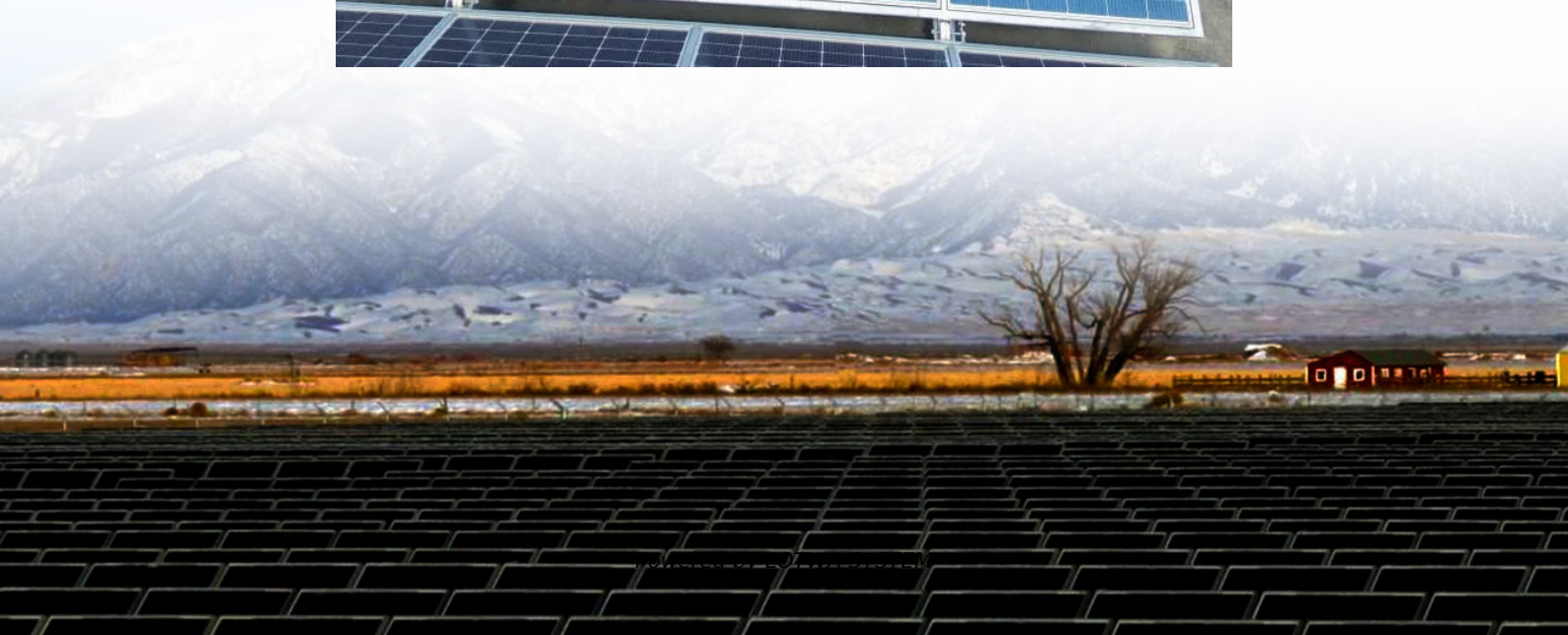


High voltage inverter current is too strong





Overview

Motor / inverter package is underpowered for the load. This is a design fault and equipment upgrade is the most likely solution. Why does my inverter have a current limit alarm?

During normal operation, we may encounter the inverter prompting the current limit. For general inverters that cannot work normally and smoothly when the current limit alarm appears, the voltage (frequency) must be lowered first until the current drops to the allowable range.

What happens if you change time offset between inverter command and grid voltage?

If you change (slightly) the time offset between inverter command and grid voltage, the offset will change. Real grid-tied inverters, cannot operate without a current loop which measures the current in the inductor and drives the inverter in order to obtain a given (usually sinusoidal) current reference.

Why is my inverter NOT working?

This is a very serious phenomenon of overcurrent. The main reasons are: load short circuit, mechanical parts are stuck; inverter module is damaged; motor torque is too small, etc. (2) It trips when powered on. This phenomenon generally cannot be reset. The main reasons are: module is bad, drive circuit is bad, current detection circuit is bad.

How does a grid-tied voltage inverter work?

Basically, a voltage inverter is a voltage source. And the grid is also a voltage source. So, in a grid-tied voltage inverter, you connect two voltage sources with only a (small) inductor in between. The current in the inductor is given by: $\frac{1}{L} \int (v_i(t) - v_g(t)) dt = \frac{1}{L} \int v_i(t) dt - \frac{1}{L} \int v_g(t) dt$ where $v_i(t)$ and $v_g(t)$ are the inverter and grid voltages respectively.



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