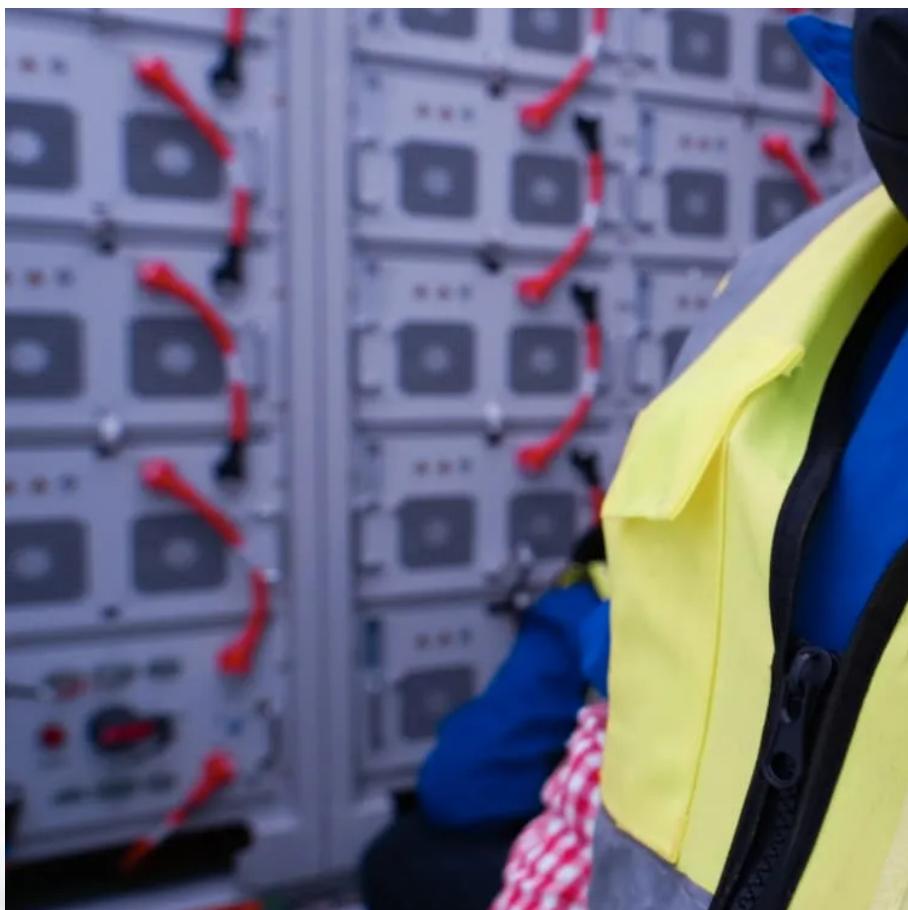




WALMER ENERGY

Lima is withdrawing the exemption for double-glass modules





Overview

What is a double glass PV module?

Double-glass PV modules In double-glass or glass-glass PV modules the polymer back sheet layer is replaced by a glass layer identical to the top glass, creating a symmetrical “sandwich” structure. The PV cells are in the center, compressed by an encapsulant film and glass layers [11].

How common is glass breakage in PV modules?

A customer complaints research, on PV modules after two years of operation, observed glass breakage for 10% of the failure cases [28]. Another study on PV failures observed an even higher failure-share for glass breakage.

Can glass break a PV module?

Studies have found that contact between glass and frames is linked to spontaneous breakage in some PV modules. A recommended solution is using rubbery silicone spacers which maintain separation between the glass and the frame. Many modules already use silicone gaskets, but some designs leave gaps where the glass directly touches the metal frame.

Do PV modules with glass defects meet safety and performance standards?

The probability of (in)direct degradation and electrical shocks by glass defects, make that PV modules with glass defects do not meet the safety and performance standards set by the International Electronical Committee (IEC 61215 and IEC 61730) [41] (see Appendix A for more details).



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