

ContainerPower Energy Solutions

Double-glass module installation environment



Overview

Where can JA Solar modules be installed?

JA Solar Modules can be installed at seaside locations 50m to 500m from the sea, but the components should be protected against corrosion. For the detailed requirements, follow JA Solar seaside installation instructions. Modules cannot be applied for some special requirements, e.g. for buildings, marine and vehicle applications.

Can JA Solar make changes to the product specifications or installation manual?

JA Solar reserves the right to make changes to the product, specifications or installation manual without prior notice. Failure to comply with the requirements listed in this manual will invalidate the Limited Warranty for Modules as provided by JA Solar at the same time of sale to the direct customer.

What are the safety requirements for a roof module?

Modules qualified for safety through IEC 61730-1 and IEC 61730-2 and within this application class are considered to meet the requirements for safety class II equipment. When modules are mounted on rooftops, the roof must have a fire resistant covering suitable for this application.

How do JA Solar modules work?

The junction boxes used with JA Solar modules contain bypass diodes wired in parallel with the PV cell strings. In the case of partial shading, the diodes bypass the current generated by the non-shaded cells, thereby limiting modules heating and performance losses. Bypass diodes are not over-current protection devices.

Do JA Solar modules corrode?

JA Solar modules have passed the IEC 61701 salt-mist, but galvanic corrosion

can occur between the aluminium frame of the modules and mounting or grounding hardware if such hardware is comprised of dissimilar metals.

Why do JA Solar modules need a grounding device?

JA Solar modules use an anodic oxidized aluminium frame to resist corrosion. So the frame of modules must be connected to the equipment grounding conductor to prevent thunder and static hurt. The grounding device should fully contact with the inside of the aluminium alloy, and penetrate the surface of the frame oxidation film.

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