



Above is the drawing of SF125 series module. The frame of each module has eight 9×14 mm ellipses mounting holes. These are used to secure the modules to the supporting structure. The four holes close to the corners of the module are most often used for mounting. Others 18 small holes (5×8mm) are used to leak the raining water, especially in the winter they can prevent the frozen ice burst the frame. Clearance between the module frame and the mounting surface may be required to prevent the junction box from touching the surface, and to circulate cooling air around the back of the module. In case the modules will be mounted on the roof or wall of a building, the standoff method or the rack method are recommended.

STANDOFF: The modules are supported parallel to the surface of the building wall or roof. Clearance between the module frames and surface of the wall or roof is required to prevent wiring damage and to allow air to circulate behind the module.

RACK: The supporting frame is used to mount modules at correct tilt angles. The modules are also designed for integral mounting as part of a roof or wall. The mounting design may have an impact on the fire resistance.

8.WIRING

Most of the larger “SUNOWE” SERIES MODULES use the “QC solar” type junction box. This box, on the back side of the module, is weatherproof and is designed to be used with standard wiring or conduit connections. Wiring methods should be in accordance to the manual of the “QC solar” type junction box. (see the attachment). Bypass diodes and cable clamps are included with each module when shipped from the factory.

9.GROUNDING

We recommend you attach all module frames to an earth ground. Attach a separate ground wire to one of the extra mounting holes on the modules frame with a self trapping screw. The racks must also be grounded unless they are mechanically connected by nuts and bolts to the grounded modules.

Grounding is achieved by securing the array frame for both roof and field mounted application. Additionally, the array frame shall be installed correctly.