

--- Cell-Protector ▾

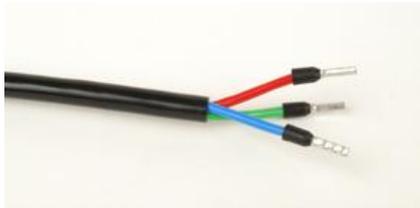
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## SunWare Cell-Protector

Applies only to SunWare solar panels with three wire cable!



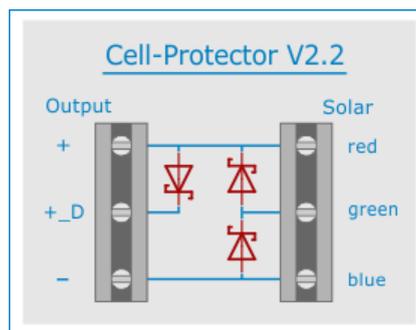
The purpose of the cell-protector is to prevent overheating of the solar cells when the solar module is partial shaded (Hotspot), this is achieved by the diodes on the circuit board. (By standard aluminium framed glass modules these diodes are located in the junction box on the backside of the modules.) To replace easily the diodes in the case of damage, SunWare integrates the two diodes in the cell-protector and not in the junction box.

### ! Attention !

**Before using your solar module, you have to connect the enclosed cell-protector!**

The cell-protector has to be mounted / operated in a dry place, it must not become wet or moist with dew. The cable of each single SunWare solar module has to be connected to one single cell-protector. Only behind the cell-protector, modules could be connected in series or parallel.

The cell-protector is also to reorder in our Online-Shop.



## Connecting the cell-protector



Cell-Protector equipped with PCB board

### Contact termination: Bypass



Left: two cables to charge controller, terminals "+", "-"

With this hookup, the cells are protected with 2 bypass diodes against the hot spot effect.

### Contact termination : Bypass + Reverse current protection



Left: two cables to charge controller, terminals "+\_D", "-"

With this hookup, the cells are protected with 2 bypass diodes against the hot spot effect and the additional blocking diode protects against reverse current back into the module.

By damage to a module or cable by several modules in parallel operation an influence can be prevented on the other modules with the use of the blocking diode.



Cell-protector with cover cap

Manuals for older versions of cell protector in the [download area](#)

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### Where to find the cell-protector:



**All SunWare solar modules with three-core cable are supplied with a cell protector.**

These modules are labeled with a sticker on the packaging / Note for the cell-protector.  
See arrow, photo on the left.



The cell protector is located in a recess of the inner cardboard.  
See arrow, photo on the left.  
View: cardboard from the bottom.



The cell protector is located in a recess of the inner cardboard.  
See arrow, photo on the left.  
View: cardboard from the top.