

DAY4
DNA



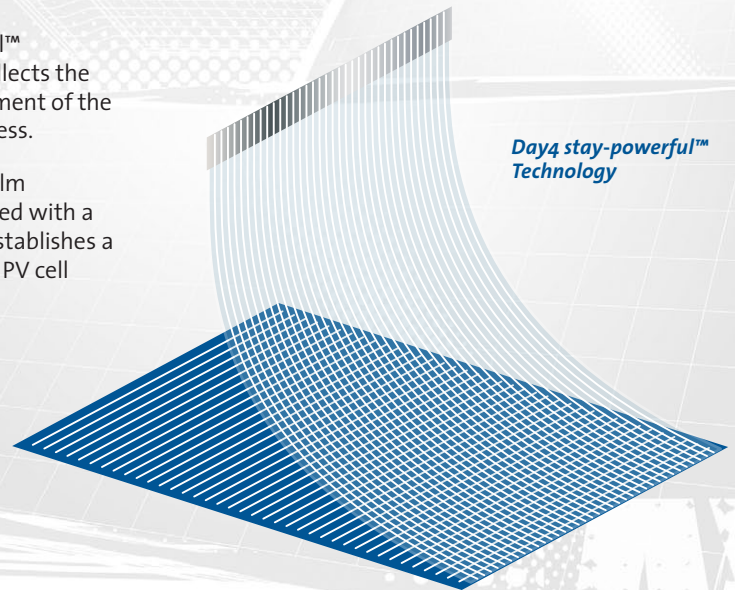
stay-powerful™
TECHNOLOGY

The new standard for energy collection in solar PV modules.

The core of our advantage is the patented stay-powerful™ Technology that interconnects solar electric cells and collects the power they generate. This innovation is a direct replacement of the conventional, high temperature solar cell soldering process.

stay-powerful™ Technology is comprised of a polymer film embedded with a number of copper wires specially coated with a proprietary, low-temperature melting point alloy. This establishes a low-resistance electrical contact with the surface of the PV cell creating over 2,100 independent electrical contacts.

This seemingly simple change to the standard process triggers a number of far reaching benefits, including: improved PV cell efficiency and mechanical stability, exceptional PV module power density and better long term performance where it truly matters – in the field.





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Features

- ▶ Cells connected using a matrix of electrically-efficient copper wires coated with a custom, low melting point alloy.
- ▶ Eliminated thick, inefficient busbars and high temperature soldering.
- ▶ Wires embedded onto a polymeric film with one external busbar along the end.
- ▶ Layers laminated and vacuum sandwiched at a low temperature.

Benefits

- ▶ Effective transportation of electrons to a highly conductive contact with less resistance and heat generation.
- ▶ High efficiency in low light conditions.
- ▶ Low cell surface shading – alloy reflects light back onto the cell.
- ▶ Self cooling PV cell technology results in lower operating temperatures.
- ▶ Matrix design creates 18 times more connection points.
- ▶ If a microcrack occurs, the electron flow continues. Wires act as a “bridge” across any interruption.
- ▶ More kilowatt hours with virtually no power losses from cell to module.



See how stay-powerful™ works
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