

Frequently Asked Questions

1. Are your modules certified?

PowerXT® modules are certified to UL 1703 with an industry-leading Type 1 Fire Rating. Additionally, they have IEC 61215/61730 certification and are listed on the California Energy Commission's "Go Solar California" website for SB-1 compliant products, commonly referred to as "The CEC List": http://www.gosolarcalifornia.org/equipment/pv_modules.php

Note: SB-1 compliance allows the modules to qualify for Federal and State rebate and/or tax incentives where applicable.

2. Explain how you make your modules?

Solaria utilizes a unique and proprietary process for dicing and connecting solar cells into a format that enables them to be "shingled" together instead of connected with traditional bussing ribbons. This unique format allows us to make higher power modules that still fall in typical Voltage and Current requirements for standard DC conditioning equipment used in PV systems such as inverters, battery chargers and power optimizers.

3. How are Solaria modules different than other modules?

Standard modules utilize copper ribbons to interconnect all the cells in the module together by means of high-temperature soldering processes. Although this method is certainly the most common it is not the most efficient. The busbars need to cover a portion of the solar cells (as much as 3.5%) and require the cells to be spaced apart from one other. There is typically over 100 feet of ribbon per module to enable all these connections. That is a lot of copper and lot of potential failure points. Solaria modules remove this cumbersome element increasing the module power and long-term reliability.

4. Why is your product higher power?

PowerXT® "cell shingling" allows more cells to be placed into the module and is further able to extract more power per cell due to reduction of wasted "white space" and shading from the busbars. Because we dice the cells prior to interconnecting it allows us more control over the final size of the module. The Solaria module is thus slightly wider (about 4"), than a typical module which also helps boost the power. Thus, PowerXT has higher power AND higher efficiency than typical panels.

5. What is the efficiency of your module?

Our 355Wp product has a module efficiency of 19.6%. Module efficiency is calculated based on power per unit area of the entire module including the frame. Beware of companies who advertise their high cell efficiency rather than the actual module efficiency which is typically lower. For example, a standard module utilizing a 18% efficient cell will yield only a 17% module.

6. What is your warranty?

Solaria makes it easy for the installer and homeowner with a simple, 25-year, "bumper-to-bumper" linear power and workmanship warranty: www.solaria.com/additional-product-information/

7. Any special requirements on mounting?

No, we use an industry standard 40mm anodized aluminum frame which is compatible with most UL2703 certified racking systems. Check with your installer for specific mounting options available to you. The PowerXT® Installation Manual describes allowable mounting methods in more detail.

8. Does your panel work with Microinverters and Power Optimizers?

Yes, although the power is higher than standard modules the voltage and current characteristics of the module are within the allowable operating window of most major suppliers of Module Level Power Electronics (MLPE) including Enphase, SolarEdge and APSystems. We recommend always checking the latest manufacturer specs to ensure compatibility with Solaria PowerXT® modules.

Solaria is also proud to partner with Enphase to offer an integrated AC module solution available now. The Solaria AC Module offers an elegant integrated solution that reduces system design and installation time.

9. Can I simulate energy yield?

Yes, The PowerXT® product datasheet also includes all the relevant information that a trained contractor can use to accurately estimate the energy yield of your PV system. PVSYST is the industry standard software for estimating PV system energy yields and utilizes the “.PAN” file format for specific modules. PAN files for Solaria modules are available upon request.

10. What does your module look like?

PowerXT® is exclusively available in a sleek, all-black construction offering an aesthetically superior alternative to standard PV modules. Specifically, the cells, backsheet and frames are all black with no white areas anywhere on the module.

11. What do the part numbers mean?

PowerXT® is available in two formats, -PD and -BD. Both are the same dimensions and all black construction described above. The -PD uses premium efficiency cells and are best suited for applications where the highest efficiencies are important. The -BD also uses premium efficiency cells but has slightly less available cell area on the module and therefore a slightly lower power rating. Both versions offer amazing aesthetics for rooftop applications with the same reliability and warranty. The three digits in the part number indicate the peak power rating in watts.

12. How do the PowerXT® modules have better shade tolerance?

The PowerXT® module utilizes more diodes and parallel cell connections than standard modules which makes them much more tolerant of partial shading thus yielding higher energy output on typical residential applications. Typical module construction has all the cells series. Even with bypass diodes this makes shading much more disruptive to their output.

13. Where can I buy your module?

Solaria PowerXT® modules are currently available from several top US distributors. For a current list of our distribution partners go to: www.solaria.com/rooftop-partnerships/

Due to increasing customer demand for high-efficiency modules, supplies are currently limited. Check our website frequently as we will continually add additional preferred supplier options.

14. Where are PowerXT® modules manufactured?

Most Solaria modules are currently produced in South Korea. Solaria has also expanded its production into US at our Fremont, CA headquarters. We have a limited supply of modules from this facility available on a case-by-case basis.

15. Can I get a loan to finance a system with Solaria modules?

Yes, MOSAIC is the national leader in renewable and solar financing for homeowners. Solaria is proud to be on their list of approved solar module products. Visit them at: <https://joinmosaic.com/>

For a complete list of qualified finance partners got to: www.solaria.com

Property Assessed Clean Energy (PACE) is another financing mechanism that enables low-cost, long-term funding for energy efficiency and renewable energy projects to be financed and repaid as an assessment on the homeowner's regular property tax bill. PACE financing can offer payment terms of up to 20 years with no out-of-pocket costs. We recommend Renew Financial as the leader in solar PACE financing: <https://renewfinancial.com/>. Additional information on PACE financing can be found here: <http://pacenation.us/what-is-pace/>