



# First Solar Series 6™ Thin Film Modules

NEXT GENERATION SOLAR TECHNOLOGY



# Higher Lifetime Energy. Lower LCOE. Superior Return.

First Solar Series 6™ photovoltaic (PV) modules deliver the highest lifetime energy for large-scale solar projects. For asset and power generation owners, engineers and installers, this means reduced balance of system costs and a lower Levelized Cost of Electricity (LCOE) for a superior return on investment.



## INNOVATIVE DESIGN MEANS MORE BENEFITS FOR YOUR BOTTOM LINE

The Series 6 module leverages two decades of engineering expertise and over 25GW of modules shipped to over 45 countries around the world. This experience, combined with input from customers and industry experts allows us to provide our proven module technology in a larger form factor with a more economical design. The results deliver more benefits and cost-efficiencies for your application, including:

### Industry-Leading Long-Term Reliability

First Solar has a one-product architecture controlled by a single set of global specifications for Bill of Materials (BoM) components, and one highly-automated manufacturing process that produces 100 percent of our modules end-to-end under one roof. This results in a tightly controlled, consistently manufactured, high-quality product. Plus, the durable glass/glass construction, tested and certified beyond IEC standards, delivers reliable lifetime performance.

### Reduced Shipping Costs

The under-mount frame is designed to enable a horizontal stacking configuration, optimizing shipping density, reducing breakage and minimizing packaging waste.

### Best Environmental Profile

With the smallest CO<sub>2</sub> footprint, lowest water use and fastest energy payback, Series 6 modules are the industry's most eco-efficient PV solution.

### Reduced Maintenance Costs

The innovative under-mount frame design provides the cleaning and snow shedding benefits of a frameless module.



INNOVATIVE  
UNDER-MOUNT FRAME



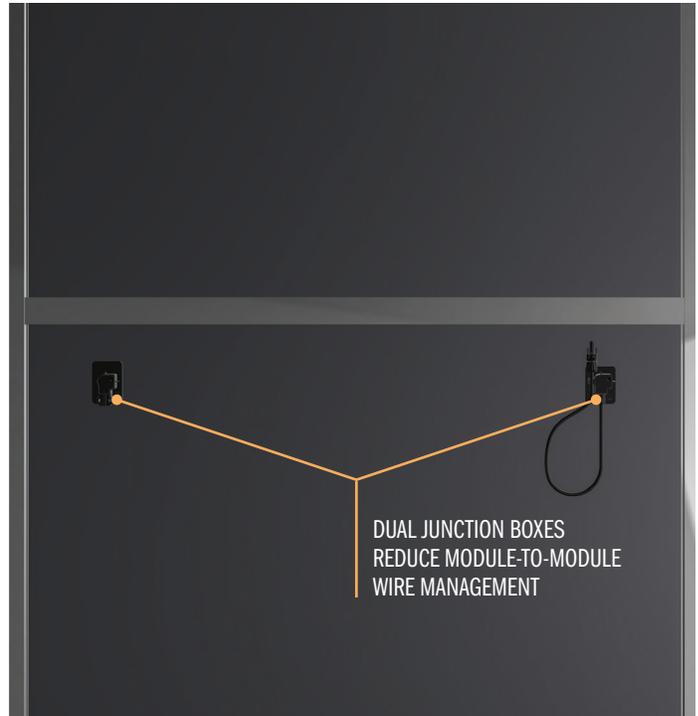


SPEEDSLOT™ PROVIDES UNMATCHED INSTALLATION SPEED AND MOUNTING FLEXIBILITY



## LOWER INSTALLATION COSTS

Series 6 modules are designed for a quick and easy, two-person installation. The under-mount frame with innovative SpeedSlot™ allows for versatile mounting to common fixed-tilt and tracking systems, minimizing onsite engineering, reducing material costs and enabling the fastest installation time in the industry. Additionally, the dual junction box design reduces the need for wire management for module-to-module connections.



DUAL JUNCTION BOXES REDUCE MODULE-TO-MODULE WIRE MANAGEMENT

## MORE ENERGY IN REAL WORLD CONDITIONS

First Solar Series 6 modules offer exceptional performance that delivers on the financial promise of your project, with:

### More MWh per Installed MW

Series 6 modules deliver significantly more energy per watt installed than conventional silicon panels in many climates.

### Superior Temperature Coefficient and Spectral Response

Our innovative thin film technology features a low temperature coefficient of  $-0.32\%/^{\circ}\text{C}$ , resulting in more annual energy, especially in hot climates.

First Solar modules are also less sensitive to the reductions of specific wavelengths of available light in humid climates. As a result, these modules have a superior spectral response behavior compared to c-Si panels that means up to 4% more annual energy in high humidity conditions.

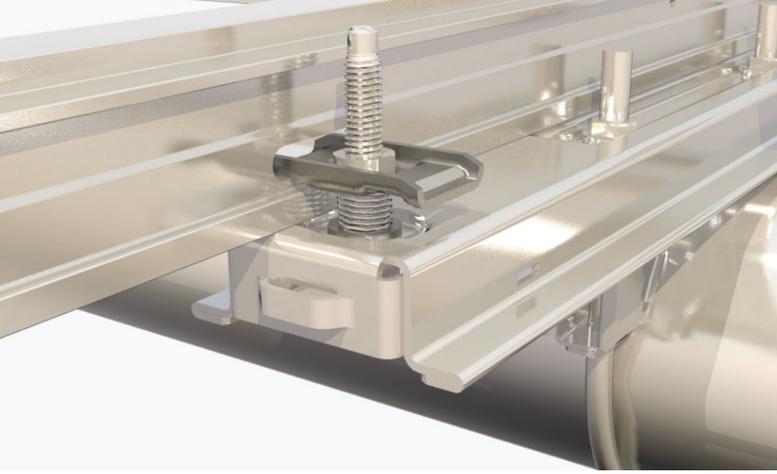
### Better Shading Response

Series 6 modules are less sensitive to power loss from shading through their unique cell design. With Series 6, only the shaded area is impacted; typical silicon panels turn off disproportionately large portions of the panel due to their electrical design.

### Inherent Immunity to Cell-Cracking

First Solar's thin film modules are extremely resistant to glass breakage, featuring an industry-leading hail impact certification.

Plus, Series 6 modules are protected by the industry's first and only product warranty that specifically covers power loss from cell cracking.



## THE ADVANTAGE OF COLLABORATIVE DESIGN

Developing next-generation technology required a next-generation approach. First Solar launched an extensive listening campaign with leading component and structure providers, our partners in the field, to identify controlling factors that would help maximize installation velocity while retaining two-person installation teams. We also turned to these providers for direct input on every aspect of the module to ensure we designed and built a superior product for the market.

The result is a module that has one of the lowest costs per-watt-installed in the market, optimized for an expansive and ever-growing ecosystem of structure and electrical component providers.

**50+** COMPONENT &  
STRUCTURE PROVIDERS  
*WITH MORE ON THE WAY...*

*Images courtesy of Array Technologies and NexTracker.*

## FIRST SOLAR IS YOUR PROVEN ENERGY PARTNER

First Solar understands that its commitments form an essential part of your customers' project execution timelines and asset profitability. As a result, you can be assured First Solar takes its obligations seriously and delivers on promises.

First Solar is not just another PV manufacturer. It combines a high-quality PV module, designed with your needs in mind, with access to global industry expertise and tools, and meaningful engagement when it matters.

First Solar offers stability. With twenty years and 25,000MWs of global experience, and the strongest balance sheet in the industry, you get some of the most bankable modules available today, backed by robust warranties and consistent post-sales service.

PV EVOLUTION LAB'S 2020 PV  
RELIABILITY SCORECARD

**TOP PERFORMER**



LEADING THE WORLD'S  
SUSTAINABLE ENERGY FUTURE

## CONTACT US TO LEARN MORE

Learn how First Solar Series 6 modules will deliver a superior return on your energy investment with higher lifetime energy, reduced risk and a lower LCOE. For more information, contact us and let's start the conversation.

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