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Canadian Solar delivers first US-made TOPCon modules to distributor Signature Solar

By JP Casey (<https://www.pv-tech.org/author/jp-casey/>)

January 15, 2024

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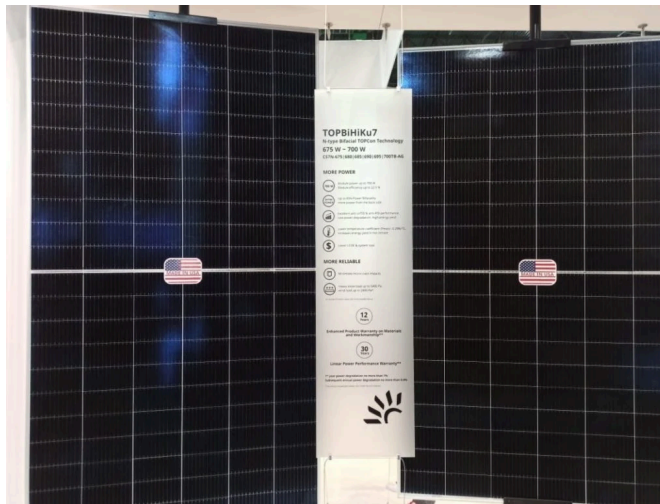
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Canadian Solar TOPCon modules at RE+ 2023 in Las Vegas. Image: Jonathan Touriño Jacobo for PV Tech.

Solar module manufacturer Canadian Solar has delivered its first 700W tunnel oxide passivated contact (TOPCon) modules, which were made in the US, to US solar distributor Signature Solar.

The company announced its TOPBiHiKu7 series of modules at the Intersolar Europe event, held in Germany last June. The range of bifacial modules includes six products with a power capacity of 675-700W.

These modules have a power conversion efficiency of up to 22.7%, and Canadian Solar corporate senior vice president Thomas Koerner announced that he "could not be happier about this partnership and friendship" with Signature Solar on LinkedIn.

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Petitioner Canadian Solar, Ex. 1057, p. 1

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Thomas Koerner · 2nd
Driving Solar Innovation and Growth @ Canadian Sol...
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And that's how a great years starts: our first US made high efficiency 700 Wp TopCon modules arrived at the warehouse of our Platinum Partner Signature Solar. Not only is Signature distributing and installing both residential and commercial products of Canadian Solar, but also our full battery storage portfolio - from the 10 kWh - 120 kWh EP Cube system but also our >300 kWh KuBank commercial storage solution. I could not be happier about this partnership and friendship!!



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Koerner also noted that Signature Solar would sell Canadian Solar's full range of battery storage products, and the successful deployment of both battery products and TOPCon panels is an encouraging sign for Canadian Solar, which has refocused on TOPCon manufacturing, in particular, in recent years. In November 2022, the company forecasted that TOPCon modules would account for 30% of its total module shipments by the end of 2023 (<https://www.pv-tech.org/canadian-solar-to-focus-on-n-type-topcon-moving-forward-with-30-of-total-shipments-for-2023/>).

The Canadian Solar modules are produced at the company's facility in Mesquite, Texas, a plant with an annual nameplate production capacity of 5GW that started commercial operations last year. This is the company's first manufacturing facility in the US, and will look to benefit from the increased desire for US-based manufacturing underpinned by the Inflation Reduction Act (IRA) (<https://www.pv-tech.org/us-treasury-announces-guidance-for-45x-advanced-manufacturing-production-credit/>).

The news follows encouraging developments for Canadian Solar. In the first three quarters of 2023, the company shipped a more module capacity than in the entirety of 2022, as demonstrated in the graph below.

SOLAR MEDIA EVENTS

September 30, 2025
Seattle, USA

EV Infrastructure & Energy Summit
(<https://evinfrastructureenergy.solarenergyevents.com/>)

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October 1, 2025
London, UK

The Electric Vehicle Innovation and Excellence Awards 2025
(<https://evie.solarenergyevents.com/>)

SOLAR MEDIA EVENTS
October 2, 2025
London, UK

Energy Storage Summit Asia 2025
(<https://storageasia.solarenergyevents.com/>)

SOLAR MEDIA EVENTS
October 7, 2025
Manila, Philippines

PV CellTech USA 2025
(<https://www.pvtechconferences.com/pv-celltech-usa/>)
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SOLAR MEDIA EVENTS
October 7, 2025
San Francisco Bay Area, USA

Canadian Solar quarterly module shipments

Q1 Q2 Q3 Q4



Source: Canadian Solar

Graph showing Canadian Solar module shipments by quarter. Credit: PV Tech

However, the company also noted that it expects its module shipments to shrink by around 8% in the fourth quarter of 2023 (<https://www.pv-tech.org/canadian-solar-q3-module-shipments-up-39-to-8-3gw/>), and while Canadian Solar has not yet published its financial results for the final quarter of the year, this concern suggests that 2023 could be a high point for the company's module shipments, rather than the start of sustained growth in sales.

Canadian Solar also saw its net revenues fall by 22% between the second and third quarters of 2023, due to lower-than-expected module sales, and a decrease in the average module selling price.

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September 30, 2025

Global investor KKR has acquired 50% of a 1.4GW solar portfolio in North American from French oil major TotalEnergies.



(<https://www.pv-tech.org/new-south-wales-government-invests-au28-million-in-western-sydney-renewables-manufacturing-hub/>)

New South Wales government invests AU\$28 million in Western Sydney renewables manufacturing hub (<https://www.pv-tech.org/new-south-wales-government-invests-au28-million-in-western-sydney-renewables-manufacturing-hub/>)

September 26, 2025

The New South Wales (NSW) government has committed AU\$28 million (US\$18.3 million) to establish a new Renewables Manufacturing Hub in Blacktown, Western Sydney, Australia.



(<https://www.pv-tech.org/the-transatlantic-opportunities-for-european-pv-equipment-producers/>)

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The transatlantic opportunities for European PV equipment producers (<https://www.pv-tech.org/the-transatlantic-opportunities-for-european-pv-equipment-producers/>)

September 25, 2025

An anticipated uptick in US cell manufacturing presents opportunities for European PV tool producers, says RENA Technologies' Michael Vees.



(<https://www.pv-tech.org/inox-solar-1-2gw-first-phase-indian-topcon-module-manufacturing-factory/>)

Inox Solar starts 1.2GW first phase of Indian TOPCon module manufacturing plant (<https://www.pv-tech.org/inox-solar-1-2gw-first-phase-indian-topcon-module-manufacturing-factory/>)

September 25, 2025

Inox Solar has started the first phase of commercial operations at a module manufacturing plant in Bavla, India.



(<https://www.pv-tech.org/eu-iea-irena-lead-open-letter-calling-for-just-and-equitable-energy-transition/>)

EU, IEA and IRENA lead open letter calling for a 'just and equitable energy transition' (<https://www.pv-tech.org/eu-iea-irena-lead-open-letter-calling-for-just-and-equitable-energy-transition/>)

September 24, 2025

Representatives from the EU, IEA and IRENA have signed an open letter to deliver a 'just and equitable energy transition'.



(<https://www.pv-tech.org/boviet-solar-expands-north-carolina-module-manufacturing-capacity-3gw/>)

Boviet Solar expands North Carolina module manufacturing capacity to 3GW (<https://www.pv-tech.org/boviet-solar-expands-north-carolina-module-manufacturing-capacity-3gw/>)

September 23, 2025

Boviet Solar has added an additional 1GW of manufacturing capacity to its module manufacturing plant in North Carolina.

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