

### Leading the New Competitive Edge N-type TOPCon Technology

### Leading the Industry's High Power Module Era





 Trina Solar is leading a number of industrial-efficient technologies, like selective emitter, PERC, MBB, dual-glass design, 210mm cell, rectangular cell; and now Trina is leading the N-type Era!

# **TOPCon advanced high efficiency module products**











# Vertex N NEG19RC.20 | 600W+



N-TYPE 210R | HIGH POWER OUTPUT | HIGHER EFFICIENCY | LOW DEGRADATION

### **DESIGNED FOR C&I and UTILITY**

**High Power** 

# 600W

**Physical Parameter** 

Dimensions : 2384\*1134mm Weight : 33.1kg



**Module Efficiency** 

22.2%

#### **Electrical Parameter**

Low Voltage Design Concept Voc: 47.8V Isc: 15.72A



HIGHER POWER OUTPUT | HIGHER ENERGY YEILD | HIGH MODULE RELIABILITY

### **DESIGNED FOR UTILITY – Coming soon to U.S. market**

**Highest Power** 

# $\mathsf{Up}\,\mathsf{to}\,700W$

**Physical Parameter** 

Dimensions: 2384\*1303mm Weight: 38.3kg



**Module Efficiency** 

Up to 22.4%

**Trina**solar

#### **Electrical Parameter**

Low Voltage Design Concept Open Circuit Voltage: 48.3V Short Circuit Current: 18.28A

# **Vertex** N TOPCon advanced: excellent reliability **PVEL scorecard-TOP Performer**

### **Historical Scorecard**

The table below shows the history of top performance for all manufacturers featured in the 2023 Scorecard. Manufacturers are listed by the number of years they have been designated a Top Performer, in alphabetical order.

	2023	2022	2021	2020	2019	2018	2017	2016	2014
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Trina Solar	•	•	•	•	•	•	•	•	•
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Trinasolar

This is the 9th recognition in a row for Trina Solar, which also marks the most wins in the industry. This demonstrates Trina Solar's commitment to excellent quality consistency, high reliability and outstanding safety of its modules during the product and technology iteration.

OP PERFORM

2023

**PVEL**kiwa

RELIABILITY SCORECARD





### EXCELLENT COMPATABILITY



### Compatible with cleaning robots

Avoid generation losses caused by surface soiling

### Optimized number of piles per MW

Around 242 piles per MW

#### Dual Damper

Increase natural frequency of structure and wind resistance

### Enhanced Torque Tube Design

Rounded edged tube profile for long spans and high loads

**ENERGY STORAGE SOLUTIONS** 



TrinaStorage



# Our energy storage systems solutions

Trina Storage is a business unit of Trina Solar, a company with over 20 years of solar experience. Supported by a Tier-1 supply chain, Trina Storage provides highly-scalable, easy-to-install energy storage solutions.

With an in-depth understanding of the technical requirements, Trina Storage designs flexible commercial and industrial solutions that meet unique customer needs for the generation, transmission and distribution of solar energy.

Trina Storage builds on a strong solar heritage to deliver energy storage solutions at scale. Our mission is to lead the transition to renewable energy through cost-effective and high-quality storage. We're dedicated to providing "Solar for Everyone".

Trina Storage provides the most reliable energy storage platform on the market – from consultancy and hardware to software and service.

### Trinasolar

### **Dedicated US-Based Team**

Trina Solar US has **60+ dedicated US-based team members** in sales, operations, logistics, finance, tech, and customer support.

### **Dedicated US Supply**

Trina Solar US maintains state-of-the-art manufacturing bases in Vietnam and Thailand for a dedicated US supply of Vertex S+ solar panels. These high-capacity facilities provide distributors, suppliers, and installers more long- term forecasting certainty and reliability.

By using 100% U.S. and EU poly and 100% wafer from Vietnam to supply the U.S., Trina Solar remains compliant with the DOC's final ruling and the UFLPA.







### **US Manufacturing Announcement**

Trina Solar U.S. Bringing PV Manufacturing Facility and Jobs to Wilmer, Texas

• Location: Wilmer, Texas

Location:

Wilmer, TX

- 1.35 million square foot solar photovoltaic (PV) manufacturing facility
- More than a \$200 million investment in property and equipment
- 1,500 local jobs
- 5 GW of modules, with polysilicon sourced from the United States and Europe
- Starting in 2024, the facility will produce innovative large power output Vertex modules using the state-of-the-art 210mm large size wafer and the most advanced technology in the solar industry.

### US MANUFACTURING & CAPACITY

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#### Manufacturing capacity

Including N-type 210 cell technology for utility-scale, commercial, and residential applications

Job creation 1500 direct hires for professional, skilled, high-tech positions

Facility size 1.35 million square feet facility Equal to nearly 24 football fields! "We have long had a vision to manufacture solar products in the United States, and we are proud of the jobs we are creating and the investment we are making in the Wilmer community.

Trina's goal in building this facility is to begin to create an ecosystem of American manufacturing that can serve the burgeoning U.S. solar market."

- Steven Zhu, president, Trina Solar US



## Thank you