Trinasolar

# Vertex NFULLY UPGRADED700W

## FUTURE FORWARD

#### The Way to Lower LCOE





- Low voltage design + Higher power & efficiency -> Higher string power -> Saving on BOS (Investment)
- Lower Temperature Coefficient + Lower Power Degradation -> Higher power generation
- High Reliability -> stable high performance in the 30 years

### **700**W<sup>2</sup> A Milestone in the PV Industry's Development

Trina Solar leads the commercialization of multiple key technologies:

Selective emitters, PERC, TOPCon, dual-glass, MBB, high density packaging, rectangular cells, etc., driving innovative development in the industry.



#### **Pioneer to Launch 700W<sup>+</sup> TOPCon Modules in the Industry**

Trinasolar

May 2023

Global Launch of new generation i-TOPCon Advanced technology

#### **August 2023**

Officially announced mass production of Vertex N 700W<sup>+</sup> TOPCon modules

#### December 2023

Vertex N 700W<sup>+</sup> surged to 720W due to Updrade of i-TOPCon Advanced technology



#### Trina Solar takes lead in the

# **ERA OF SOLAR ENERGY**

**TUV** Certified



echnical Report







# Vertex N NEW WORLD RECORD



700W<sup>®</sup> NEW ERA INNOVATE BEYOND LIMITS!

#### Vertex N 700W<sup>+</sup> i-TOPCon Advanced Technology





















#### **210N All Scenarios Vertex Family**



- Small format module: **2m<sup>2</sup> extreme design**, leading power and efficiency.
- Medium format module: excellent installation and electrical compatibility, best partner for tracker.
- Large format module: ultra high power, "designed for optimal LCOE".

#### Vertex N 700W<sup>+</sup> Maximizes Container Capacity











Product Name	Vertex N	182-78pcs N
Module Size (mm)	2384x1303x33	2465x1134x30
Module Design	210-66 half cut cell 2+2 bifacial dual glass	182 half cut glass Bificial
Cell Technology	i-TOPCon advanced	182 TOPCon
Module Power	720W (+13.9%)	620W (BL)
Container Utilization Rate	97.6%	81.4%
Container capacity/power	594 pcs = 427,680(+16.5%)	576 pcs = 357,120(BL)

#### Vertex N 700W<sup>+</sup> Compatible with Mainstream Inverters





**Commercial and Industry Roof** 610W or 710W Vertex + String Inverter



Hundreds MW Utility 710W Vertex N + Central Inverter



Mountain and Hilly Land Utility Medium size 610W Vertex + String Inverter

#### Forging Consensus, Shaping the Future

700M



#### Industry Consensus to Build 700W+ Ecosystem

As a major player in solar industry, Trina Solar joined hands with industry partners to accelerate the industrialization of 700W+ and elevate the industry ecosystem.



#### Vertex N 700W<sup>+</sup> i-TOPCon Advanced Technology



#### Trinasolar i-TOPCon Technology Roadmap >>>>



#### Vertex N 700W<sup>+</sup> High Value Recognized by Customers Globally



88MW , China 

45MW Saudi Arabia







0.962MW, China



6.6MW Cambara, Brazil

#### Vertex N 700W<sup>+</sup> Reliability Verification at -43°C Extreme Cold

Testing Site: CTC -Mohe Extreme Cold Test Park

Test modules: Vertex N 700W modules

Test Period: September 2023 - present

Power generation monthly



System energy efficiency ratio

100%

(backside power gain included)

dt







# Reliability Recognized by Authoritative Third-party



#### Vertex N 700W<sup>+</sup> N-type Integration Production Capacity



#### Vertex N 700W<sup>+</sup> Global Vertically Integrated Production Chains







## Leading the way in Smart PV and Energy Storage Solutions