SOLAR PANEL / TRINA SOLAR

Trina Solar Vertex S+ 445W

TSM-445NEG9RC.27

The Vertex S+ collects sunlight at the front and reflected light at the back. Rear-side gains depend on the roof and mounting.



445 W DC	22.3%	30 years
Panel rating	Module efficiency	Performance warranty

For your home

Panel count
A higher wattage per panel can reduce the panel count for a given system size. Roof space and required clearances still determine the layout.

Light from both sides
The front captures direct sunlight. The back can capture light reflected from the roof and surroundings.

Your system

- Panel layout and roof clearances
- Inverter voltage and current compatibility
- Shade and reflected light around the panels

MODEL DETAILS

Specifications & warranty

Trina Solar Vertex S+ 445W · TSM-445NEG9RC.27

Specification	Value
Panel model	TSM-445NEG9RC.27
Rated panel output · STC	445 W DC
Module efficiency · STC	22.3%
Cell technology	N-type i-TOPCon
Construction	Bifacial · dual glass · 144 cells
Voltage at maximum power	44.3 V
Current at maximum power	10.05 A
Open-circuit voltage	52.6 V
Short-circuit current	10.71 A
Pmax temperature coefficient	−0.29%/°C
Dimensions · H × W × D	1,762 × 1,134 × 30 mm
Product warranty	Up to 25 years
Performance warranty	30 years · warranty terms apply

Warranty

Up to 25 years of product coverage and a 30-year performance warranty.

Panel STC ratings are laboratory values; actual output varies with the installation and conditions.

Original sources

Trina Vertex S+ manufacturer data sheet