



## Power Beyond Solar

The World Leading PV and Smart Energy IoT Total Solution Provider



Trina Solar  
Official Website



Vertex Product  
information

For more information regarding Vertex module,  
please follow our social media accounts or  
scan the QR codes to visit us at our website.

# Vertex 600W+

## BEST FIT FOR LANDSCAPE



### ULTIMATE STRING POWER

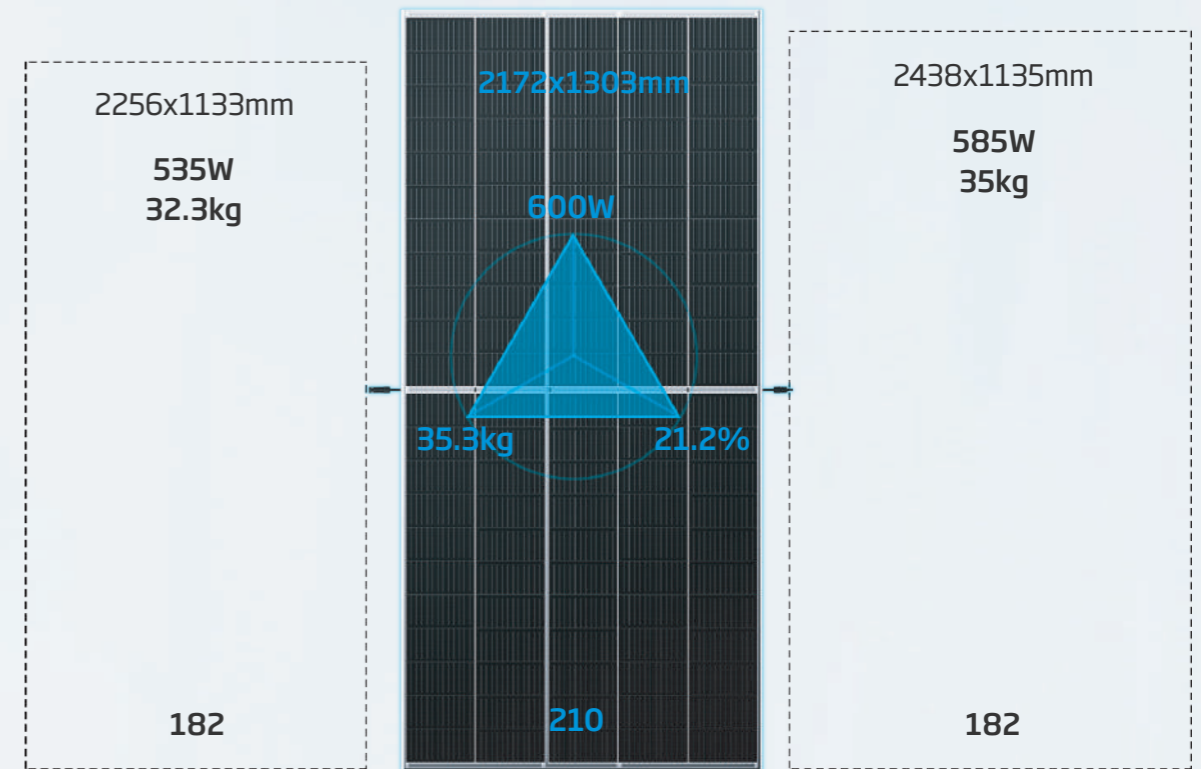
- 37% higher string power

### MOST EFFICIENT COST-SAVING

- 12.68 c USD/W BOS reduction



# Introduction of Vertex 600W

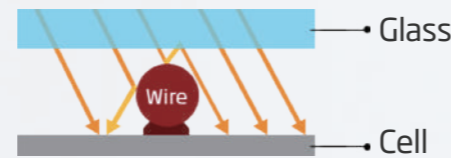
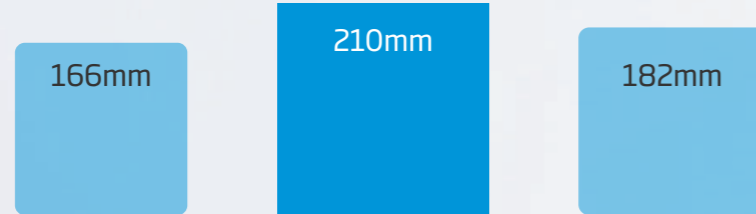


Vertex 600W module size: 2172x1303x35mm  
 Weight: 30.9kg(Monofacial)/35.3kg(Bifacial)

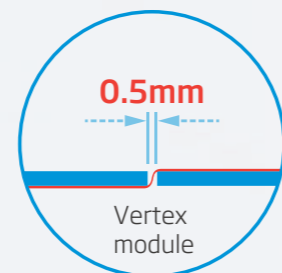
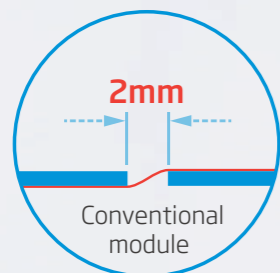
	182	182	Vertex
Power (W)	535~540	585	600+
Module eff.	21.1%	21.1%	21.2%
Weight (kg)	32.3	35	35.3
Length (mm)	2256	2438	2172
Width (mm)	1133	1135	1303
Area (m <sup>2</sup> )	2.56	2.77	2.83
Isc (A)	13.85	13.87	18.4
Voc (V)	49.5	53.2	37.9
Per container (pcs)	620	496	620
Power in Per container (W)	334,800	290,160	341,000

# 210, The Future from Now On!

Vertex module with 600W+ power and 21.2%+ efficiency

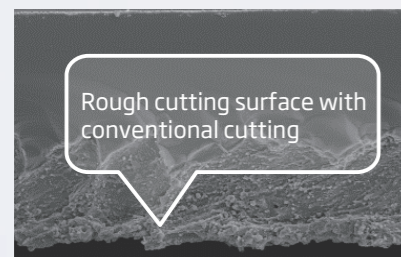


Multi-busbar technology, improving optical utilization rate with higher electricity performance, Module power increase **2~3%**, efficiency increase **0.4~0.6%**

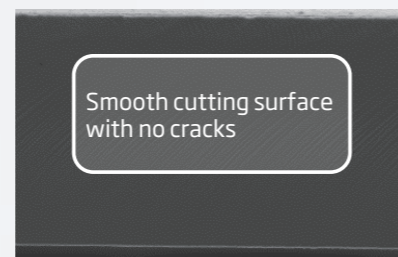


High density encapsulation technology, optimizing power output with good balance between reliability and efficiency, module efficiency increase **0.2~0.3%**

## Non-destructive Cutting(NDC) Technology



Cross-section from conventional cutting



Cross-section from NDC

Achieving better cell strength, lower micro-cracks risk for better product reliability

# LOWER VOLTAGE BRINGS HIGHER STRING POWER

# 37%

Module Type	String Module Number	Module Pmax	String Power	Higher Power
<b>210</b>	<b>32</b>	<b>600W</b>	<b>19,200</b>	<b>37%</b>
182	24	585W	14,040	-

## 600W

String Power  
**19,200W**



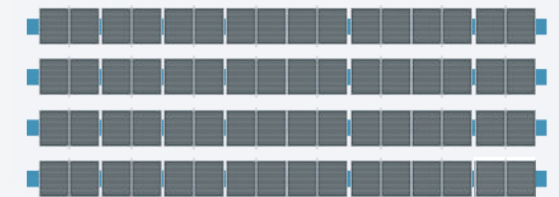
32pcs/string(4x8)



Foundation Pile  
10 piles/String  
**520 Pile/MW**

## 585W

String Power  
**14,040W**



24pcs/string(4x6)



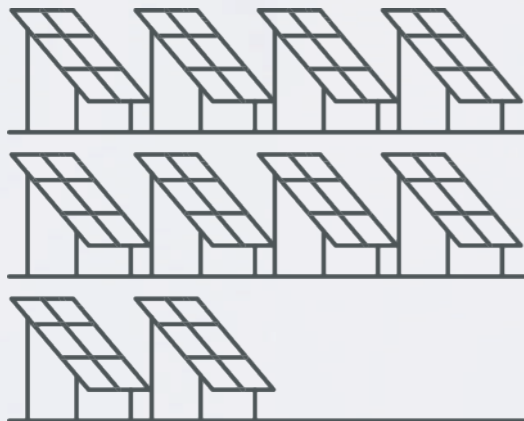
Foundation Pile  
8 piles/String  
**570 Pile/MW**

## 600W

Rack Steel  
45ton/MW

Cable length  
2.1km/MW

Total Number of  
Racks  
782

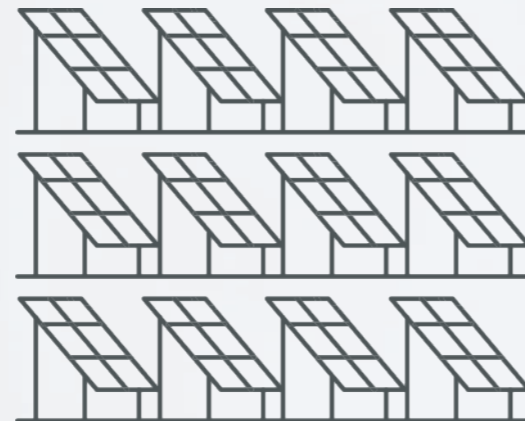


## 585W

Rack Steel  
46.2ton/MW

Cable length  
2.8km/MW

Total Number of  
Racks  
1070



### 600W VS 585W Higher String Power Brings Lower Cost

## BOS reduction

# 12.68cUSD/W



### Case study

Location: Aomori, Japan  
Project Capacity: 15MW DC  
Inverter: 1500V  
DC/AC Ratio: 1.5

## 600W VS 585W

String



-24.8%

Mounting structure



-8.6%

Cable



-24.8%

PV System installation Cost



-17.9%

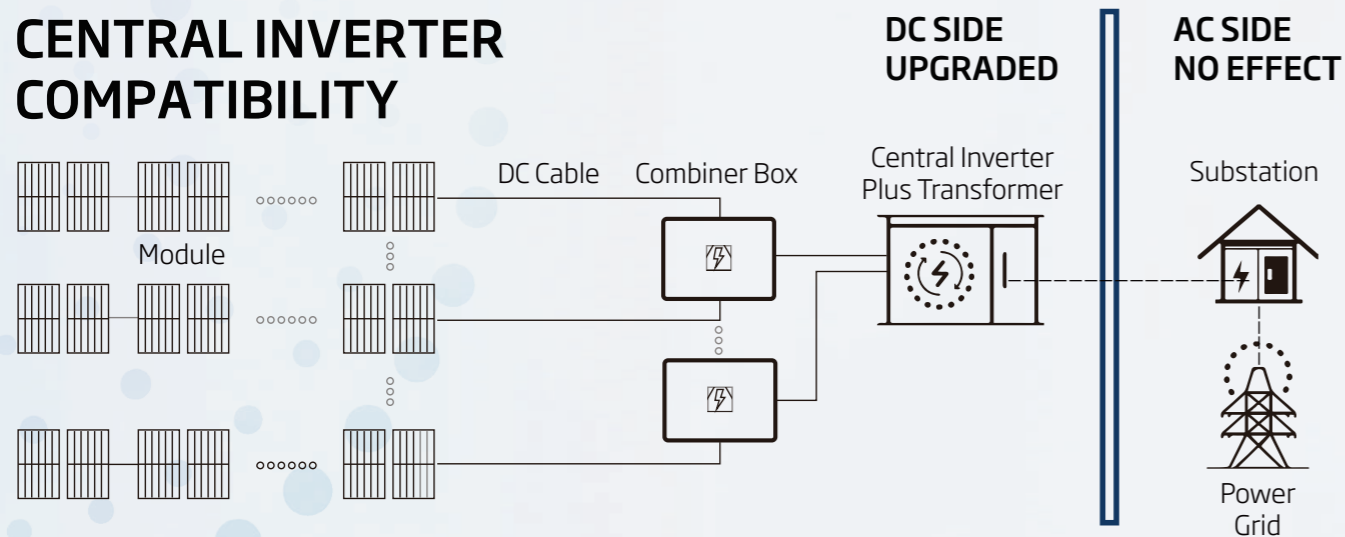
	182	182	Vertex
Power (W)	535	585	600+
Combiner box	1.33	1.33	1.06
Mounting Structure	11.88	11.11	10.86
DC conductor (6 mm <sup>2</sup> cable & MC4 connectors)	8.68	8.93	6.53
PV System Installation	56.91	56.48	46.72
Total	78.8	77.85	65.17
BOS Gap(c USD/W)	-	-0.95	-13.63

\*Source DNV GL: Trina Vertex One-in-Portrait BOS & LCOE Calculation.

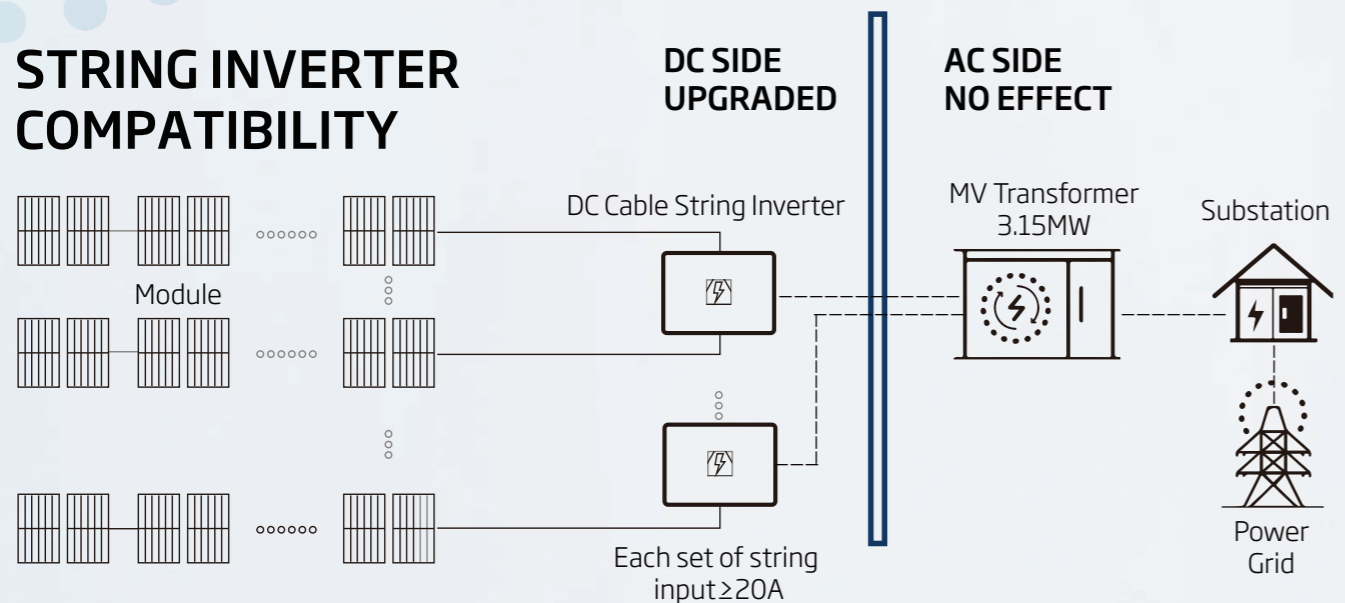
# Ecosystem is Completely in Place

TYPE		BRAND	MODEL
INVERTER	Central	SUNGROW	1600/2500/3125KW
		SUNGROW	SG225HX/SG250HX
	String	HUAWEI	SUN2000-196KTL-H0/SUN2000-196KTL-H3
		SMA	Sunny Tripower 150-20
		SINENG	SP-225-H/SP-250K-H
COMBINER BOX		LongMax, Bentek, ConnectPV Shoals, SolarBOS	1500V High Current
CABLE		4MM <sup>2</sup> /6MM <sup>2</sup>	

## CENTRAL INVERTER COMPATIBILITY

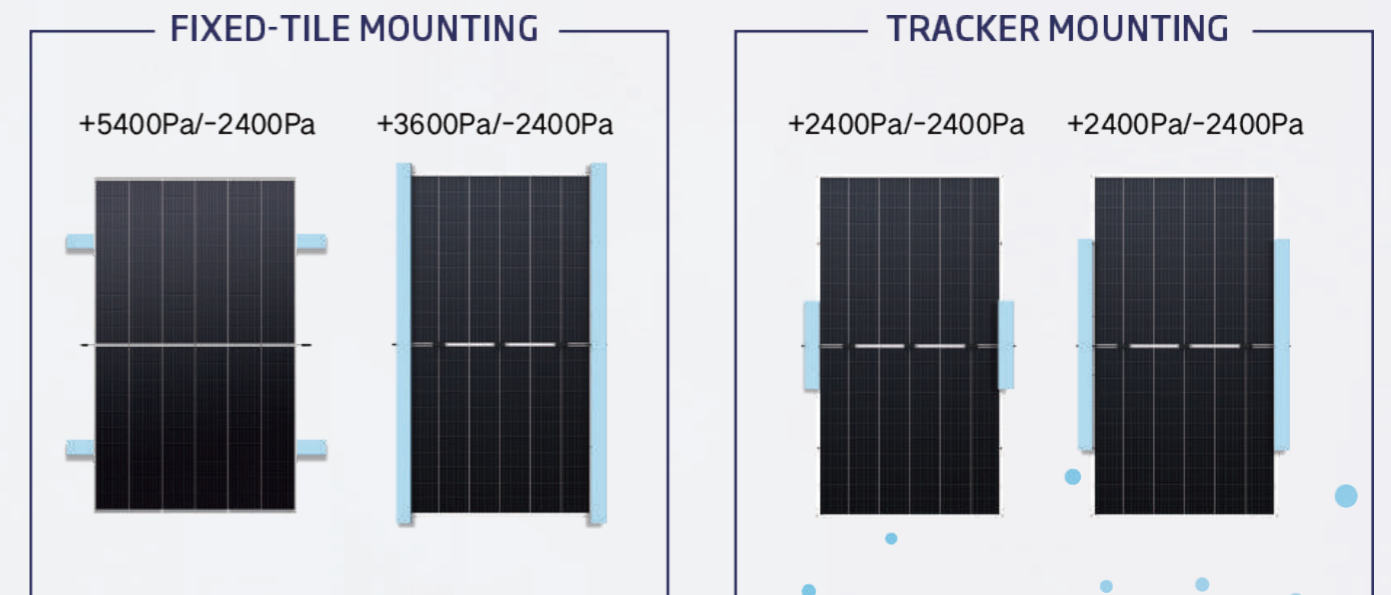


## STRING INVERTER COMPATIBILITY



# Mechanical Loading

Compatible with Fixed-tilt and Tracker



Company Name	Brand/Product Type	210 module compatibility
Arctech Solar Holdings Co., Ltd.	Skyline/Skysmart II	✓
Array Technologies Inc	DuraTrack HZ v3	✓
GameChange Solar LP	GENIUS TRACKER™ 1P/ GENIUS TRACKER™ 2P	✓
IDEEMATEC Deutschland GmbH	H4PLUS™	✓
Nextracker Inc.	Nextracker products	✓
PV HARDWARE SOLUTIONS, S.L.U	Independent row: Monoline™ (all its versions 1V, 3H and 2V); Multi-row: Axone™, Axone Duo™	✓
SOLTEC ENERGIAS RENOVABLES S.L.	SF7 & SF8	✓
Trina Solar Co., Ltd	TrinaTracker (Vanguard™/Agile™)	✓
FTC Solar	Voyager/Voyager+	✓
Soltigua	Soltigua products	✓

**Vertex**

