

Vertex **550W+**

THE FLAGSHIP MODULE FOR ALL SCENARIOS

Vertex

ULTIMATE STRING POWER

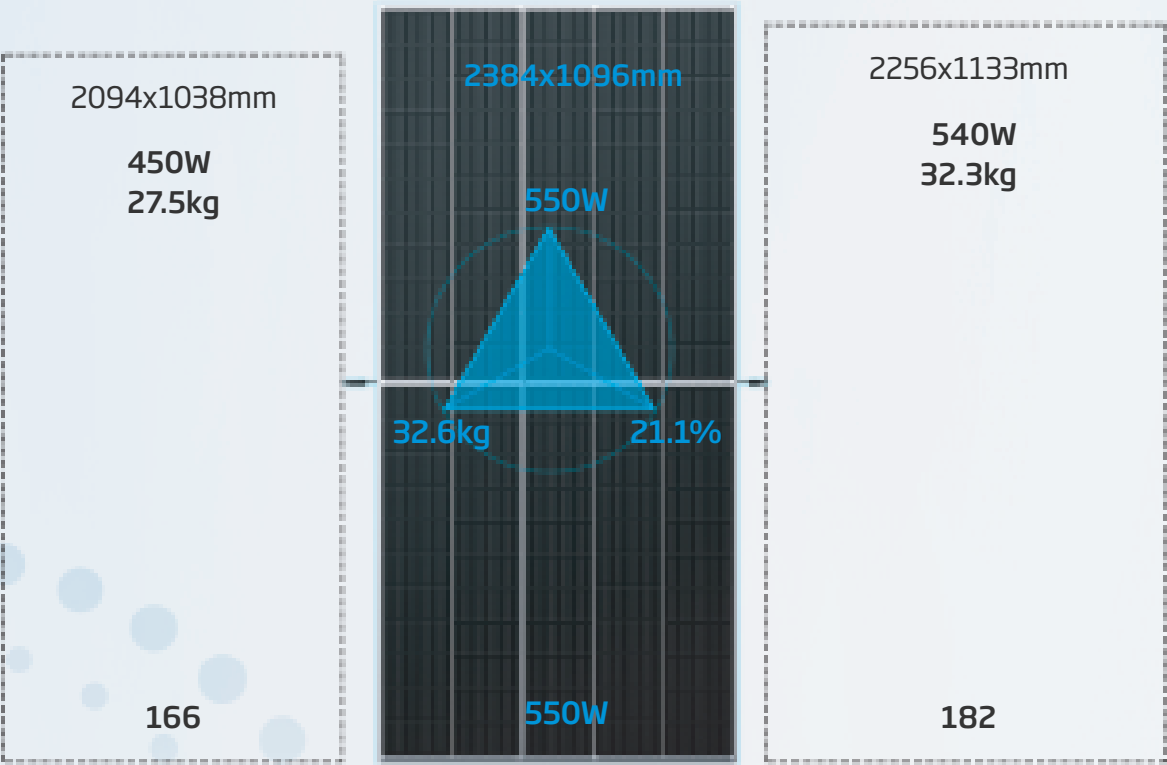
- **32%** higher string power

MOST EFFICIENT COST-SAVING

- **1.29 c USD/W** BOS reduction



Introduction of Vertex 550W

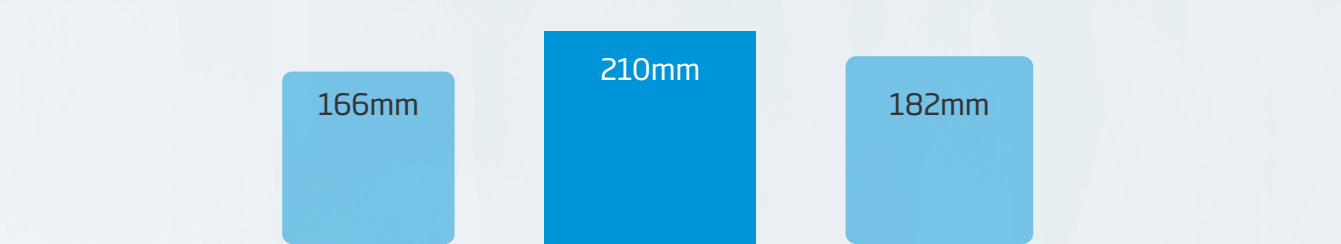


Vertex 550W module size: 2384x1096x35mm
Weight: 28.6kg(Monofacial)/32.6kg (Bifacial)

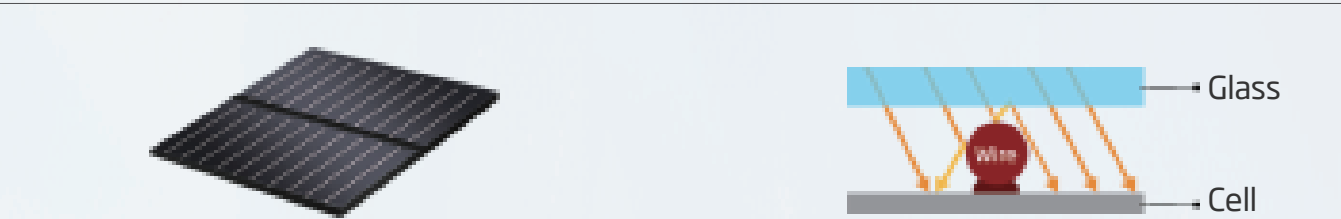
	166	182	Vertex
Power (W)	450	535~540	545~550+
Module eff.	20.7%	21.1%	21.1%
Weight (kg)	27.5	32.3	32.6
Length (mm)	2094	2256	2384
Width (mm)	1038	1133	1096
Area (m²)	2.17	2.56	2.6
Isc (A)	11.58	13.85	18.4
Voc (V)	49.6	49.5	37.9
Per container (pcs)	660	620	620
Power in Per container (W)	297,000	334,800	341,000

210, The Future from Now On!

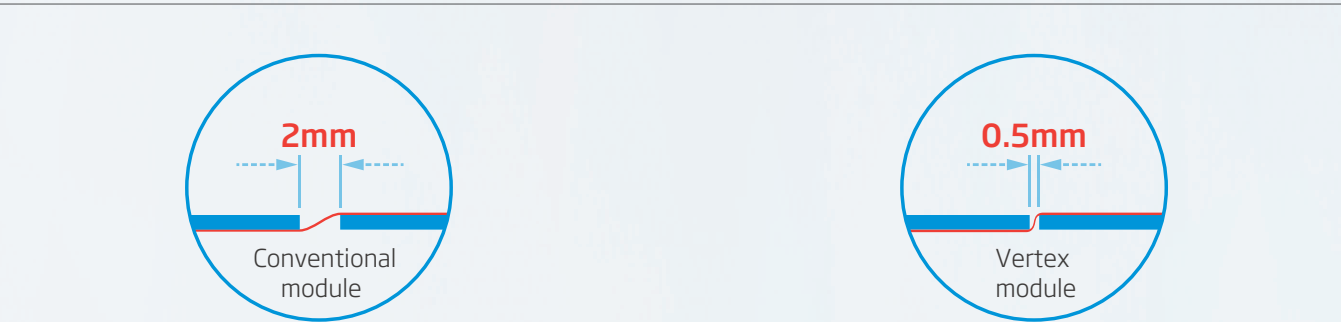
Vertex module with 550W+ power and 21.2%+ efficiency



The most advanced silicon product in photovoltaic industry

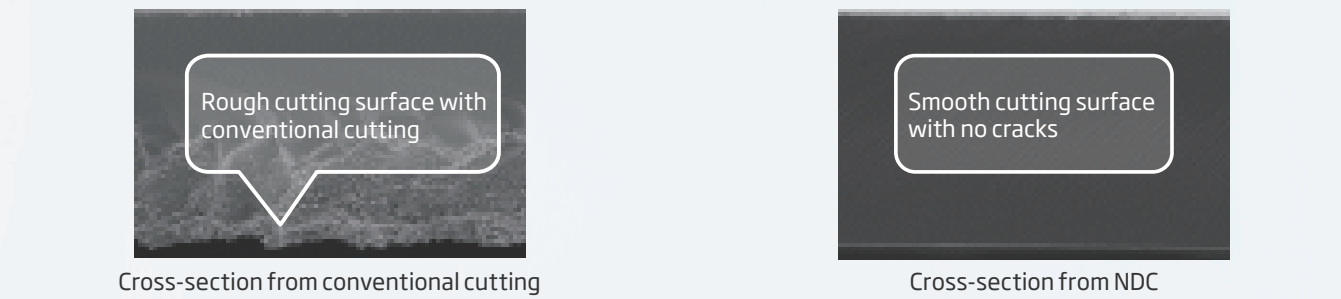


Multi-busbar technology,improving optical utilization rate with higher electricity performance,
Module power increase 2~3%, efficiency increase 0.4~0.6%



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



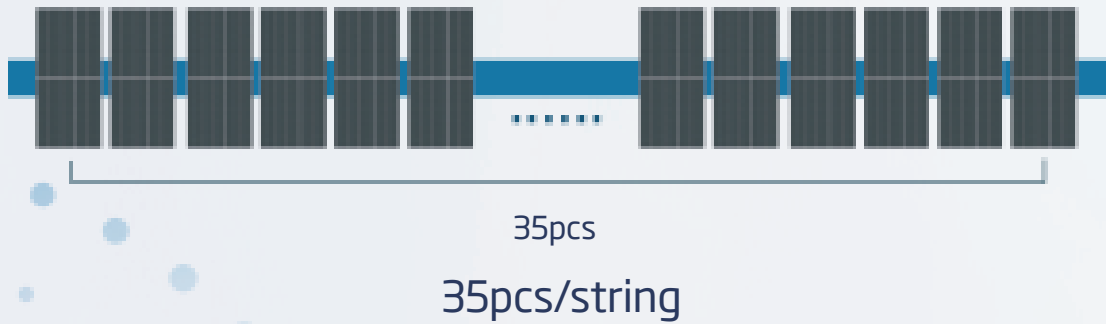
Achieving better cell strength, lower micro-cracks riskfor better product reliability

LOWER VOLTAGE BRINGS
HIGHER STRING POWER

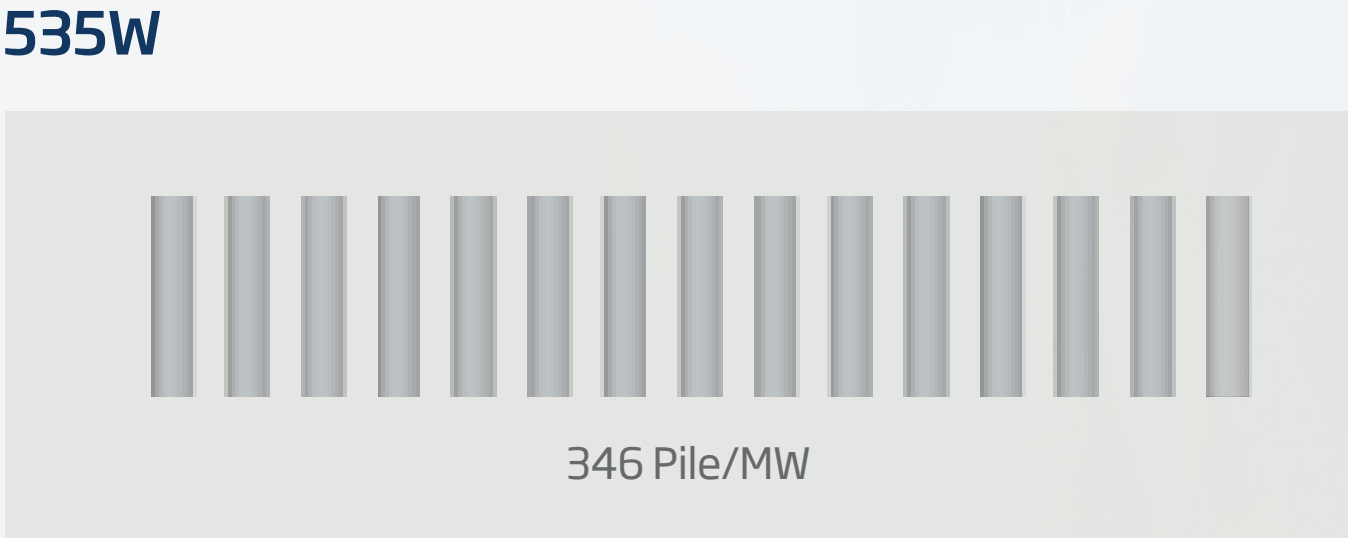
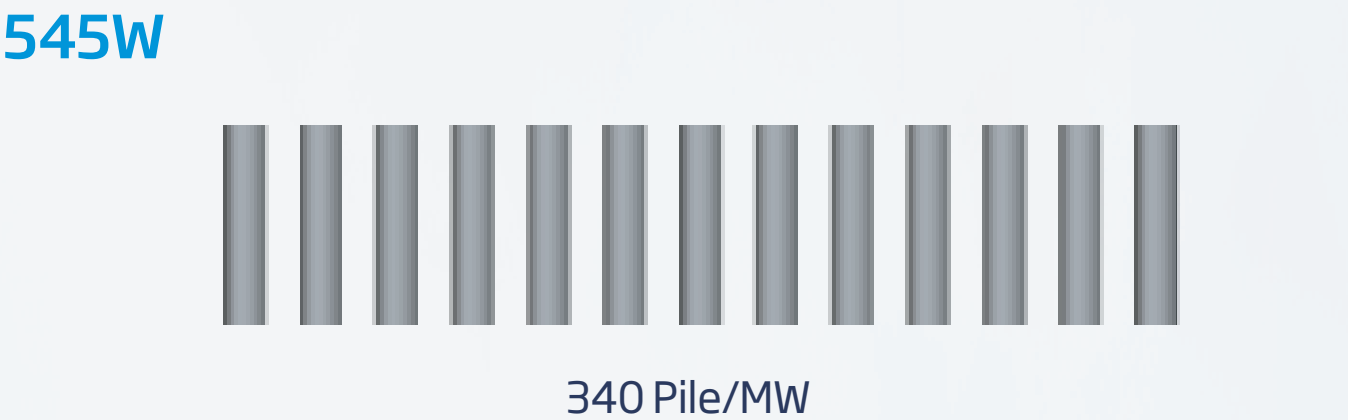
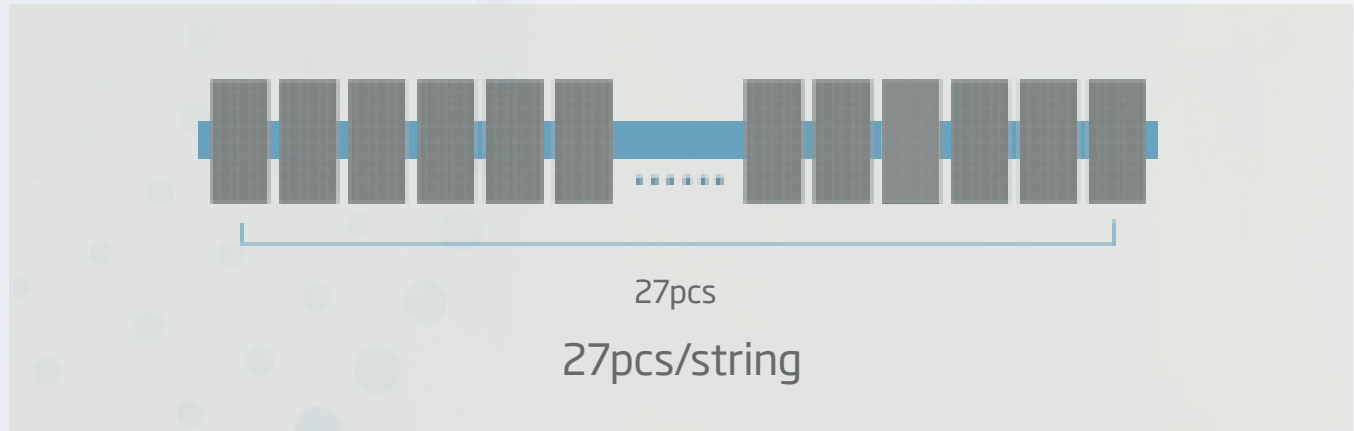
32%

Module Type	String Module Number	Module Pmax	String Power	Higher Power
182	27	535W	14,445	-
210	35	545W	19,075	32%

545W String Power 19,075W



535W String Power 14,445W



545W

Tracker length
2.008km/MW

Cable length
2.5km/MW

535W

Tracker length
2.116km/MW

Cable length
3.5km/MW

545W VS 535W Higher String Power Brings Lower Cost

BOS Cost Reduction

1.29 cUSD/W



Case study
Location: TEXAS,US
Project Capacity: 110MW DC
Inverter: 1500V
DC/AC Ratio: 1.1

545W VS 535W

String



-24%

Tracker



-5%

Cable



-34%

Cable & Tracker installation



-10.3%

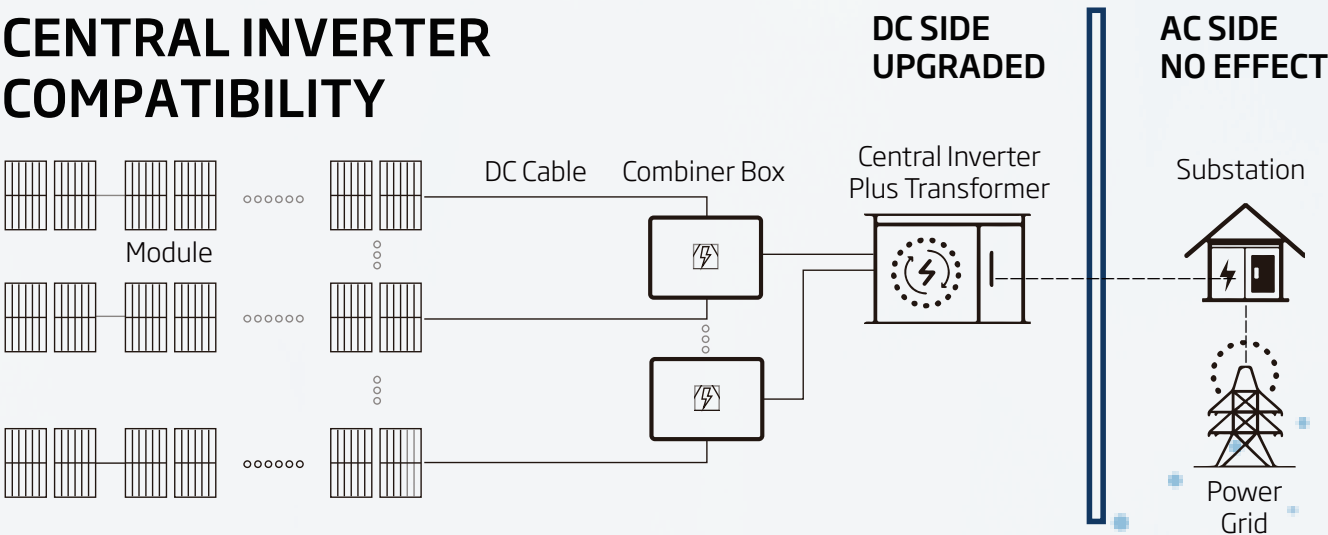
	166	182	Vertex
Power (W)	450	535	545
Transport Modules	1.27	1.07	1.05
DC trenching, wiring, cable	3.37	2.75	1.81
DC installation	0.73	0.6	0.39
Tracker with piles	12.6	11.24	11.15
Tracker mounting	2.05	1.72	1.69
Transport tracker	0.12	0.1	0.1
Total	20.14	17.48	16.19
BOS Gap(c USD/W)	-	-2.66	-3.95

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

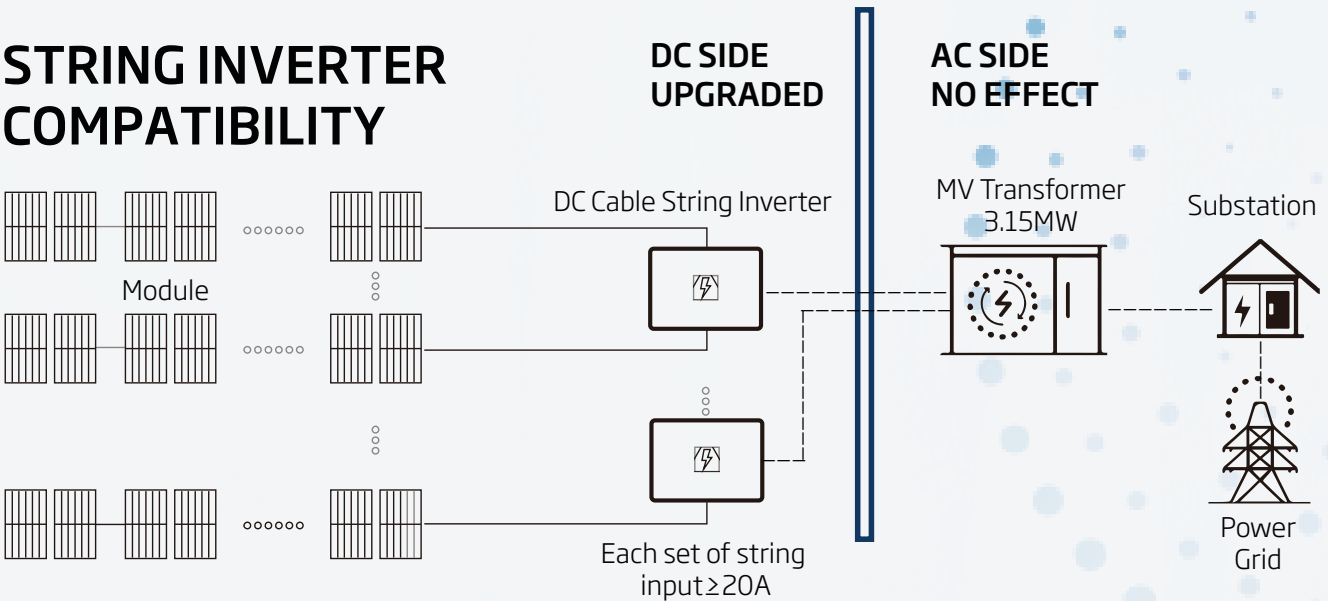
Ecosystem is Completely in Place

TYPE	BRAND		MODEL
INVERTER	Central	SUNGROW	1600/2500/3125KW
	String	SUNGROW	SG225HX/SG250HX
		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	4MM²/6MM²		

CENTRAL INVERTER COMPATIBILITY

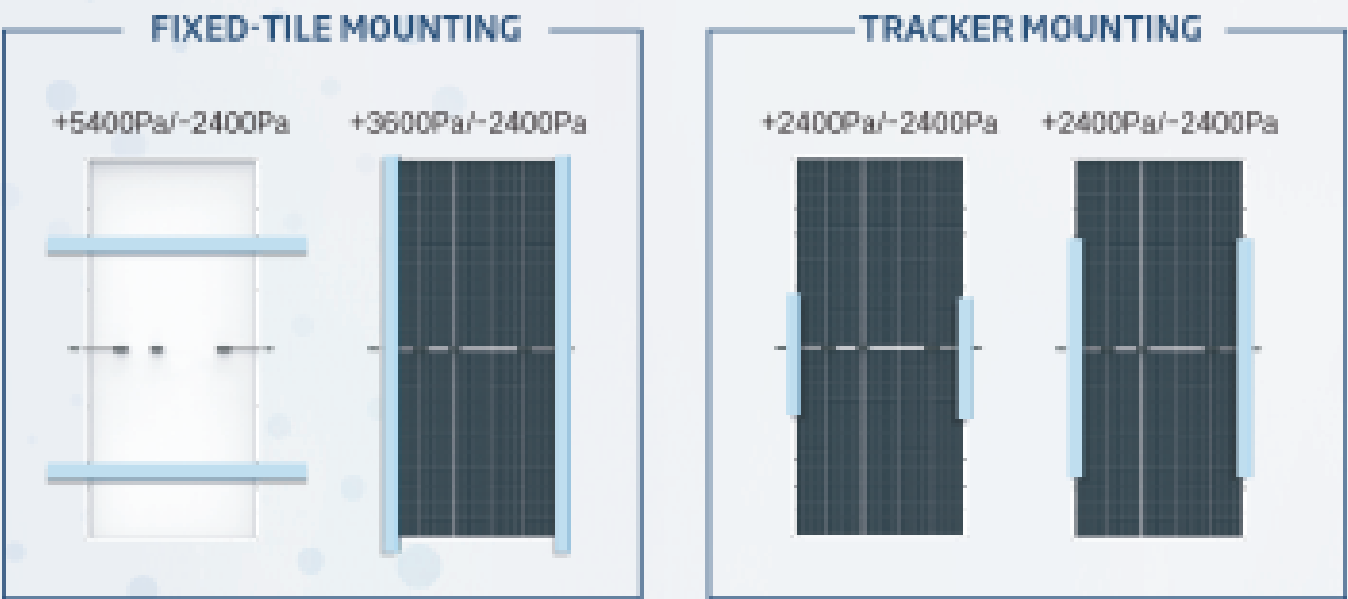


STRING INVERTER COMPATIBILITY



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	✓

