Trinasolar
天合光能

Vertex 至尊

Tracker Compatibility Whitepaper for Trina Solar 210 Vertex Modules

550W+ 510W+ 670W 410W+ 600W+

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Ecosystem of Trackers for 210 Modules

On February 20, 2021, Chinese photovoltaic media platforms such as *SolarZoom, Solarbe, Chinese Energy, Mole PV, and Energy Trend* published an article titled "Trackers closely follow 210 modules, ushering in an era of affordable solar power". This was followed by subsequent announcements by the top 8 tracker brands in the world of their suitability for being used with 210mm modules. The fitting of trackers to the 210 modules represents a strong endorsement of the 210 modules by some of the world's leading photovoltaic industry players and their support for the joint promotion of affordable photovoltaic applications globally. The adaptation to the ultra-high-power 210 modules will also increase trackers added value in their system integration and achieve the 1+1>2 effect by reducing costs and increasing efficiency in different scenarios.

As of October 2021, 14 tracker suppliers from around the world have launched tracking systems to match the ultra-high-power 210 modules. These 14 suppliers have shipped more than 90% of the worldwide shipments and have expertly fitted Trina Solar's Vertex modules.

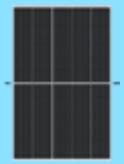
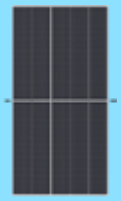
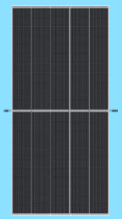
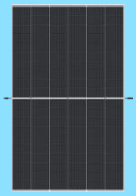
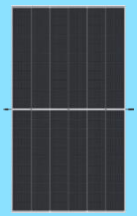
The following suppliers (in alphabetical order) provide trackers that are compatible with the ultra-high-power 210 modules.

1 Family of Trina Solar Module Products

Trina Solar's Vertex series photovoltaic modules include two type of products: monofacial backsheet and bifacial dual-glass modules, both with 210-mm solar cells. Vertex modules can be widely used in utility-scale, commercial & industrial (C&I) and residential scenarios and their power output can reach a maximum of 670 W.

Conventional photovoltaic modules typically use 6×10 or 6×12 layouts, but Trina Solar has creatively introduced the additional 5×8, 5×10, 5×11, 6×10, and 6×11 layouts for Vertex modules based on the characteristics of 210-mm silicon wafers. These layout designs can balance the electrical performance parameters, optimize area and weight, improve installation compatibility and design, and avoid additional costs increase and supply constraints of key materials such as glass.

Table 1 The Vertex modules currently available for sale from Trina Solar.

Module type	Vertex S DE09 series	Vertex DEx18 series	Vertex DEx19 series	Vertex DEx20 series	Vertex DEx21 series
Layout design	5x8	5x10	5x11	6x10	6x11
Dimensions (mm)	1754×1096	2187×1102	2384×1096	2172×1303	2384×1303
Power range	390−410 W	485−510 W	530−555 W	580−605 W	635−670 W
Applications	Residential, C&I	Residential, C&I	All scenarios	All scenarios	All scenarios
Module picture					

When it comes to selecting the most suitable modules to be used with trackers, Trina Solar recommends the use of bifacial modules from the Vertex series such as DEG19C.20, DEG20C.20, and DEG21C.20. Using bifacial dual-glass modules with trackers can effectively increase the system energy yield by 5% to 30% (depending on the ground reflectance conditions or albedo) compared to monofacial modules installed in fixed-tilt mounting structures.

Figure 1 Vertex 210 bifacial modules with trackers

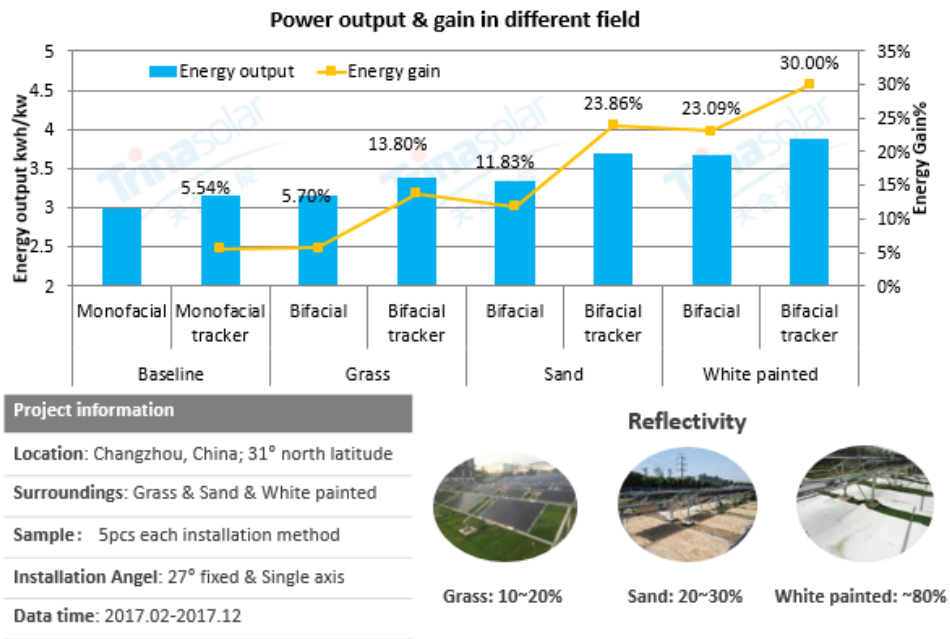


Figure 2 Verification of energy gain for bifacial modules with trackers

2 Scope

The photovoltaic industry has undergone a remarkable evolution in the past two years. The efficiency and costs of PV power plants have greatly improved, and the cost of electricity per kilowatt-hour has dropped to values that are competitive against traditional fossil sources. The mass production of 600W+ ultra-high-power modules, with their innovative low-voltage design and high-power strings, have further helped the owners reduce Balance of Systsem (BOS) and the Levelized Cost of Energy (LCOE) but to achieve these lower BOS and LCOE values, it is necessary to upgrade some plant components to better suit ultra-high-power modules.

To dispel owners' and designers' concerns about increased module size and weight, several tracker manufacturers have verified the effects of various application scenarios on the modules and trackers through comprehensive experimental design and load testing to ensure that the design can meet both IEC and UL standards simultaneously and protect owners' investment interests.

This white paper focuses on the compatibility and configuration analysis of the main trackers in the market with Vertex bifacial modules.

Table 2 Product parameters of DEx19, DEx20, and DEx21 bifacial modules

Parameters/module type	DEG19C.20	DEG20C.20	DEG21C.20
Maximum power output	550 W	600 W	670 W
Open circuit voltage	38.1 V	41.7 V	46.3 V
Short circuit current	18.39 A	18.42 A	18.55
Temperature coefficient of Voc	−0.25%/℃	−0.25%/℃	−0.25%/℃
Module length	2384 mm	2172 mm	2384 mm
Module width	1096 mm	1303 mm	1303 mm
Frame thickness	35 mm	35 mm	35 mm
Module weight	32.3 kg	35.3 kg	38.7 kg

The configuration and compatibility analysis of trackers described below are for reference only. The design of Tracker must take into account the specifics of the site and must be performed by qualified personnel.

The conditions considered for the analysis are as follows:

Module model	DEG19C.20, DEG20C.20, and DEG21C.20 series bifacial modules
Tracker	1P and 2P single-axis tracker system (see figure below for details) *Note: There is no compatibility issues between 210 series modules and fixed tilt racking, and compatibility analysis is not required.*
Reference ambient temperature	−20℃ to 30℃ *Note: This temperature range covers the ambient temperature of most of the areas where photovoltaic power plants are located.*
Maximum system voltage	1500 V

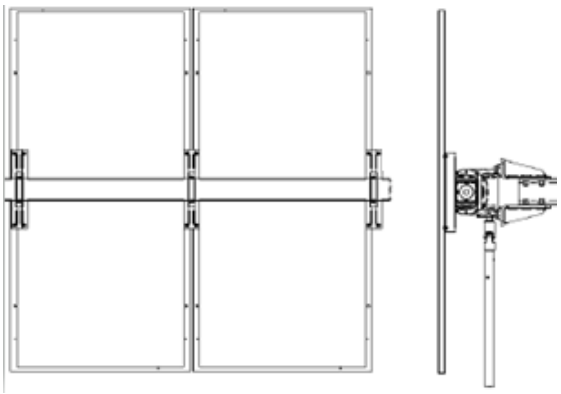


Figure 3 Schematic diagram of 1P single-axis tracker system

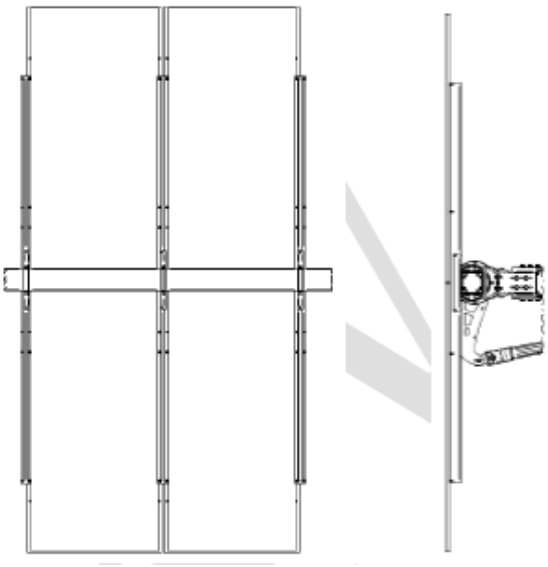


Figure 4 Schematic diagram of 2P single-axis tracker system

Table 3 Product descriptions of several tracking manufacturers

Company	Product Brand	Type
ARCTECH 中信博	Skyline/Skyline II	1P
	Skysmart II	2P
ARRAY TECHNOLOGIES	DuraTrack HZ v3	1P
Clenergy	D1P	1P
	D2P Pro	2P
FTC SOLAR	Voyager/Voyager +	2P
GAMECHANGE SOLAR REPOWERING THE PLANET	GENIUS TRACKER™ 1P	1P
	GENIUS TRACKER™ 2P	2P
国瑞能 GRACE SOLAR	Independent Single Row/ Duo-rows Linkage Tracker	1P
	Multi-point Drive 2P Tracker	2P
IDEEMATEC	H4^{PLUS} ™	2P
	L-Tec	2P
nextracker A Flex Company	Horizon	1P
保威新能源 POWERWAY	PowerFit/PowerFit-DUO	1P
	PowerFit-Blade	2P
PVH	Axone Duo™	1P
	Monoline™	2P
Solar Steel Gonvarri Industries	Tracsmart +	1P/2P
Soltec	SFOne	1P
	SF7 & SF8	2P
STInorland	STI-H250/STI-H1250	1P
TrinaTracker	Vanguard™/Agile™	1P
	Vanguard™	2P

In order to provide better services to customers, Trina Solar has released a Trina Solar PV Project Design Tool *(link: pvd.trinasolar.com)*. The database contained in the Design Tool will be dynamically updated as modules and trackers technology evolves. At the moment, the database covers 14 mainstream trackers manufacturers in the world, with about 30 models. Some trackers may not have been included, so we welcome more trackers manufacturers to join the 600W+ ecosphere to provide customers with more valuable products and services. The following product information about the trackers may not be the most updated, so the readers are encouraged to contact Trina Solar for any inquiries.

3 210 Vertex modules and trackers compatibility

The main considerations for trackers design include tracker length, chord length and height. The tracker length is mainly related to the number of modules in a string as a function of different ambient temperatures and the module width. When the length of the tracker increases, it is necessary to evaluate the effects on the anti-torsion performance of the tracker. The tracker chord length is mainly related to the module length. When the tracker chord length increases, it is necessary to evaluate its impact on the load on the windward surface and the aerodynamic effect of the wind on the tracker. When designing the tracker height, the height from the ground to the center of the main axis at a given angle of inclination is primarily considered. As the tracker height increases, it is necessary to assess its effect on the lateral load and on the column design.

The stability of the combination of the module and the tracker must be evaluated with the combined static and dynamic loads. Several tracker manufacturers have employed wind tunnel tests and comprehensive verifications to adapt trackers to 210 Vertex modules and have validated the combination.

As for the compatibility of the installation and the optimal fit of the module and the tracker, the compatibility of the installation must first be ensured and then an optimal fit of the tracker with the module must be determined.

Tracker length configuration and 210 Vertex modules

The length of the tracker is determined by the total number of modules in a single row, which depends on the number of strings that can be accommodated in each tracker's row

and the number of modules per string. Assuming a system voltage of 1500 V and taking into account the number of modules per string at different ambient temperatures, there are different length configurations depending on the chosen tracker and the 210 module.

Table 4 Tracker length for 1P trackers depending on the number of modules per string

1P Tracker installation														
Temp			℃	-20	-15	-10	-5	0	5	10	15	20	25	30
19 serie	string per tracker	width	mod per string(pcs)	35	35	36	36	37	37	38	38	39	39	40
	2 strings	1096	Total Length(mm)	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
	3 strings	1096	Total Length(mm)	117620	117620	120968	120968	/	/	/	/	/	/	/
20 serie	string per tracker	width	mod per string(pcs)	32	32	33	33	33	34	34	35	35	35	36
	2 strings	1303	Total Length(mm)	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
	3 strings	1303	Total Length(mm)	/	/	/	/	/	/	/	/	/	/	/
21 serie	string per tracker	width	mod per string(pcs)	29	29	30	30	30	31	31	31	32	32	33
	2 strings	1303	Total Length(mm)	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
	3 strings	1303	Total Length(mm)	115541	115541	119510	119510	119510	/	/	/	/	/	/

Table 5 Tracker length for 2P trackers depending on the number of modules per string

2P Tracker installation														
Temp			℃	-20	-15	-10	-5	0	5	10	15	20	25	30
19 serie	string per tracker	width	mod per string(pcs)	35	35	36	36	37	37	38	38	39	39	40
	3 strings	1096	Total Length(mm)	60744	60744	60744	64092	64092	64092	64092	64092	67440	67440	67440
	4 strings	1096	Total Length(mm)	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
20 serie	string per tracker	width	mod per string(pcs)	32	32	33	33	33	34	34	35	35	35	36
	3 strings	1303	Total Length(mm)	63984	63984	67953	67953	67953	67953	67953	71922	71922	71922	71922
	4 strings	1303	Total Length(mm)	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	/
21 serie	string per tracker	width	mod per string(pcs)	29	29	30	30	30	31	31	31	32	32	33
	3 strings	1303	Total Length(mm)	60015	60015	60015	60015	60015	62661	62661	62661	63984	63984	67953
	4 strings	1303	Total Length(mm)	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778

Note: Please confirm the tracker length with the manufacturer based on the actual site of the specific project.

It can be concluded from the above analysis that the current major tracker manufacturers' products are fully compatible with the 210 modules.

Table 6 Compatibility of trackers with 210 modules

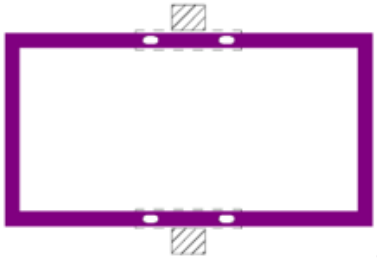
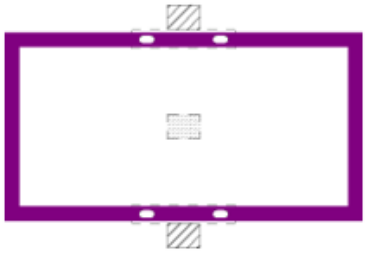
				√: Matched
Company	210@550W	210@600W	210@670W	Matched Date
ARCTECH 中信博	√	√	√	Q1, 2020
ARRAY TECHNOLOGIES	√	√	√	Q1, 2021
Clenergy	√	√	√	Q2, 2021
FTC SOLAR	√	√	√	Q2, 2021
GAMECHANGE SOLAR REPOWERING THE PLANET	√	√	√	Q1, 2021
国瑞能 GRACE SOLAR	√	√	√	Q3, 2021
IDEEMATEC	√	√	√	Q3, 2020
nextracker A Flex Company	√	√	√	Q4, 2020
保威新能源 POWERWAY	√	√	√	Q3, 2021
PVH	√	√	√	Q1, 2021
Solar Steel Gonvarri Industries	√	√	√	Q3, 2021
Soltec	√	√	√	Q1, 2021
STInorland	√	√	√	Q2, 2021
TrinaTracker	√	√	√	Q2, 2020

4 Load assessment for trackers and 210 modules

As the size of the module increases, industry experts often believe that special attention and research should be paid to the load performance of the tracking system. To ensure

that the 210 modules can maintain the same ±2400 Pa load as a conventional module, Trina Solar adopted a non-destructive cutting process for the cells, strengthened the frame thickness and enlarged the cavity of the module, used large washers and briquettes, and optimized the design of the purlins and connectors of the system. As a result, the modules have successfully passed the IEC61215/IEC61730 performance tests.

Table 7. Installation load value for single-axis tracker

Module type	Mechanical loads	Module type	Mechanical loads
 Mounting rails run perpendicular to the long side frame. Distance between mounting holes is 400 mm.		 This installation method is for the tracker with reinforced attachment I* only. Mounting rails run perpendicular to the long side frame. Distance between mounting holes is 400 mm.	
DEG18MC.20(II) DEG20C.20 NEG20C.20 DEG21C.20 NEG21C.20	Uplift load ≤ 2400 Pa Downforce load ≤ 2400 Pa	DEG19C.20 NEG19C.20	Uplift load ≤ 2400 Pa Downforce load ≤ 2400 Pa

Note: For detailed information on combining 210 modules with trackers from different manufacturers, customers should refer to *UM-M-0002 Trina Solar User Manual*. For projects exceeding ±2400Pa load requirements, please contact Trina Solar sales personnel with specific project information

In addition, the test results of a standard static load test and five extended tests (detailed in the *Mechanical Reliability of 670W Vertex Modules White Paper*) comprehensively and thoroughly demonstrate the mechanical performance reliability of the 670W Vertex modules. In the static load tests mentioned above, Trina Solar's 670W Vertex modules passed the standard IEC tests, showing that as a high-power module, the 670W Vertex modules still maintained the same level of mechanical performance as conventional modules.

However, "the same level" was evidently not what Trina Solar was looking for. In recent years, the frequent occurrence of extreme weather events, such as strong winds, blizzards and hail, has brought unprecedented challenges to photovoltaic modules all over the world. Faced with today's extreme weather, Trina Solar has conducted a number of extended tests based on the IEC standards.

In the extended tests, the "uneven snow load" test simulated the uneven pressure caused by heavy snowfall on the surface of the module, especially owing to excessive snow accumulation near the bottom of the module. Under the extreme pressure of 7000 Pa, which is equivalent to 2.8 meters of snow accumulation, the power attenuation of the 670W Vertex module was only 0.56%. The "extreme low temperature load test" exerted a static load of 5400 Pa on the front side and 2400 Pa on the back side of the module at an extremely low temperature of −40°C. The test results show that the EL of the 670W Vertex module had not changed, and the power attenuation was only 0.11%. The "hail impact" test simulated the impact of hail of different sizes on the photovoltaic module, and the 670W Vertex module successfully survived the impact of 35-mm hail.

In the "Multiple dynamic mechanical load" test of screw-mounted modules, the 670W Vertex module exhibited a load-bearing capability several times that the IEC standard. For 670W Vertex modules installed with pressure blocks, 20,000 cycles of a dynamic load test at ±1500 Pa resulted in no external damage, with the performance completely intact. This was 20 times more stringent than the IEC standard.

In the extreme wind speed test in a wind tunnel, the 670W Vertex module remained intact after reaching a wind speed of 62 meters per second. This is equivalent to surviving an extreme wind speed test of a level-17 wind storm.

These multitude of test results prove that the outstanding performance and reliability of the Trina 210 Vertex 670W module are uniformly recognized and documented, and are leading technology.

To address the extreme weather conditions such as strong winds, heavy snow, hail, and floods, tracker manufacturers have conducted in-depth research and evaluation on system stability. To ensure system stability and improve the performance and safety of the solar power plants, the tracker controller uses a software to make real-time adjustments to the tracker angle based on the wind speed signal received.

5 Analysis of the impact of 210 modules on the system cost

The low voltage and high current design concept of 210 series products can achieve longer strings and thereby reduce the number of strings. This reduces the cost of DC cables in

the system and the corresponding installation costs, thereby reducing the LCOE. This highlights the advantages of the high power generation and low system cost of ultra-high-power 210 modules. In addition, 210 high-power modules can reduce the number of modules required for the project, thereby reducing installation costs, speeding up the progress of the project.

Leading design institutes and authoritative third-party organizations in China and abroad have assessed the cost advantages and benefits in LCOE of Vertex modules. Through these comprehensive and objective third-party comparative system value studies, the great added value of the "low voltage, high string power" design concept was demonstrated to the industry and customers as the results indicate that Trina Solar's 210 Vertex bifacial modules have clear BOS cost advantages and a better LCOE than traditional 166 and 182 bifacial modules.

5.1 DNV assessment and analysis

1P：Spain and the United States. The comparative study was carried out considering a capacity of 100 MW_{AC} and the same DC/AC ratio for all the analyzed modules. In terms of system design, the project adopted a single-row, vertically mounted single-axis tracker (1P) and string inverters. The ground coverage ratio (GCR) was also fixed for all modules to ensure the consistency of the shadow occlusion effect on the two sides of the bifacial modules.

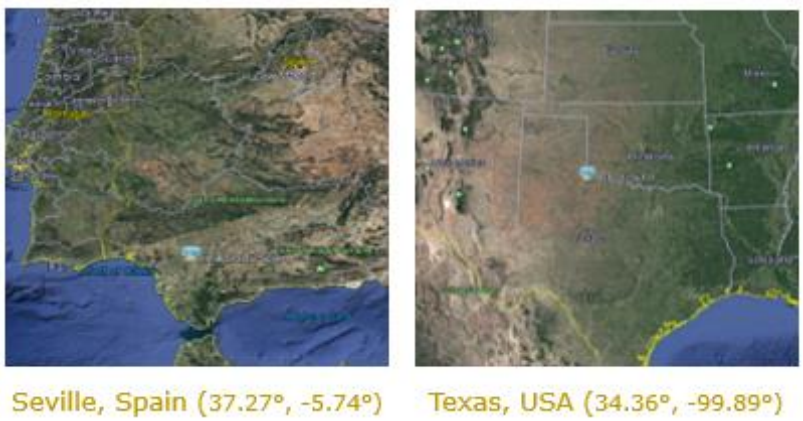


Figure 5. Projects location of 1P design

In the case of the Spanish site, Trina Solar's Vertex 210 bifacial dual-glass 545W module

was able to save 2.16 €c/Wp on the initial investment compared to that of the 166 bifacial dual-glass 450W module, which corresponds to a reduction of approximately 3% of the LCOE. Compared with the 182 bifacial dual-glass 535W module, the saving in initial investment was about 0.2 €c/Wp, corresponding to a saving of about 0.3% in LCOE.

In the US project, Trina Solar's Vertex 210 bifacial dual-glass 545W module could save 4 $c/Wp of the initial investment when compared with that of 166 bifacial dual-glass 450W module, corresponding to a reduction of nearly 3.9% in the LCOE. When compared with 182 bifacial 535W module, Vertex 210 was able to reduce the initial investment by nearly 1 $c/Wp , which corresponds to a reduction of around 0.5% of the LCOE. In terms of tracker and trackers installation costs, Vertex 210 bifacial dual-glass 545W module could save around 12% of such costs compared to the 166 bifacial dual-glass 450W module.

Table 8. Comparison table of 1P calculation results

	Euro €/Wp			USD $/Wp		
	450 W	535 W	545 W	450 W	535 W	545 W
Module		0.1932			0.3200	
Inverter		0.0257			0.0279	
Tracker & mounting	0.1000	0.0896	0.0885	0.126	0.1124	0.1115
EPC cost	0.5268	0.5079	0.5052	0.9533	0.9222	0.9132
Development	0.1137	0.1138	0.1138		0.1567	
CAPEX	0.6406	0.6217	0.619	1.1099	1.0788	1.0699
CAPEX compare 450 W		-2.9%	-3.4%		-2.80%	-3.60%
Land	0.0017	0.0016	0.0017	0.0034	0.0033	0.0033
O&M fee		0.015			0.0082	
Asset management		0.002			0.0015	
OPEX		0.0187			0.0130	
	Euro €/kWh			USD $/kWh		
LCOE	0.0366	0.0357	0.0356	0.0451	0.0437	0.0435
LCOE compare 450 W		-2.5%	-2.8%		-3.0%	-3.5%

The above calculation results apply for existing mainstream 1P trackers. DNV further pointed out that "with further optimization and increase of the tracker length, the 545W Vertex module will bring greater savings in the BOS and LCOE as compared with the other two modules, and the advantages and system value will be further increased."

2P：Spain and the United States. The comparative study was carried out considering a capacity of 100 MWAC and the same DC/AC ratio for all the analyzed modules. In terms of system design, the project adopted a single-row, vertically mounted single-axis tracker (2P) and string inverters. The ground coverage ratio (GCR) was also fixed for all modules to ensure the consistency of the shadow occlusion effect on the two sides of the bifacial modules.

Seville, Spain (37.27°, -5.74°) Texas, USA (34.36°, -99.89°)

Figure 6 Projects location of 2P design

Assessment results of the project in Spain:

Compared with 166 bifacial 450W modules, Trina Solar 210 Vertex bifacial dual-glass 545W module could reduce the BOS by about 6.32%, which corresponds to a decrease of 3.19% in LCOE. When compared with that of 182 bifacial dual-glass 535W modules, its BOS was nearly 1% lower, and its LCOE was better.

Assessment results of the project in the United States:

Compared with 166 bifacial dual-glass 450W modules, Trina Solar 210 Vertex bifacial dual-glass 545W module could save about 6.06% in BOS, corresponding to a reduction in LCOE by about 3.72%. It also saved about 1.2% in BOS when compared with 182 bifacial dual-glass 535W modules, corresponding to a reduction in LCOE of 0.5%. In terms of tracker and tracker installation costs, Vertex 210 bifacial dual-glass 545W module enabled savings of about 14% compared to 166 bifacial modules.

Table 9. Comparison table of 2P calculation results

	西班牙项目 Spain Project Euro €/Wp			美国项目 US Project USD $/Wp		
	450 W	535 W	545 W	450 W	535 W	545 W
组件Module		0.1932			0.3200	
逆变器Inverter		0.0257			0.0279	
支架及支架安装 Tracker & mounting	0.1089	0.0957	0.0932	0.1216	0.1071	0.1043
BOS	0.3164	0.2991	0.2964	0.6118	0.5841	0.5747
BOS较450W节省 BOS compare 450W		-5.47%	-6.32%		-4.53%	-6.06%
EPC费用EPC cost	0.5096	0.4923	0.4897	0.9318	0.9041	0.8947
开发费用Development	0.1070	0.1034	0.1028	0.1584	0.1537	0.1521
资本开支CAPEX	0.6166	0.5957	0.5925	1.0902	1.0577	1.0468
土地Land	0.0017	0.0016	0.0017	0.0031	0.0030	0.0030
运维费用O&M fee		0.015			0.0082	
资产管理Asset management		0.002			0.0015	
运营开支OPEX		0.0187		0.0128	0.0127	0.0128
	Euro €/kWh			USD $/kWh		
度电成本LCOE	0.0364	0.0353	0.0352	0.0452	0.0437	0.0435
度电成本较450W节省 LCOE compare 450 W		-3.01%	-3.19%		-3.28%	-3.72%

DNV report reaffirmed that by increasing the power output of the strings, Trina Solar's Vertex modules manage to reduce a number of costs and achieve the lowest LCOE.

5.2 Fraunhofer ISE assessment and analysis

Fraunhofer ISE, Europe's largest solar energy research institute, has also conducted comparative LCOE studies on projects using double-row 1P trackers depending on the module technology chosen (166, 182 or 210).

The combination of single-axis 1P trackers and bifacial modules makes it possible to achieve a power generation gain of 1+1 > 2, which can significantly reduce the cost of electricity and increase the return on investment.

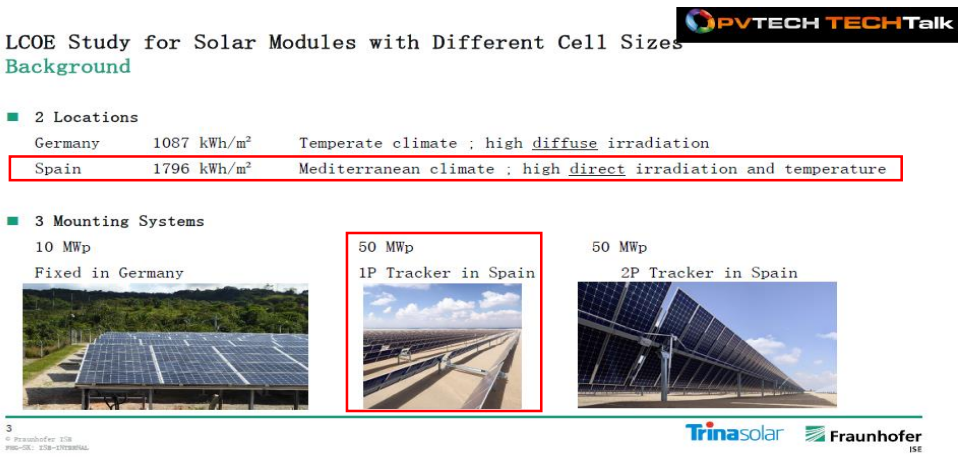


Figure 7. Projects location

The analyzed project is located in Spain and uses a single-axis double-row tracker (1P) and central inverters. The Capital Expenditures (CAPEX) and LCOE of the new generation of 210 and 182 series bifacial modules combined with Trina 1P tracker were improved over those of the traditional 166 modules. In particular, the 182 and 210 series resulted in significant savings in trackers and electrical BOS costs.

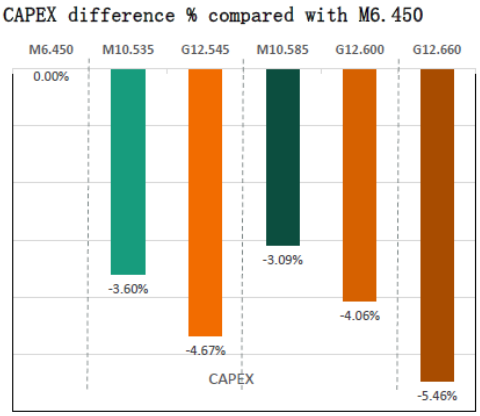
PVTECH TECHTalk

CAPEX & LCOE Results

CAPEX – PV System in Spain: 1-row Tracking

	€ct/Wp					
	M6.450	M10.535	G12.545	M10.585	G12.600	G12.660
Module	25.87	26.12	26.05	26.64	26.14	25.76
Inverter	3.03	3.03	3.03	3.03	3.03	3.03
Civil Works	2.13	2.09	2.08	2.04	2.05	2.06
Electrical system	2.54	2.13	1.97	2.04	1.87	1.81
Tracker & Mounting	12.38	10.75	10.44	10.63	10.79	10.51
CAPEX	51.10	49.26	48.71	49.52	49.02	48.31
Land	0.16	0.15	0.15	0.15	0.15	0.15
OPEX	1.02	0.99	0.97	0.99	0.98	0.97
	€ct/kWh					
LCOE	2.82	2.70	2.67	2.72	2.68	2.65
LCOE comparison		-4.2%	-5.3%	-3.6%	-4.7%	-6.1%

*miscellaneous and soft BOS cost are not shown in the table



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PHG-SK: ISE-INTERNAL

Trinasolar Fraunhofer ISE

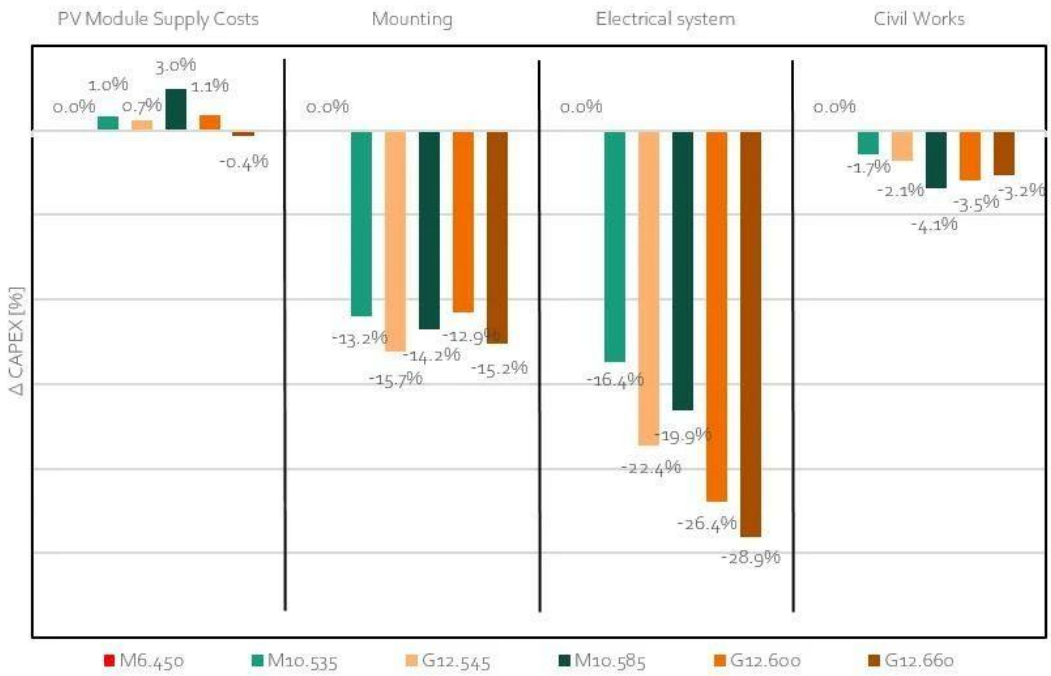

Figure 8. Comparison of 1P assessment results

The comparative analysis also showed that the 210 Vertex modules had the best CAPEX

and LCOE. Compared with the 585W M10 module, the 210 series 660W and 545W modules had a significant better performance; their CAPEX savings could reach 0.81–1.21 €c/Wp, and the LCOE could be reduced by 1.8–2.6%. Compared with the 450W module, the CAPEX saving could reach 2.39–2.79 €c/Wp, and the LCOE reduction could reach 5.3%–6.0%.

Thanks to their innovative low-voltage and high-string power design, Vertex 545W, 600W and 660W modules achieve excellent cost savings in the electrical BOS costs of up to approximately 22.4–28.9% over that of 166 series products.

In terms of cost savings on the trackers, the 210 and 182 modules could save about 13%–15% over M6 modules. Compared to 182 modules, 210 modules with 545W and 660W modules could reduce the trackers cost by 3%, which represents savings of around 0.2–0.3 €c/Wp. The Vertex 660W module also benefits from an innovative packaging system that allows it to improve the amount of kW that can be transported in the same container. This is why its logistics cost is lower than that of the other modules with savings of 0.32 €c/Wp compared to the 182mm 535W module.

Both the 4 mm² and 6 mm² cable selection assumptions for the 210 series modules resulted in lower BOS and LCOE than the 182 or 166m modules. Power plant investors can optimize their cable cross section based on the terrain layout, the irradiance, the electricity tariff and their budget and still benefit from LCOE reductions when using 210 modules.

The comparison showed that the 210 series ultra-high-power modules represented by Trina Solar's Vertex modules benefitted from the low voltage and high string power design, exhibited stable and efficient power generation capacity and presented significant advantages in their reduced CAPEX and LCOE. The 210 ultra-high-power modules could reduce the total number of modules used in the project, reduce the installation work, and speed up the construction progress. Furthermore, the innovative low-voltage design allowed a greater number of 210 Vertex modules to be connected in a string for the given 1500-V system voltage. This significantly increased the single-string power by up to 36% compared with traditional modules, which in turn resulted in cost savings in materials and labor and effectively reduced the initial investment cost.

6 Compatibility and configuration analysis of Vertex modules and trackers from different manufacturers

6.1 Arctech Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Skyline	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	77729	77729	79943	79943	82157	82157	84371	84371	86585	86585	88799
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	84335	84335	86963	86963	86963	89591	89591	92219	92219	92219	94847
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	76451	76451	79079	79079	79079	81707	81707	81707	84335	84335	86963
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.8	42.8	44.2
Skyline II	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	77729	77729	79943	79943	82157	82157	84371	84371	86585	86585	88799
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
						3	单串组件数（pcs） modules per string	35	35	36	36	/	/	/	/	/	/	/
							支架长度（mm） Tracker Length	116474	116474	119795	119795	/	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	/	/	/	/	/	/	/
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	84335	84335	86963	86963	86963	89591	89591	92219	92219	92219	94847
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
						3	单串组件数（pcs） modules per string	30	30	30	30	/	/	/	/	/	/	/
							支架长度（mm） Tracker Length	118500	118500	118500	118500	/	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	54.0	54.0	54.0	54.0	/	/	/	/	/	/	/
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	76451	76451	79079	79079	79079	81707	81707	81707	84335	84335	86963
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.8	42.8	44.2
						3	单串组件数（pcs） modules per string	29	29	30	30	30	/	/	/	/	/	/
							支架长度（mm） Tracker Length	114557	114557	118499	118499	118499	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	/	/	/	/	/	/

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power（W）	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Skysmart II	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	59521	59521	60630	60630	62848	62848	63957	63957	66175	66175	67284
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
						4	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78374	78374	80592	80592	82810	82810	85028	85028	87246	87246	89464
							支架容量（KW/套 set） Tracker Capacity	77.0	77.0	79.2	79.2	81.4	81.4	83.6	83.6	85.8	85.8	88.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63912	63912	66544	66544	66544	67860	67860	70492	70492	70492	71808
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
						4	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	/
							支架长度（mm） Tracker Length	84968	84968	87600	87600	87600	90232	90232	92864	92864	92864	/
							支架容量（KW/套 set） Tracker Capacity	76.8	76.8	79.2	79.2	79.2	81.6	81.6	84.0	84.0	84.0	/
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	58648	58648	59964	59964	59964	62596	62596	62596	63912	63912	66544
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3
						4	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	77072	77072	79704	79704	79704	82336	82336	82336	84968	84968	87600
							支架容量（KW/套 set） Tracker Capacity	77.7	77.7	80.4	80.4	80.4	83.1	83.1	83.1	85.8	85.8	88.4

6.2 Array Technologies Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
DuraTrack HZ v3	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
						3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	117620	117620	120968	120968	/	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	/	/	/	/	/	/	/
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	7719`4	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
						3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	115541	115541	119510	119510	119510	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	/	/	/	/	/	/

6.3 Clenergy (Xiamen) Technology Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
易捷 D1P	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
易捷 D2P Pro	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	60744	60744	60744	60744	64092	64092	64092	64092	67440	67440	67440
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63984	63984	67953	67953	67953	67953	67953	71922	71922	71922	71922
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	60015	60015	60015	60015	60015	62661	62661	62661	63984	63984	67953
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.4 FTC Solar Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power（W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Voyager/Voyager +	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs) modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm) Tracker Length	62724	62724	62724	62724	65006	65006	67288	67288	69570	69570	69570
							支架容量（KW/套 set) Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs) modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm) Tracker Length	65814	65814	68510	68510	68510	71206	71206	73902	73902	73902	73902
							支架容量（KW/套 set) Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs) modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm) Tracker Length	60422	60422	63118	63118	63118	65814	65814	65814	65814	65814	68510
							支架容量（KW/套 set) Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.5 Grace Solar Technology Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
智达 I Independent Single Row Tracker	1P	1500	DEG19C.20	550	1096	2.5	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	98100	98100	100890	100890	103680	103680	106470	106470	109260	109260	112050
							支架容量（KW/套 set） Tracker Capacity	48.1	48.1	49.5	49.5	50.9	50.9	52.3	52.3	53.6	53.6	55.0
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	1500	DEG21C.20	670	1303	2.5	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	96368	96368	99675	99675	99675	102983	102983	102983	106290	106290	109598
							支架容量（KW/套 set） Tracker Capacity	48.6	48.6	50.3	50.3	50.3	51.9	51.9	51.9	53.6	53.6	55.3
智远 Duo-rows Linkage Tracker	1P	1500	DEG19C.20	550	1096	1.5	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	59060	59060	60734	60734	62408	62408	64082	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	28.9	28.9	29.7	29.7	30.5	30.5	31.4	/	/	/	/
	1P	1500	DEG20C.20	600	1303	1	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	42816	42816	44139	44139	44139	45462	45462	46785	46785	46785	48108
							支架容量（KW/套 set） Tracker Capacity	19.2	19.2	19.8	19.8	19.8	20.4	20.4	21.0	21.0	21.0	21.6
	1P	1500	DEG21C.20	670	1303	1.5	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	58021	58021	60005	60005	60005	61990	61990	61990	63974	/	/
							支架容量（KW/套 set） Tracker Capacity	29.1	29.1	30.2	30.2	30.2	31.2	31.2	31.2	32.2	/	/
智信 II Multi-point Drive Tracker	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	60744	60744	60744	60744	64092	64092	64092	64092	67440	67440	67440
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63984	63984	67953	67953	67953	67953	67953	71922	/	/	/
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	/	/	/
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	60015	60015	60015	60015	60015	62661	62661	62661	63984	63984	67953
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.6 IDEEMATEC Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power（W）	组件宽度 Module Width (mm)	组串单元 String per Table	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
									-20	-15	-10	-5	0	5	10	15	20	25	30
H4PLUS ™	2P	1500	DEG19C.20	550	1096	2	10 or 8	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
								支架长度（mm） Tracker Length	191802	191802	157826	157826	162210	162210	166594	166594	170978	170978	175362
								支架容量（KW/套 set） Tracker Capacity	192.5	192.5	158.4	158.4	162.8	162.8	167.2	167.2	171.6	171.6	176.0
		1500	DEG20C.20	600	1303	2	8	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
								支架长度（mm） Tracker Length	166786	166786	171998	171998	171998	177210	177210	182422	182422	182422	187634
								支架容量（KW/套 set） Tracker Capacity	153.6	153.6	158.4	158.4	158.4	163.2	163.2	168.0	168.0	168.0	172.8
		1500	DEG21C.20	670	1303	2	10 or 8	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
								支架长度（mm） Tracker Length	188937	188937	156362	156362	156362	161574	161574	161574	166786	166786	171998
								支架容量（KW/套 set） Tracker Capacity	194.3	194.3	160.8	160.8	160.8	166.2	166.2	166.2	171.5	171.5	176.9
L-Tec	2P	1500	DEG19C.20	550	1096	3 or 2	9 or 8	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
								支架长度（mm） Tracker Length	172621	189001	177553	177553	182485	182485	187417	187417	192349	192349	175363
								支架容量（KW/套 set） Tracker Capacity	173.3	173.3	178.2	178.2	183.2	183.2	188.1	188.1	193.1	193.1	176.0
		1500	DEG20C.20	600	1303	3 or 2	9 or 8	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
								支架长度（mm） Tracker Length	187633	187633	193497	193497	193497	177210	177210	182422	182422	182422	187634
								支架容量（KW/套 set） Tracker Capacity	172.8	172.8	178.2	178.2	178.2	163.2	163.2	168.0	168.0	168.0	172.8
		1500	DEG21C.20	670	1303	3	9	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
								支架长度（mm） Tracker Length	170043	170043	175906	175906	175906	181770	181770	181770	187633	187633	193497
								支架容量（KW/套 set） Tracker Capacity	174.9	174.9	180.9	180.9	180.9	186.9	186.9	186.9	193.0	193.0	199.0

6.7 Nextracker Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Horizon	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2

6.8 Powerway Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
PowerFit	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
						3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	117620	117620	120968	120968	124316	124316	127664	127664	131012	131012	/
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	/

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power（W）	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
PowerFit	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
						3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	127448	127448	131417	131417	131417	/	/	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	/	/	/	/	/	/
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
						3	单串组件数（pcs） modules per string	29.0	29.0	30.0	30.0	30.0	31.0	31.0	31.0	32.0	32.0	33.0
							支架长度（mm） Tracker Length	115541	115541	119510	119510	119510	123479	123479	123479	127448	127448	131417
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3
PowerFit-DUO	1P	1500	DEG19C.20	550	1096	1.5	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	59060	59060	60734	60734	62408	62408	64082	64082	65756	65756	67430
							支架容量（KW/套 set） Tracker Capacity	28.9	28.9	29.7	29.7	30.5	30.5	31.4	31.4	32.2	32.2	33.0
	1P	1500	DEG20C.20	600	1303	1.5	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63974	63974	65959	65959	65959	67943	67943	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	28.8	28.8	29.7	29.7	29.7	30.6	30.6	/	/	/	/
	1P	1500	DEG21C.20	670	1303	1.5	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	58021	58021	60005	60005	60005	61990	61990	61990	63974	63974	65959
							支架容量（KW/套 set） Tracker Capacity	29.1	29.1	30.2	30.2	30.2	31.2	31.2	31.2	32.2	32.2	33.2
PowerFit-Blade	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	60744	60744	60744	64092	64092	64092	64092	64092	67440	67440	67440
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63984	63984	67953	67953	67953	67953	67953	71922	71922	71922	71922
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	60015	60015	60015	60015	60015	62661	62661	62661	63984	63984	67953
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.9 PV HARDWARE Tracker

支架品牌名 Product Brand	支架型号 Tracker type	极限长度 Limiting Length (m)	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
									-20	-15	-10	-5	0	5	10	15	20	25	30
Axone Duo™	1P	80x2	1500	DEG19C.20	550	1096	1.5/2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
								支架长度（mm） Tracker Length	78540	78540	60704	60704	62378	62378	64052	64052	65726	65726	67400
								支架容量（KW/套 set） Tracker Capacity	38.5	38.5	29.7	29.7	30.5	30.5	31.4	31.4	32.2	32.2	33.0
	1P	80x2	1500	DEG20C.20	600	1303	1.5	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
								支架长度（mm） Tracker Length	63944	63944	65929	65929	65929	67913	67913	69898	69898	69898	71882
								支架容量（KW/套 set） Tracker Capacity	28.8	28.8	29.7	29.7	29.7	30.6	30.6	31.5	31.5	31.5	32.4
	1P	80x2	1500	DEG21C.20	670	1303	1.5/2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
								支架长度（mm） Tracker Length	77154	77154	79800	79800	79800	61960	61960	61960	63944	63944	65929
								支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	31.2	31.2	31.2	32.2	32.2	33.2
Monoline+™	1P	100	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
								支架长度（mm） Tracker Length	78540	78540	80772	80772	83004	83004	85236	85236	87468	87468	89700
								支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	1P	100	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
								支架长度（mm） Tracker Length	85092	85092	87738	87738	87738	90384	90384	93030	93030	93030	95676
								支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	1P	100	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
								支架长度（mm） Tracker Length	77154	77154	79800	79800	79800	82446	82446	82446	85092	85092	87738
								支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
	2P	~70	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
								支架长度（mm） Tracker Length	58780	58780	60454	60454	62128	62128	63802	63802	65476	65476	67150
								支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	~70	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
								支架长度（mm） Tracker Length	63694	63694	65679	65679	65679	67663	67663	69648	69648	69648	71632
								支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	2P	~70	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
								支架长度（mm） Tracker Length	57741	57741	59725	59725	59725	61710	61710	61710	63694	63694	65679
								支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.10 Solar Steel Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power（W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (℃)	不同环境温度 Different temperature (℃)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Tracsmart +	1P	1500	DEG19C.20	550	1096	1.5	单串组件数（pcs) modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm) Tracker Length	59030	59030	60704	60704	62378	62378	64052	64052	65726	65726	67400
							支架容量（KW/套 set) Tracker Capacity	28.9	28.9	29.7	29.7	30.5	30.5	31.4	31.4	32.2	32.2	33.0
	1P	1500	DEG20C.20	600	1303	1.5	单串组件数（pcs) modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm) Tracker Length	63944	63944	65929	65929	65929	67913	67913	69898	69898	69898	71882
							支架容量（KW/套 set) Tracker Capacity	28.8	28.8	29.7	29.7	29.7	30.6	30.6	31.5	31.5	31.5	32.4
	1P	1500	DEG21C.20	670	1303	1.5	单串组件数（pcs) modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm) Tracker Length	57991	57991	59975	59975	59975	61960	61960	61960	63944	63944	65929
							支架容量（KW/套 set) Tracker Capacity	29.1	29.1	30.2	30.2	30.2	31.2	31.2	31.2	32.2	32.2	33.2
Tracsmart +	1P Dual row	1500	DEG19C.20	550	1096	3	单串组件数（pcs) modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm) Tracker Length	58780	58780	60454	60454	62128	62128	63802	63802	65476	65476	67150
							支架容量（KW/套 set) Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	1P Dual row	1500	DEG20C.20	600	1303	3	单串组件数（pcs) modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm) Tracker Length	63694	63694	65679	65679	65679	67663	67663	69648	69648	69648	71632
							支架容量（KW/套 set) Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	1P Dual row	1500	DEG21C.20	670	1303	3	单串组件数（pcs) modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm) Tracker Length	57741	57741	59725	59725	59725	61710	61710	61710	63694	63694	65679
							支架容量（KW/套 set) Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3
Tracsmart +	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs) modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm) Tracker Length	58780	58780	60454	60454	62128	62128	63802	63802	65476	65476	67150
							支架容量（KW/套 set) Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs) modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm) Tracker Length	63694	63694	65679	65679	65679	67663	67663	69648	69648	69648	71632
							支架容量（KW/套 set) Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs) modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm) Tracker Length	57741	57741	59725	59725	59725	61710	61710	61710	63694	63694	65679
							支架容量（KW/套 set) Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

6.11 Soltec Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (°C)	不同环境温度 Different temperature (°C)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
SF7	2P	1500	210-550W	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	38360	38360	39456	39456	40552	40552	41648	41648	42744	42744	43840
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	2P	1500	210-600W	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	41696	41696	42999	42999	42999	44302	44302	45605	45605	45605	46908
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	42.0	42.0	42.0	43.2
	2P	1500	210-670W	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	37787	37787	39090	39090	39090	40393	40393	40393	41696	41696	42999
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
SF8	2P	1500	210-550W	550	1096	4	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	76720	76720	78912	78912	81104	81104	83296	83296	85488	85488	87680
							支架容量（KW/套 set） Tracker Capacity	77.0	77.0	79.2	79.2	81.4	81.4	83.6	83.6	85.8	85.8	88.0
	2P	1500	210-600W	600	1303	4	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	83392	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	76.8	76.8	79.2	79.2	79.2	81.6	81.6	84.0	84.0	84.0	86.4
	2P	1500	210-670W	670	1303	4	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	75574	75574	78180	78180	78180	80786	80786	80786	83392	83392	85998
							支架容量（KW/套 set） Tracker Capacity	77.7	77.7	80.4	80.4	80.4	83.1	83.1	83.1	85.8	85.8	88.4
SFOne	1P Dual row	1500	210-550W	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	58088	58088	59184	59184	61376	61376	62472	62472	64664	64664	65760
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	1P Dual row	1500	210-600W	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	62544	85132	87778	87778	87778	90424	90424	93070	93070	93070	95716
							支架容量（KW/套 set） Tracker Capacity	57.6	76.8	79.2	79.2	79.2	81.6	81.6	84.0	84.0	84.0	86.4
	1P Dual row	1500	210-670W	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	57332	75574	78180	78180	78180	80786	80786	80786	83392	83392	85998
							支架容量（KW/套 set） Tracker Capacity	58.3	77.7	80.4	80.4	80.4	83.1	83.1	83.1	85.8	85.8	88.4

6.12 STI Norland Tracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (°C)	不同环境温度 Different temperature (°C)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
STI-H250	1P Dual row	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	58550	58550	60209	60209	61868	61868	63527	63527	65186	65186	66845
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	1P Dual row	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63556	63556	65527	65527	65527	67498	67498	69469	69469	69469	71440
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	1P Dual row	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	57643	57643	59614	59614	59614	61585	61585	61585	63556	63556	65527
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3
STI-H1250	1P	1500	DEG19C.20	550	1096	Variable; see options on the right	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							Option 1. Rows per tracker (1,5 string/row)	12	12	12	12	11	11	11	11	11	11	10
							支架长度（mm） Tracker Length	58550	58550	60209	60209	61868	61868	63527	63527	65186	65186	66845
							支架容量（KW/套 set） Tracker Capacity	346.5	346.5	356.4	356.4	335.8	335.8	344.9	344.9	353.9	353.9	330.0
							Option 2. Rows per tracker (1,0 string/row)	18	18	18	18	17	17	17	17	16	16	16
							支架长度（mm） Tracker Length	39200	39200	40306	40306	41412	41412	42518	42518	43624	43624	44730
							支架容量（KW/套 set） Tracker Capacity	346.5	346.5	356.4	356.4	346.0	346.0	355.3	355.3	343.2	343.2	352.0
	1P	1500	DEG20C.20	600	1303	Variable; see options on the right	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							Option 1. Rows per tracker (1,5 string/row)	12	12	12	12	12	11	11	11	11	11	11
							支架长度（mm） Tracker Length	63509	63509	65479	65479	65479	67448	67448	69418	69418	69418	71387
							支架容量（KW/套 set） Tracker Capacity	345.6	345.6	356.4	356.4	356.4	336.6	336.6	346.5	346.5	346.5	356.4
							Option 2. Rows per tracker (1,0 string/row)	20	20	19	19	19	19	19	18	18	18	18
							支架长度（mm） Tracker Length	42506	42506	43819	43819	43819	45132	45132	46445	46445	46445	47758
							支架容量（KW/套 set） Tracker Capacity	384.0	384.0	376.2	376.2	376.2	387.6	387.6	378.0	378.0	378.0	388.8
	1P	1500	DEG21C.20	670	1303	Variable; see options on the right	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							Option 1. Rows per tracker (1,5 string/row)	14	14	14	14	14	13	13	13	13	13	13
							支架长度（mm） Tracker Length	57643	57643	59614	59614	59614	61585	61585	61585	63556	63556	65527
							支架容量（KW/套 set） Tracker Capacity	408.0	408.0	422.1	422.1	422.1	405.0	405.0	405.0	418.1	418.1	431.1
							Option 2. Rows per tracker (1,0 string/row)	22	22	21	21	21	20	20	20	20	20	19
							支架长度（mm） Tracker Length	38595	38595	39909	39909	39909	41223	41223	41223	42537	42537	43851
							支架容量（KW/套 set） Tracker Capacity	427.5	427.5	422.1	422.1	422.1	415.4	415.4	415.4	428.8	428.8	420.1

6.13 TrinaTracker

支架品牌名 Product Brand	支架型号 Tracker type	最大系统电压 Max Voltage (V)	组件类型 Module type	组件功率 Module power (W)	组件宽度 Module Width (mm)	支架组串 String per Tracker	内容 Content / 温度 Temp (°C)	不同环境温度 Different temperature (°C)										
								-20	-15	-10	-5	0	5	10	15	20	25	30
Vanguard™ xxx-1P	1P	1500	DEG19C.20	550	1096	2	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	78580	78580	80812	80812	83044	83044	85276	85276	87508	87508	89740
							支架容量（KW/套 set） Tracker Capacity	38.5	38.5	39.6	39.6	40.7	40.7	41.8	41.8	42.9	42.9	44.0
	1P	1500	DEG20C.20	600	1303	2	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	85132	85132	87778	87778	87778	90424	90424	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	38.4	38.4	39.6	39.6	39.6	40.8	40.8	/	/	/	/
	1P	1500	DEG21C.20	670	1303	2	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	77194	77194	79840	79840	79840	82486	82486	82486	85132	85132	87778
							支架容量（KW/套 set） Tracker Capacity	38.9	38.9	40.2	40.2	40.2	41.5	41.5	41.5	42.9	42.9	44.2
Agile™ xxx-1P	1P Dual row	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	59060	59060	60734	60734	62408	62408	64082	64082	65756	65756	67430
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	1P Dual row	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63974	63974	65959	65959	65959	67943	67943	69928	69928	69928	71912
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	63.0	63.0	63.0	64.8
	1P Dual row	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	58021	58021	60005	60005	60005	61990	61990	61990	63974	63974	65959
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3
Vanguard™ xxx-2P	2P	1500	DEG19C.20	550	1096	3	单串组件数（pcs） modules per string	35	35	36	36	37	37	38	38	39	39	40
							支架长度（mm） Tracker Length	60744	60744	60744	60744	64092	64092	64092	64092	67440	67440	67440
							支架容量（KW/套 set） Tracker Capacity	57.8	57.8	59.4	59.4	61.1	61.1	62.7	62.7	64.4	64.4	66.0
	2P	1500	DEG20C.20	600	1303	3	单串组件数（pcs） modules per string	32	32	33	33	33	34	34	35	35	35	36
							支架长度（mm） Tracker Length	63984	63984	67953	67953	67953	67953	67953	/	/	/	/
							支架容量（KW/套 set） Tracker Capacity	57.6	57.6	59.4	59.4	59.4	61.2	61.2	/	/	/	/
	2P	1500	DEG21C.20	670	1303	3	单串组件数（pcs） modules per string	29	29	30	30	30	31	31	31	32	32	33
							支架长度（mm） Tracker Length	60015	60015	60015	60015	60015	62661	62661	62661	63984	63984	67953
							支架容量（KW/套 set） Tracker Capacity	58.3	58.3	60.3	60.3	60.3	62.3	62.3	62.3	64.3	64.3	66.3

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