

Pioneer 2.0

695-740W

132-TOPCon BIFACIAL MODULE
WITH DUAL GLASS



12 Years Product
Warranty



30 Years Linear
Power Warranty



SMBB Technology

Better light trapping and current collection, less optical and resistance losses, effectively improving module power output and reliability.



>85% Bifaciality

Greater backside generation gain with significantly LCOE reduced.

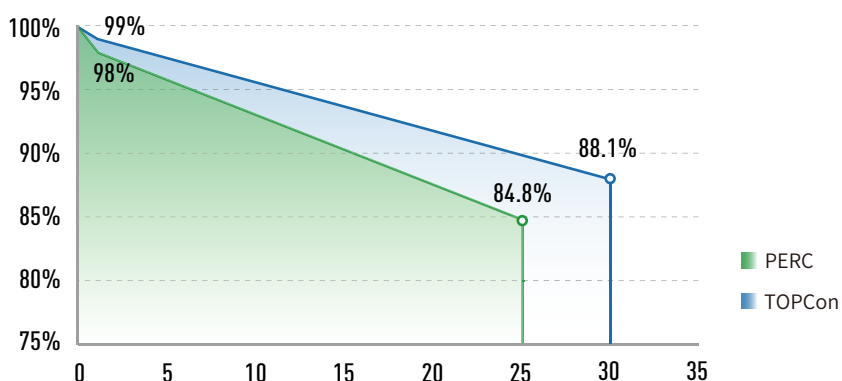


Low Temperature Coefficients

Excellent temperature coefficients, and more stable power generation performance.



IEC61215:2021 / IEC61730:2023

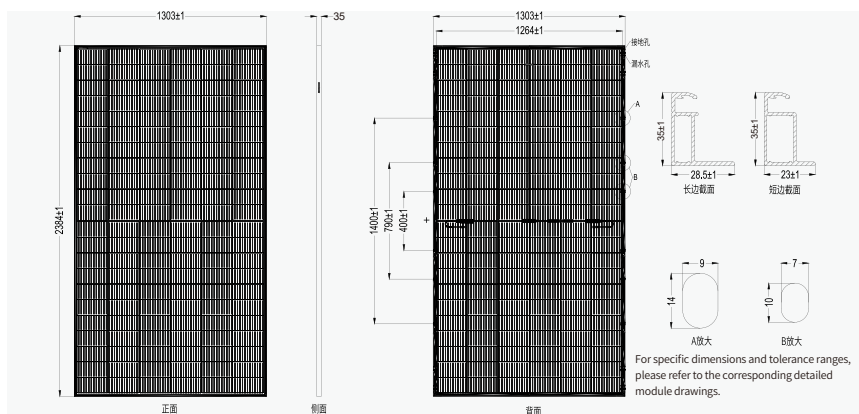


Less than **1%** degradation in the 1st year

30 years power warranty

0.375% linear degradation

*This linear power warranty is solely valid for the front side of the modules under Standard Test Conditions



Connectors	Z4S-abcde(Zerun Co., Ltd.)	PV-ZH202B(Zhejiang Zhonghuan Sunter PV Technology Co.,Ltd.)
	QC4.10-cds (QC Solar)	PV-CY03L(Zhejiang Chuanyuan Photovoltaic Technology Co.,Ltd.)
	PV-JM601(Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co.,Ltd.)	

Mechanical Characteristics

Cell Type	TOPCon Mono-crystalline
No. of Cells	132 (6×22)
Dimensions	2384×1303×35mm
Weight	38.5kg
Front Glass	2.0mm Anti-reflection Coating
Back Glass	2.0mm Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	4mm ² , 300mm in Length, or Customized Length
Test Load (front side)	5400 Pa
Test Load (rear side)	2400 Pa

Electrical Characteristics (STC)

Module Types	SETS210X-132 D-695CS	SETS210X-132 D-700CS	SETS210X-132 D-705CS	SETS210X-132 D-710CS	SETS210X-132 D-715CS	SETS210X-132 D-720CS	SETS210X-132 D-725CS	SETS210X-132 D-730CS	SETS210X-132 D-735CS	SETS210X-132 D-740CS
Max Power(Pmax)[W]/±3%	695	700	705	710	715	720	725	730	735	740
Open Circuit Voltage(Voc)[V]/±3%	48.23	48.37	48.51	48.65	48.79	48.93	49.07	49.21	49.35	49.49
Short Circuit Current(Isc)[A]/±4%	18.09	18.15	18.21	18.27	18.33	18.39	18.45	18.51	18.57	18.63
Max.Power Voltage(Vmp)[V]	40.64	40.78	40.92	41.06	41.20	41.34	41.48	41.62	41.76	41.90
Max.Power Current(Imp)[A]	17.18	17.24	17.30	17.36	17.42	17.48	17.54	17.60	17.66	17.72
Module Efficiency(%)	22.37	22.53	22.70	22.86	23.02	23.18	23.34	23.50	23.66	23.82
Power Selection	0 ~ +5W									
Bifaciality Coefficients	φPmax=85%±10% φVoc=99%±10% φIsc=85%±10%									
STC (Standard Test Conditions) : Irradiance 1000W/m ² , Cell temperature 25°C, AM 1.5, Tolerance of Pmax is within +/-3%										

Electrical Characteristics (BNPI)

Max Power(Pmax)[W]/±3%	775	780	785	790	795	800	805	810	815	820
Open Circuit Voltage(Voc)[V]/±3%	48.23	48.37	48.51	48.65	48.79	48.93	49.07	49.21	49.35	49.49
Short Circuit Current(Isc)[A]/±4%	20.17	20.23	20.30	20.37	20.43	20.50	20.57	20.63	20.70	20.77
Max.Power Voltage(Vmp)[V]	40.64	40.78	40.92	41.06	41.20	41.34	41.48	41.62	41.76	41.90
Max.Power Current(Imp)[A]	19.15	19.22	19.29	19.35	19.37	19.44	19.51	19.57	19.64	19.69
BNPI (Bifacial Nameplate Irradiance): Irradiance: front1000W/m ² , rear 135W/m ² , Cell Temperature 25°C, AM=1.5, Tolerance of Pmax is within +/-3%										

Electrical Characteristics (aBSI) Irradiance: front1000W/m², rear 300W/m², Cell Temperature 25°C, AM=1.5

Short Circuit Current(Isc)[A]/±4%	22.70	22.78	22.85	22.93	23.00	23.08	23.15	23.23	23.31	23.38
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Packaging Configuration

	Flat car	Flat car	Container
Size	13m	17.5m	40HC
Pallets Per	20	22	18
Modules Per Pallet (pcs)	33	33	33
Total Modules (pcs)	660	726	594

Temperature Coefficients

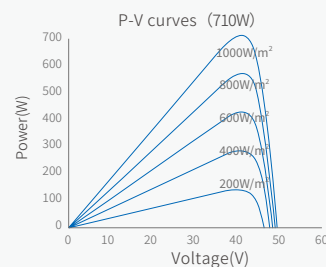
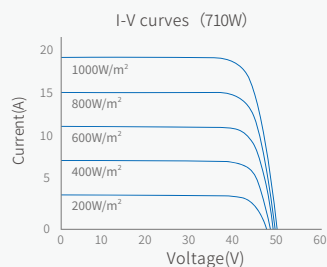
Nominal Operating Cell Temp. (NOCT)	45±2°C
Temperature Coefficient of Pmax δ (%/°C)	-0.28
Temperature Coefficient of Voc β (%/°C)	-0.25
Temperature Coefficient of Isc α (%/°C)	0.046

Application Conditions

Level T ₉₈ ≤ 90	-40°C~90°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	35A

Safety & Warranty

Safety Class: Class II	Fire Class: Class C
Product Warranty	12 yrs Workmanship
Power Warranty	30 yrs Linear Warranty



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