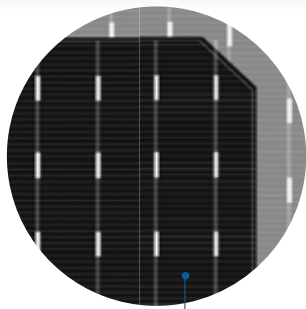
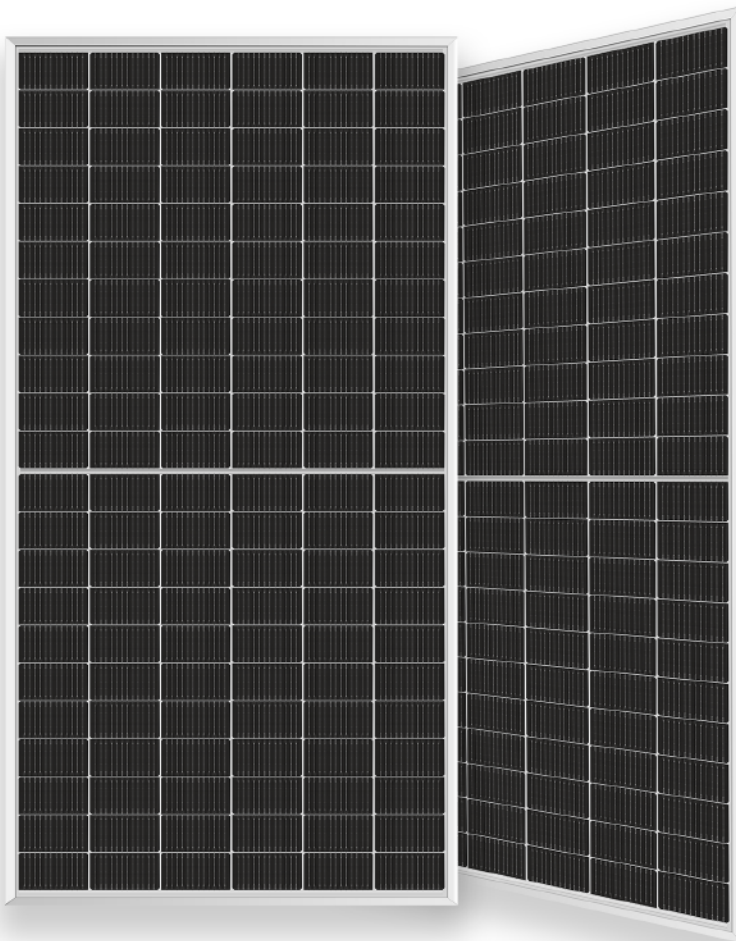


210 Bifacial Solar Module



• Double-sided cell technology

High Efficiency

Higher module conversion efficiency benefit from half cell structure (low resistance characteristic).



Multi busbar technology

Better light utilization and current collection capabilities, effectively improving product power output and reliability.



Longer service life

Excellent double-sided warranty promises a 30-year power warranty of 0.45% linear power attenuation.



Severe Weather Resilience

Certified to withstand: Wind load (2400 pascal) and snow load (5400 pascal).



Double-sided power generation

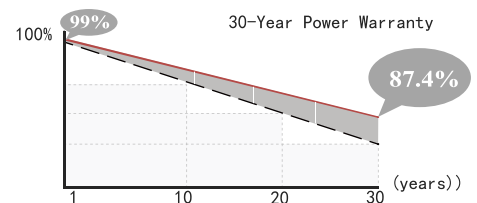
The double-sided power generation gain increases with the light received on the back side, up to 25%, which significantly reduces the LCOE.



12-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output



IEC61215, IEC61730, IEC61701, IEC62716, IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

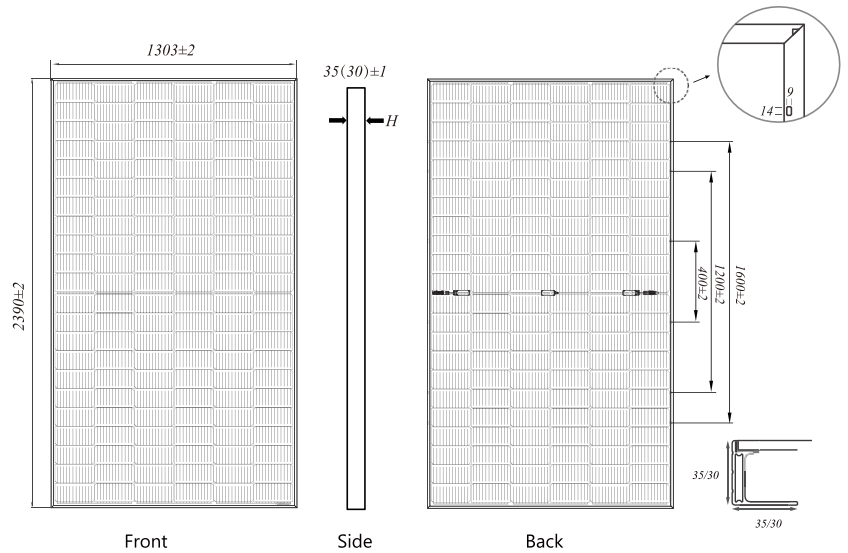


645-670W

STM645-670/132-S4S

Half-Cut Cell High Efficiency Bifacial PV Module

Weight	Dimension(LxWxT)
37.9kg±3%	2390x1303x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 210-12BB	31/558pcs 35/630pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	132(6x22)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 C ~+85 C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

STC:AM1.5 1000W/m² 25 C NOCT:AM1.5 800W/m² 20 C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM645/132-S4S		STM650/132-S4S		STM655/132-S4S		STM660/132-S4S		STM665/132-S4S		STM670/132-S4S	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	645	488	650	492	655	496	660	500	665	504	670	508
Open Circuit Voltage(Voc/V)	45.30	42.70	45.30	42.70	45.50	42.89	45.70	43.08	45.90	43.26	46.10	43.45
Short Circuit Current(Isc/A)	18.31	14.75	18.44	14.86	18.48	14.89	18.53	14.93	18.57	14.96	18.62	15.00
Voltage at Maximum Power(Vmp/V)	37.50	34.86	37.40	34.96	37.60	35.15	37.80	35.33	38.00	35.52	38.20	35.69
Current at Maximum Power(Imp/A)	17.23	13.99	17.39	14.09	17.43	14.12	17.47	14.16	17.51	14.19	17.55	14.22
Module Efficiency(%)	20.80%		20.90%		21.10%		21.20%		21.40%		21.60%	

POWER OUTPUT OF THE FRONT AND REAR SIDE

(REFERENCEDSPECIFICALLY TO 540WP FRONT)

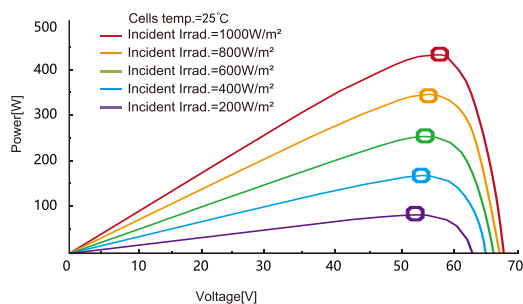
Power Gain (%)	5%	10%	15%	20%	25%
Maximum Power(Pmax/W)	572	600	627	654	681
Pmax Gain(%)	22.07%	23.16%	24.20%	25.24%	25.28%

TEMPERATURE RATINGS

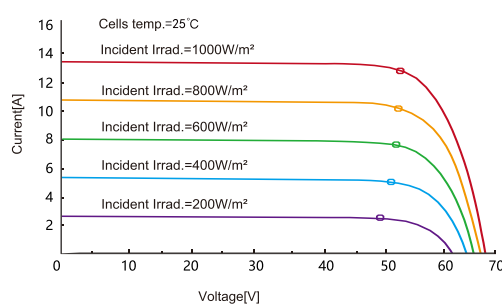
Normal Operating Cell Temperature(NOCT)	45±2 C
Temperature Coefficient of Isc	+0.048%/ C
Temperature Coefficient of Voc	-0.280%/ C
Temperature Coefficient of Pmax	-0.350%/ C

I-V CURVE(STM645-670/132-S4S)

Power-Voltage Curve



Current-Voltage Curve



Isc, Voc, Pmax-Temperature Curve

