

210 Full Black Solar Module

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.



High Efficiency

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



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

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



12-year Warranty for Materials and Processing



25-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

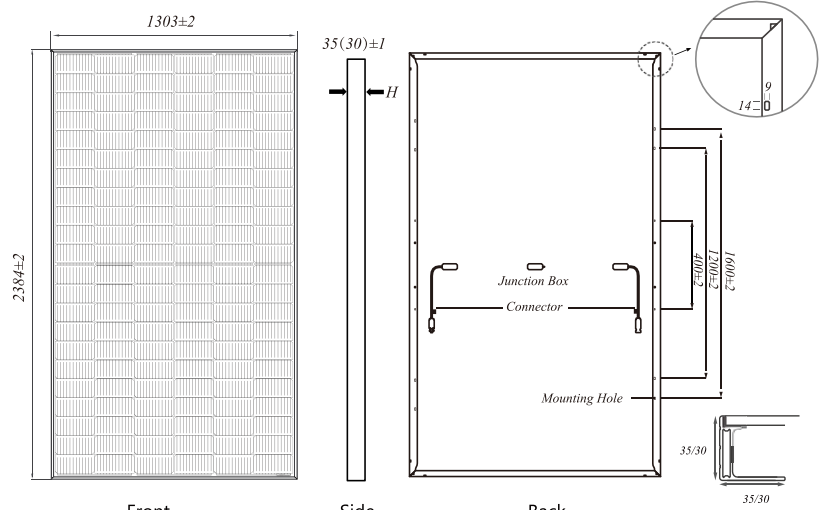


645-670W

STM645-670/132-S4B

Full Black Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
35.7kg±3%	2384x1303x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 210-12BB 31/558pcs	37/666pcs



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

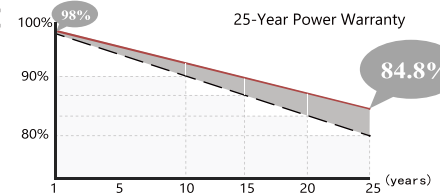
STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM645/132-S4B		STM650/132-S4B		STM655/132-S4B		STM660/132-S4B		STM665/132-S4B		STM670/132-S4B	
	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%	

TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	43±2°C
Temperature Coefficient of Isc	+0.040%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Pmax	-0.340%/°C

ADDITIONAL VALUE



I-V CURVE(STM645-670/132-S4B)

