

645~675M

STM-645-675/132-S4

High Power and High Efficiency

Ideal choice for large scale ground installation.



PID Resistance

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



Mechanical Performance

Special cutting and soldering technology leads to low hotspot risk.



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



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645-675W

Half-Cell High Efficiency PV Module

Weight

35.7kgs±3%

Cells Type

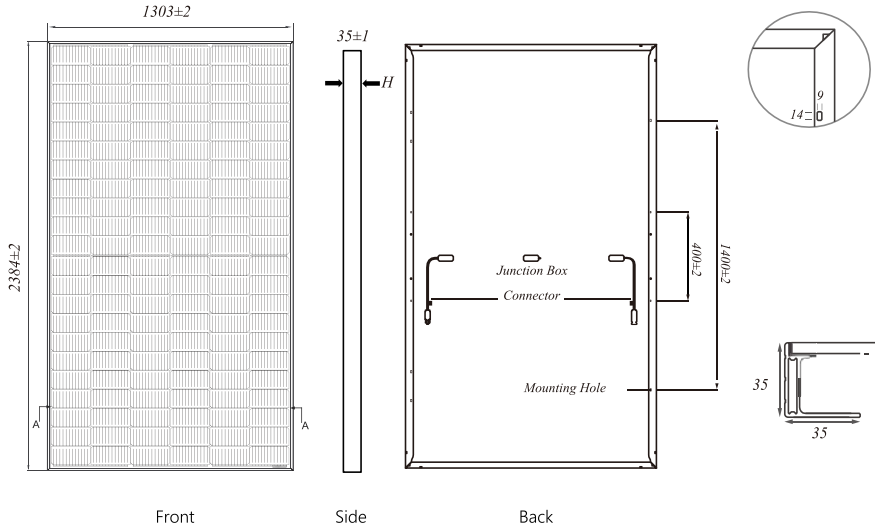
Mono 210x105mm

Dimension (LxW×T)

2384±2mmx1303±2mmx35±1mm

Packaging

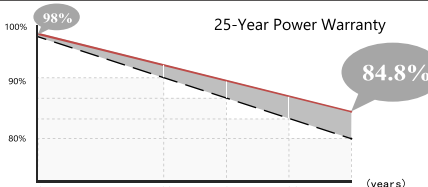
31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION				OPERATING PARAMETERS			
Cell	Mono			Maximum System Voltage	1500VDC		
No.of cells	132(6x22)			Operating Temperature	-40 C ~+85 C		
Cable Length	300mm(+)/300mm(-)			Maximum Series Fuse	30A		
Cable Cross Section Size	4mm ² (IEC)			Maximum StaticLoad,Front	5400Pa(112lb/ft ²)		
Junction Box	IP68Rated,3diodes			Maximum StaticLoad,Back	2400Pa(50lb/ft ²)		
Connector	MC4 Compatible			Safety Class	Class II		

ELECTRICAL CHARACTERISTICS		STC:AM1.5 1000W/ m ² 25 C NOCT :AM1.5 800W/ m ² 20 C 1m/s Test uncertainty for Pmax ±3%															
Module Type		STM-645/132-S4		STM-650/132-S4		STM-655/132-S4		STM-660/132-S4		STM-665/132-S4		STM-670/132-S4		STM-675/132-S4			
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT		
Maximum Power(Pmax/W)		645	483.9	650	487.7	655	491.4	660	495.2	665	498.9	670	502.7	675	506.4		
Open Circuit Voltage(Voc/V)		45.00	42.20	45.20	42.40	45.40	42.60	45.60	42.80	45.80	43.00	46.00	43.20	46.20	43.40		
Short Circuit Current(Isc/A)		18.31	14.79	18.35	14.83	18.39	14.86	18.44	14.90	18.48	14.93	18.51	14.96	18.55	14.99		
Voltage at Maximum Power(Vmp/V)		37.30	35.30	37.50	35.50	37.70	35.70	37.90	35.90	38.10	36.10	38.30	36.30	38.50	36.50		
Current at Maximum Power(Imp/A)		17.29	13.70	17.33	13.73	17.37	13.76	17.41	13.80	17.45	13.83	17.49	13.85	17.53	13.88		
Module Efficiency(%)		20.76%		20.92%		21.09%		21.25%		21.41%		21.57%		21.73%			

TEMPERATURE RATINGS		ADDITIONAL VALUE	
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		

I-V CURVE(STM-645-675/132-S4)

