

580~610M

STM-580-610/120-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



STM-580-610/120-S4

580-610W

Half-Cell High Efficiency PV Module

Weight

30.9kgs±3%

Cells Type

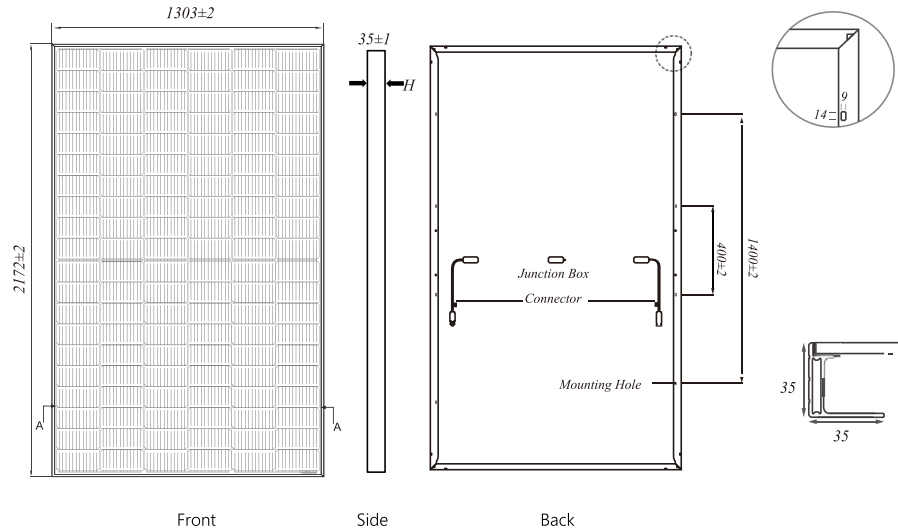
Mono 210x105mm

Dimension (LxWxT)

2172±2mmx1303±2mmx35±1mm

Packaging

31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	120(6x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68Rated,3diodes
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

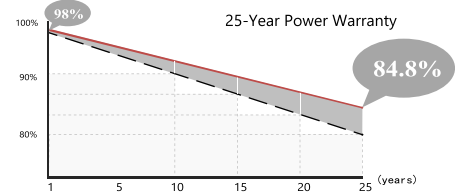
STC:AM1.5 1000W/ m² 25 C NOCT :AM1.5 800W/ m² 20 C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM-580/120-S4		STM-585/120-S4		STM-590/120-S4		STM-595/120-S4		STM-600/120-S4		STM-605/120-S4		STM-610/120-S4	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	580	435.2	585	438.9	590	442.7	595	446.4	600	450.2	605	453.9	610	457.7
Open Circuit Voltage(Voc/V)	40.50	38.00	40.70	38.20	40.90	38.40	41.10	38.60	41.30	38.80	41.50	38.90	41.70	39.10
Short Circuit Current(Isc/A)	18.27	14.76	18.32	14.80	18.37	14.84	18.42	14.88	18.47	14.92	18.52	14.96	18.57	15.30
Voltage at Maximum Power(Vmp/V)	34.10	31.80	34.30	32.00	34.50	32.20	34.70	32.40	34.90	32.60	35.10	32.80	35.30	32.90
Current at Maximum Power(Imp/A)	17.02	13.67	17.06	13.71	17.11	13.74	17.15	13.78	17.20	13.82	17.25	13.86	17.29	13.89
Module Efficiency(%)	20.50%		20.70%		20.80%		21.00%		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(STM-580-610/120-S4)

