







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** 

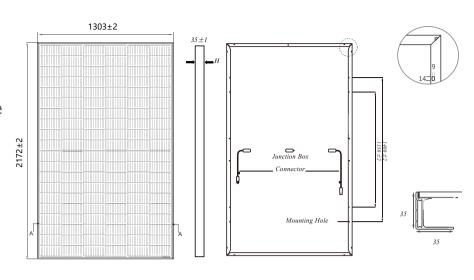
Mono 210×105mm

Dimension (L×W×T)

 $2172\pm2mm\ x1303\pm2mm\ x\ 35\pm1mm$ 

Packaging

31pcs/pallet, 845pcs/40HQ container



Front Remark: customized frame color and cable length available upon request

### **MECHANICAL SPECIFICATION**

Cell No.of cells 120(6x20)

Cable Length 300mm (+) /300mm (-)

Cable Cross Section Size 4mm<sup>2</sup> (IEC) IP68 Rated,3diodes Junction Box Connector MC4 Compatible

### **OPERATING PARAMETERS**

Maximum System Voltage 1500V DC **Operating Temperature** -40℃~+85℃

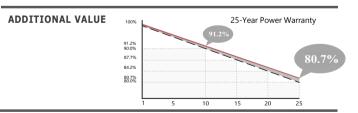
Maximum Series Fuse 30A

Maximum StaticLoad, Front 5400Pa(112lb/ft²) Maximum StaticLoad, Back 2400Pa(50lb/ft²)

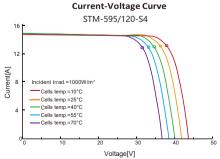
Safety Class Class II

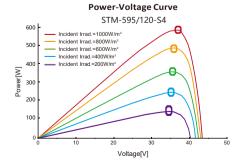
ELECTRICAL CHALACTERISTICS	STC:AM1.5 1000W/m² 25°C NOCT :AM1.5				800W/m² 20	°C 1m/s	Test uncer							
Module Type	STM - 580/120 - S4		STM-585/120-S4		STM-590/120-S4		STM-595/120 -S4		STM-600/120-S4		STM-605/120-S4		STM-610/120-S4	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	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%	

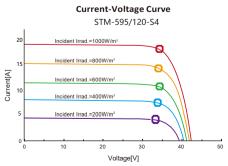
#### **TEMPERATURE RATINGS** Norminal Operating Cell Temperature(NOCT) 45±2°C Temperature Coefficient of Isc +0.050%/ ℃ Temperature Coefficient of Voc -0.260%/ ℃ Temperature Coefficient of Pmax -0.340%/°C



## I-V CURVE(STM-580-610/120-S4)









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