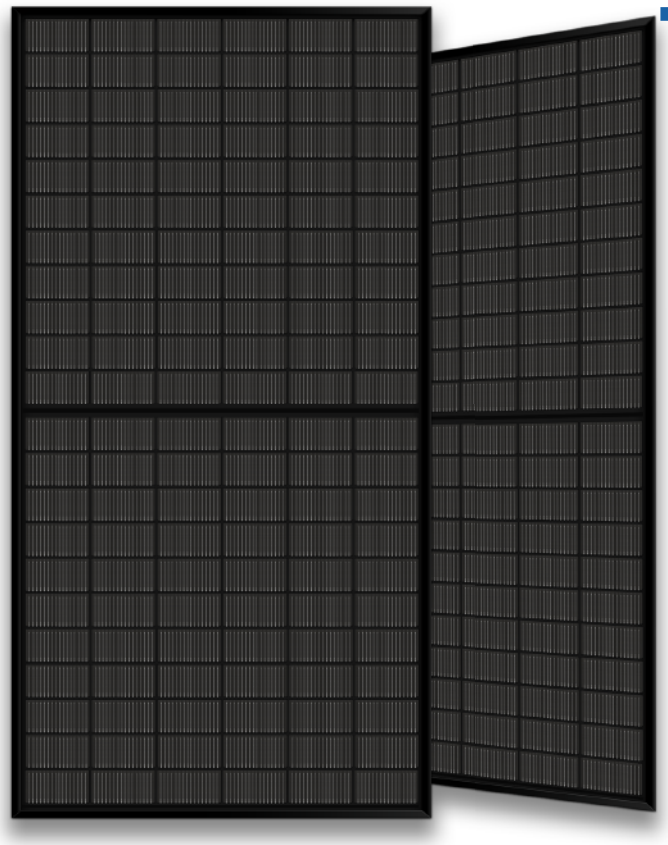
Schutten solar



TOPCon 182 Full Black Bifacial Solar Module

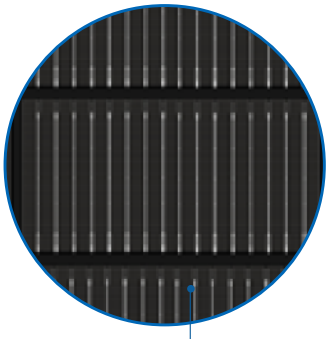
High Efficiency
Higher module conversion efficiency benefit from half cell structure(low resistance characteristic).

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).

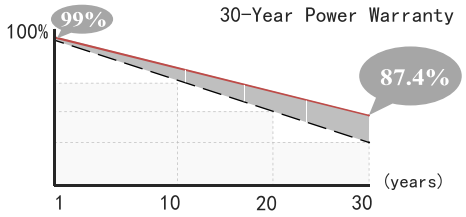
Double-sided power generation
The double-sided power generation gain increases with the light received on the back side, up to 25%, which significantly reduces the LCOE.



Double-sided cell technology

12-year Warranty for Materials and Processing **12**

30-year Warranty for Extra Linear Power Output **30**



IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

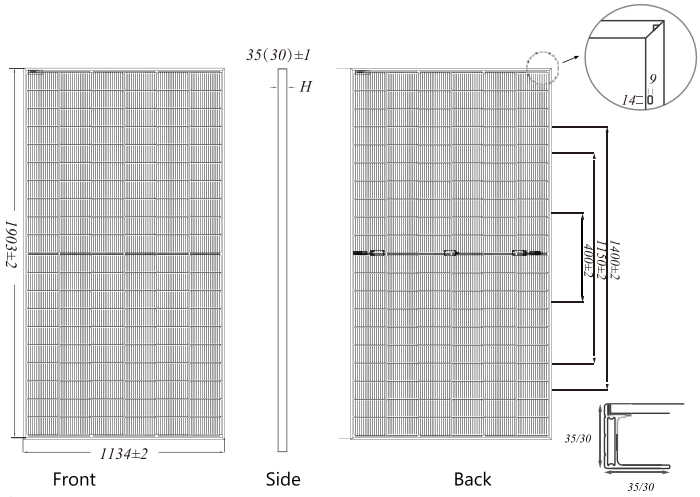
ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

460-475W

STM460-475/120-S5SB

Full Black Half-Cut Cell High Efficiency Bifacial PV Module

Weight	Dimension(LxWxT)
24.0kg±3%	1903x1134x35(30)mm
Cells Type	**Packaging(pcs/40HQ container)**
TOPCon 182-16BB	31/744pcs 37/888pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline
No.of cells	120(6x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	Class Ⅱ

ELECTRICAL CHARACTERISTICS

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

Module Type	STM460/120-S5SB		STM465/120-S5SB		STM470/120-S5SB		STM475/120-S5SB	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	460	346	465	350	470	353	475	357
Open Circuit Voltage(Voc/V)	42.05	39.93	42.22	40.09	42.38	40.25	42.54	40.40
Short Circuit Current(Isc/A)	13.99	11.29	14.07	11.35	14.15	11.42	14.23	11.48
Voltage at Maximum Power(Vmp/V)	34.72	32.62	34.89	32.78	35.05	32.95	35.21	33.11
Current at Maximum Power(Imp/A)	13.25	10.60	13.33	10.66	13.41	10.72	13.49	10.78
Module Efficiency(%)	21.32		21.55		21.78		22.01	

POWER OUTPUT OF THE FRONT AND REAR SIDE

(REFERENCEDSPECIFICALLY TO 540WP FRONT)

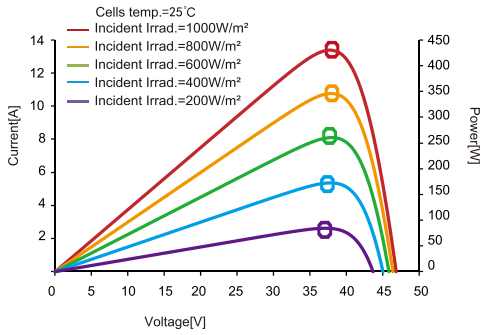
Power Gain (%)	5%	10%	15%	20%	25%
Maximum Power(Pmax/W)	572	600	627	654	681
Pmax Gain(%)	22.07%	23.16%	24.20%	25.24%	25.28%

TEMPERATURE RATINGS

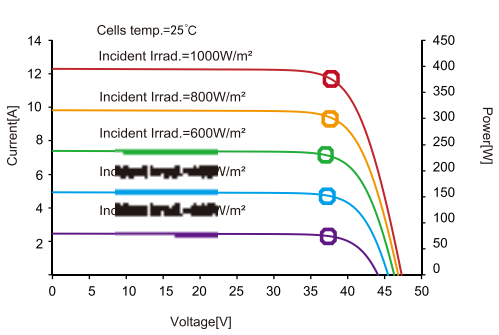
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.045%/℃
Temperature Coefficient of Voc	-0.275%/℃
Temperature Coefficient of Pmax	-0.350%/℃

I-V CURVE(STM460-475/120-S5SB)

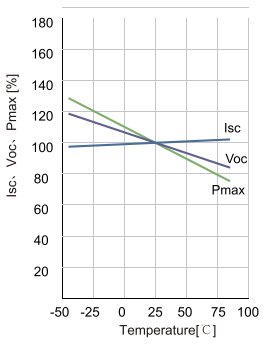
Power-Voltage Curve



Current-Voltage Curve



Isc、Voc、Pmax-Temperature Curve



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