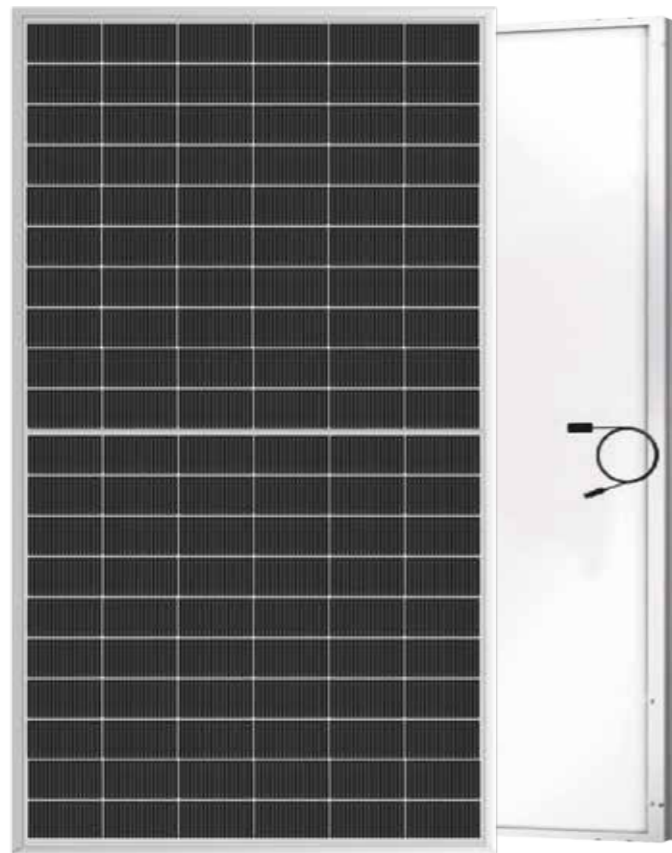


TOPCon 182 Solar Module 485-505W

STM-485-505/120-S5



Higher power output **23.3%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



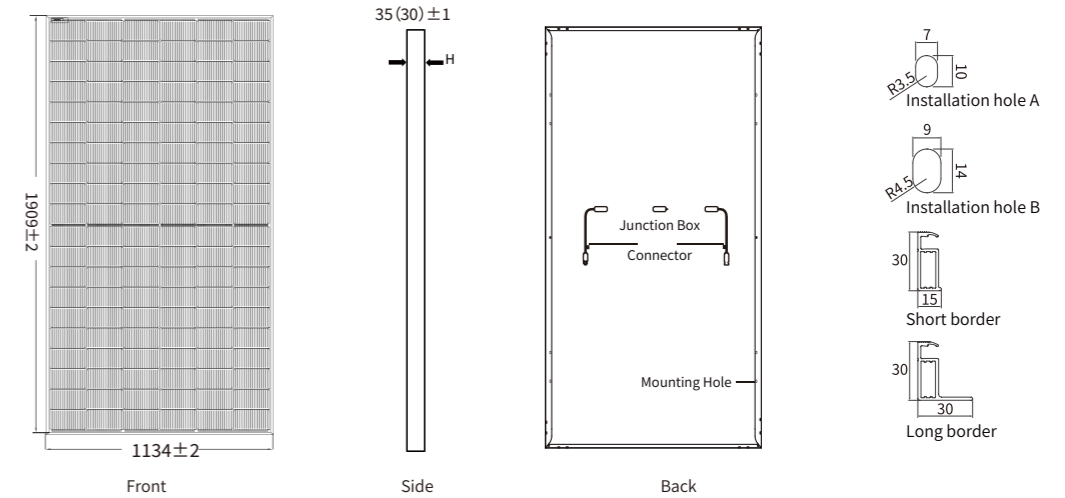
12
YEARS

12-year Warranty for Materials and Processing

30
YEARS

30-year Warranty for Extra Linear Power Output

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
GB/T 29490-2013



Remark: customized frame color and cable length available upon request

Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/744pcs 37/888pcs	31/1116pcs 37/1332pcs	1909x1134x35(30)mm	22kg±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	120(6x20)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	25A
Cable Cross Section Size	4mm ² (IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Connector	MC4 Compatible	Safety Class	Class II
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-485/120-S5		STM-490/120-S5		STM-495/120-S5		STM-500/120-S5		STM-505/120-S5	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition										
Maximum Power(Pmax/W)	485	365	490	368	495	372	500	376	505	380
Open Circuit Voltage(Voc/V)	42.88	40.72	43.05	40.88	43.22	41.04	43.39	41.20	43.56	41.37
Short Circuit Current(Isc/A)	14.39	11.61	14.47	11.68	14.55	11.74	14.63	11.81	14.71	11.87
Voltage at Maximum Power(Vmp/V)	35.55	33.43	35.72	33.59	35.89	33.75	36.06	33.90	36.23	34.06
Current at Maximum Power(Imp/A)	13.65	10.90	13.73	10.96	13.81	11.02	13.89	11.09	13.97	11.15
Module Efficiency(%)	22.40		22.60		22.90		23.10		23.30	

TEMPERATURE RATINGS		ADDITIONAL VALUE	
Normal Operating Cell Temperature(NOCT)	45±2°C		
Temperature Coefficient of Isc	+0.045%/°C		
Temperature Coefficient of Voc	-0.275%/°C		
Temperature Coefficient of Pmax	-0.350%/°C		

