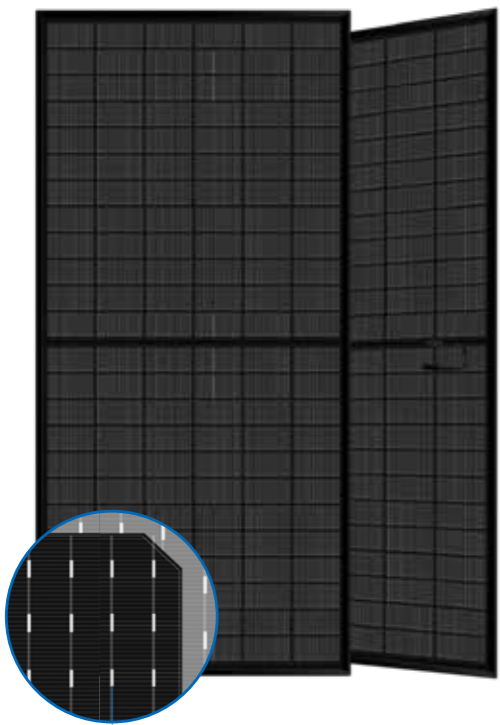


TOPCon 182 Full Black Bifacial Solar Module

575-595W

STM-575-595/144-S5SB



Double-sided cell technology

Higher power output **23.0%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



Double-sided power generation

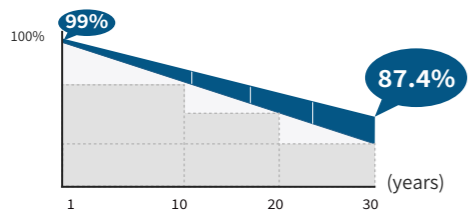


12
YEARS

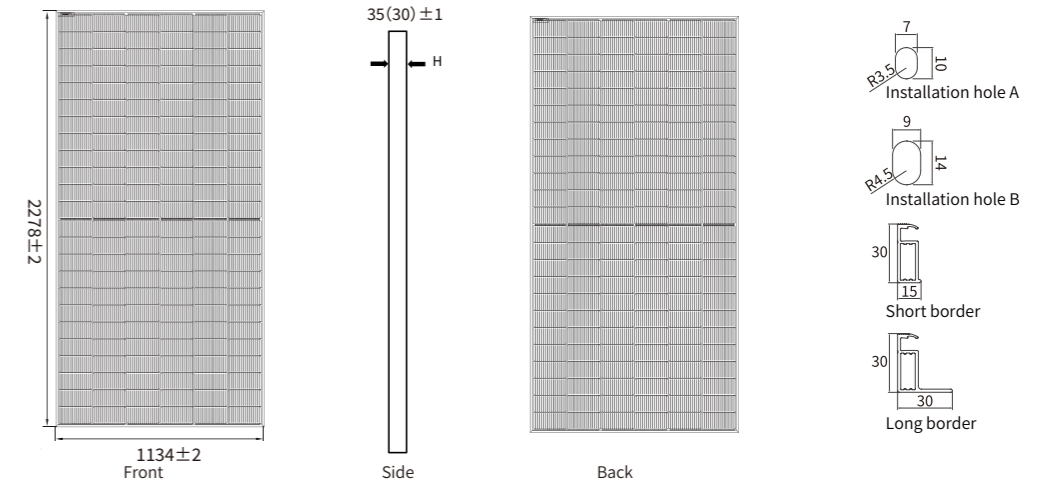
12-year Warranty for Materials and Processing

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)	13.5 meter semi hanging	Dimensions	Weight
31/620pcs 37/740pcs	31/682pcs 37/814pcs	2278x1134x35(30)mm	32.6kg±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	144(6x24)	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-575/144-S5SB		STM-580/144-S5SB		STM-585/144-S5SB		STM-590/144-S5SB		STM-595/144-S5SB	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	575	433	580	436	585	440	590	444	595	448
Open Circuit Voltage(Voc/V)	50.88	48.29	51.02	48.42	51.16	48.55	51.30	48.69	51.44	48.82
Short Circuit Current(Isc/A)	14.39	11.62	14.47	11.68	14.55	11.74	14.63	11.81	14.71	11.87
Voltage at Maximum Power(Vmp/V)	42.22	39.68	42.37	39.75	42.52	39.87	42.67	39.99	42.82	40.11
Current at Maximum Power(Imp/A)	13.62	10.92	13.69	10.98	13.76	11.04	13.83	11.10	13.90	11.16
Module Efficiency(%)	22.30		22.50		22.60		22.80		23.00	

TEMPERATURE RATINGS		POWER OUTPUT OF THE FRONT AND REAR SIDE					
Normal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCEDSPECIFICALLY TO 575WP FRONT)					
Temperature Coefficient of Isc	+0.045%/°C	Power Gain (%)	5%	10%	15%	20%	25%
Temperature Coefficient of Voc	-0.275%/°C	Maximum Power(Pmax/W)	603	638	672	708	743
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)	23.30%	24.70%	26.00%	27.40%	28.70%

