

TOPCon 182 Bifacial Solar Module

530-550W

STM-530-550/132-S5S

Higher power output **23.2%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



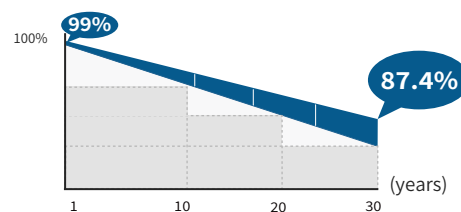
Durability Against Extreme Environmental Conditions



Double-sided power generation



Double-sided cell technology



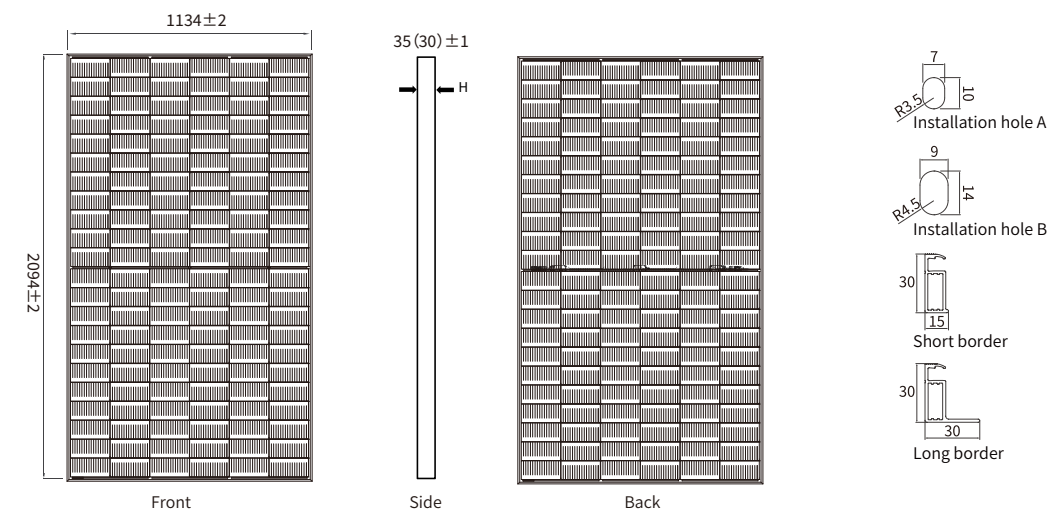
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
GB/T 29490-2013

12
YEARS

12-year Warranty for
Materials and Processing

30
YEARS

30-year Warranty for
Extra Linear Power Output



Remark: customized frame color and cable length available upon request

Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/682pcs 37/814pcs	31/992pcs 37/1110pcs	2094x1134x35(30)mm	30.6kg±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	132(6x22)	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-530/132-S5S		STM-535/132-S5S		STM-540/132-S5S		STM-545/132-S5S		STM-550/132-S5S	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition										
Maximum Power(Pmax/W)	530	399	535	403	540	406	545	411	550	414
Open Circuit Voltage(Voc/V)	48.57	46.10	48.72	46.24	48.87	46.38	49.02	46.52	49.17	46.66
Short Circuit Current(Isc/A)	14.02	11.32	14.11	11.39	14.20	11.46	14.29	11.53	14.38	11.61
Voltage at Maximum Power(Vmp/V)	40.21	37.54	40.36	37.60	40.51	37.71	40.66	37.87	40.81	37.93
Current at Maximum Power(Imp/A)	13.19	10.64	13.27	10.70	13.35	10.77	13.43	10.84	13.51	10.91
Module Efficiency(%)	22.30		22.50		22.70		23.00		23.20	

TEMPERATURE RATINGS		POWER OUTPUT OF THE FRONT AND REAR SIDE				
Norminal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCEDSPECIFICALLY TO 530WP FRONT)				
Temperature Coefficient of Isc	+0.045%/°C	Power Gain (%)	5%	10%	15%	20%
Temperature Coefficient of Voc	-0.275%/°C	Maximum Power(Pmax/W)	556	588	621	654
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)	23.40%	24.80%	26.20%	27.50%

I-V CURVE(STM-530-550/132-S5S)

