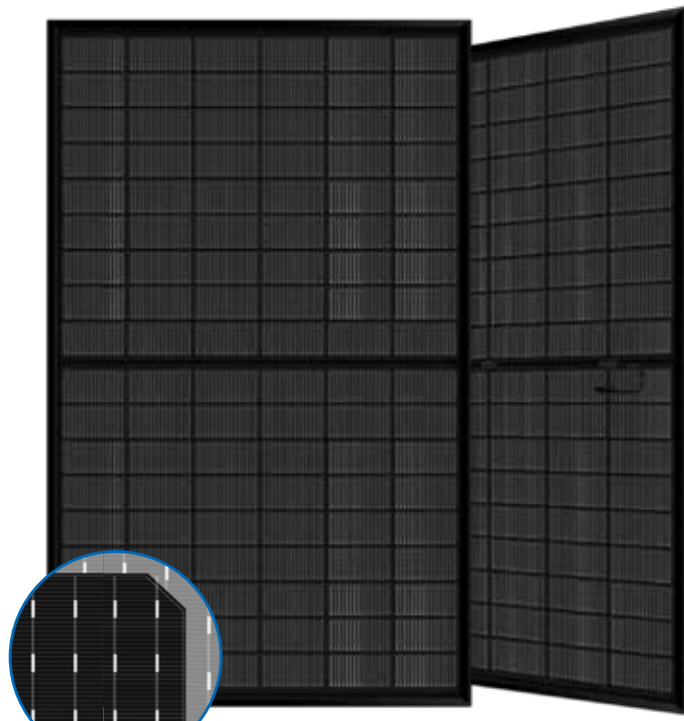


# TOPCon 182 Full Black Bifacial Solar Module

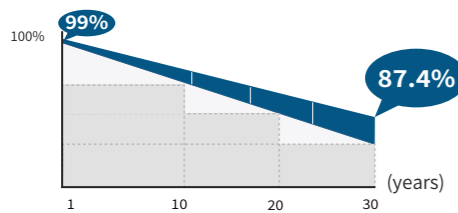
## 435-455W

STM-435-455/108-S5SB

Higher power output **23.3%** up to



Double-sided cell technology



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

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



Double-sided power generation

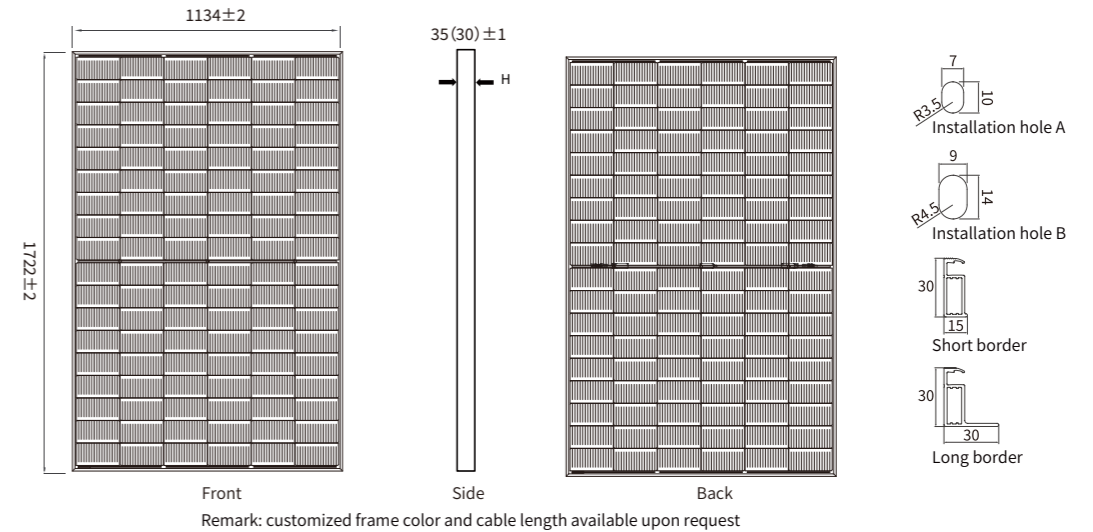


12 YEARS

12-year Warranty for Materials and Processing

30 YEARS

30-year Warranty for Extra Linear Power Output



Packaging(pcs/40HQ container)	13.5 meter semi hanging	Dimensions	Weight
31/806pcs 37/962pcs	31/930pcs 37/1110pcs	1722x1134x35(30)mm	24.6kg±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	108(6x18)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	25A
Cable Cross Section Size	4mm <sup>2</sup> (IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Connector	MC4 Compatible	Safety Class	Class II
STC:AM1.5 1000W/m <sup>2</sup> 25°C NOCT:AM1.5 800W/m <sup>2</sup> 20°C 1m/s		Test Uncertainty for Pmax ±3%	

Module Type	STM-435/108-S5SB		STM-440/108-S5SB		STM-445/108-S5SB		STM-450/108-S5SB		STM-455/108-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)	435	327	440	331	445	334	450	339	455	343
Open Circuit Voltage(Voc/V)	38.85	36.87	38.98	36.99	39.11	37.14	39.24	37.24	39.37	37.36
Short Circuit Current(Isc/A)	14.33	11.57	14.41	11.63	14.49	11.72	14.57	11.76	14.65	11.83
Voltage at Maximum Power(Vmp/V)	32.51	30.10	32.69	30.28	32.87	30.52	33.05	30.70	33.23	30.84
Current at Maximum Power(Imp/A)	13.38	10.87	13.46	10.93	13.54	10.96	13.62	11.04	13.70	11.11
Module Efficiency(%)	22.3		22.5		22.8		23.0		23.3	

TEMPERATURE RATINGS		POWER OUTPUT OF THE FRONT AND REAR SIDE					
Normal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCEDSPECIFICALLY TO 435WP 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)	457	479	500	522	544
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)	23.40%	24.50%	25.60%	26.80%	27.90%

### I-V CURVE(STM-435-455/108-S5SB)

