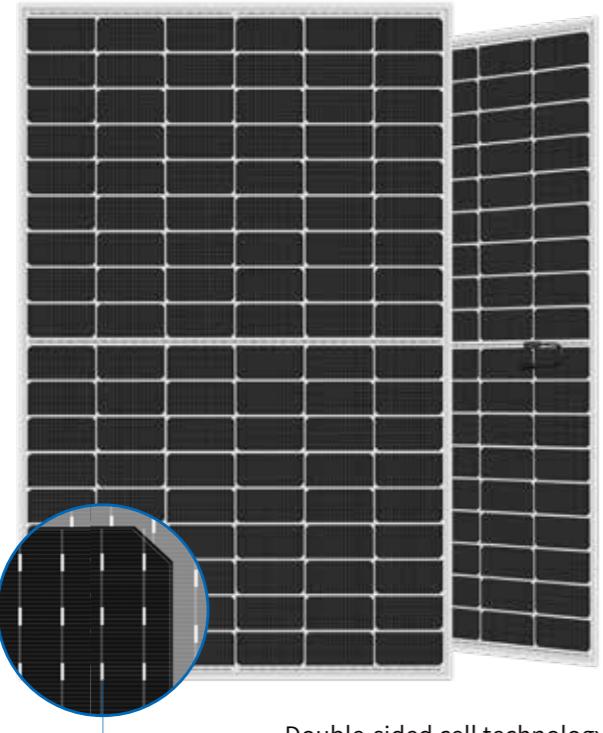




TOPCon 182 Bifacial Solar Module 440-460W

STM-440-460/108-S5S



Higher power output **23.6%**

PID Resistance



Low-light Performance



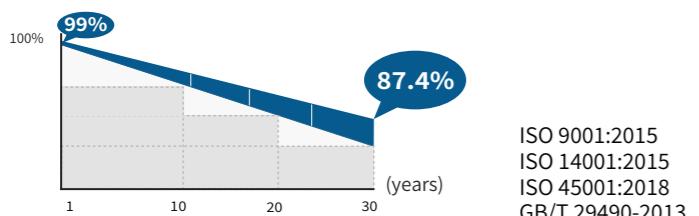
Severe Weather Resilience



Durability Against Extreme Environmental Conditions



Double-sided power generation



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

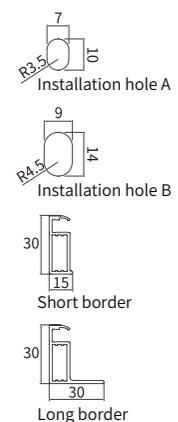
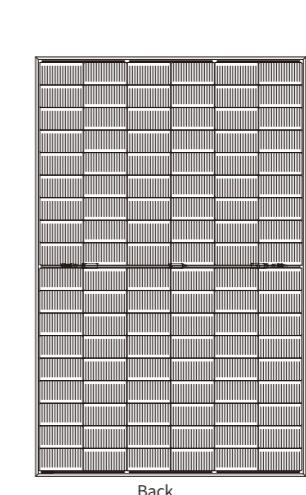
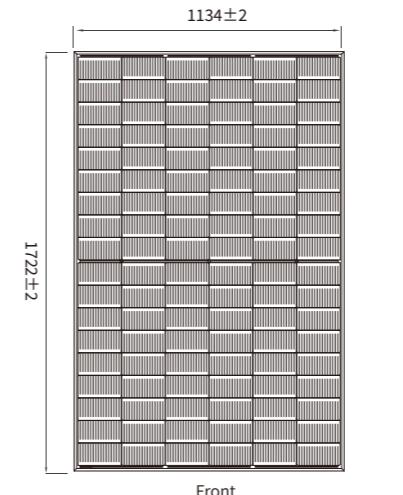


12
YEARS

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
31/806pcs 37/962pcs	31/1426pcs 37/1480pcs	1722x1134x35(30)mm	24.6kg±3%

MECHANICAL SPECIFICATION

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 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%

OPERATING PARAMETERS

ELECTRICAL CHARACTERISTICS

Module Type	STM-440/108-S5S	STM-445/108-S5S	STM-450/108-S5S	STM-455/108-S5S	STM-460/108-S5S
Testing Condition	STC	NOCT	STC	NOCT	STC
Maximum Power(Pmax/W)	440	331	445	334	450
Open Circuit Voltage(Voc/V)	38.98	36.99	39.11	37.14	39.24
Short Circuit Current(Isc/A)	14.41	11.63	14.49	11.72	14.57
Voltage at Maximum Power(Vmp/V)	32.69	30.28	32.87	30.52	33.05
Current at Maximum Power(Imp/A)	13.46	10.93	13.54	10.96	13.62
Module Efficiency(%)	22.5	22.8	23.0	23.3	23.6

TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCED SPECIFICALLY TO 440WP FRONT)
Temperature Coefficient of Isc	+0.045%/°C	Power Gain (%)
Temperature Coefficient of Voc	-0.275%/°C	Maximum Power(Pmax/W)
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)

POWER OUTPUT OF THE FRONT AND REAR SIDE

I-V CURVE (STM-440-460/108-S5S)

