

182 Solar Module

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.



High Efficiency

Higher module conversion efficiency benefit from half cell structure(low resistance characteristic).



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



12-year Warranty for Materials and Processing



25-year Warranty for Extra Linear Power Output

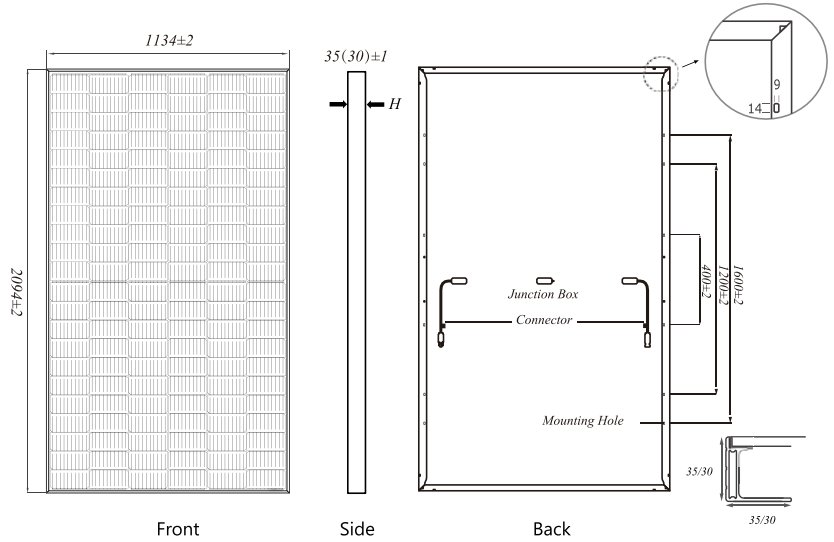


480-505W

STM480-505/132-S3

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
26.3kg±3%	2094x1134x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 182-10BB	31/682pcs 37/814pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No. of cells	132(6x22)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 °C ~ +85 °C
Maximum Series Fuse	25A
Maximum Static Load, Front	5400Pa(112lb/ft ²)
Maximum Static Load, Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

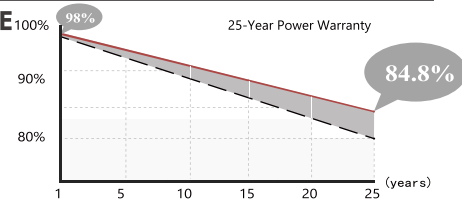
STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM480/132-S3		STM485/132-S3		STM490/132-S3		STM495/132-S3		STM500/132-S3		STM505/132-S3	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	480	361.6	485	365.4	490	369.1	495	372.9	500	376.7	505	380.4
Open Circuit Voltage(Voc/V)	45.07	42.17	45.22	42.31	45.37	42.45	45.52	42.56	45.67	42.73	45.82	42.87
Short Circuit Current(Isc/A)	13.65	11.02	13.72	11.07	13.79	11.13	13.86	11.19	13.93	11.24	14.00	11.30
Voltage at Maximum Power(Vmp/V)	37.65	34.62	37.81	34.80	37.97	34.98	38.13	35.16	38.29	35.34	38.45	35.51
Current at Maximum Power(Imp/A)	12.75	10.44	12.83	10.50	12.90	10.55	12.98	10.60	13.06	10.66	13.13	10.71
Module Efficiency(%)	20.21		20.42		20.64		20.85		21.06		21.27	

TEMPERATURE RATINGS

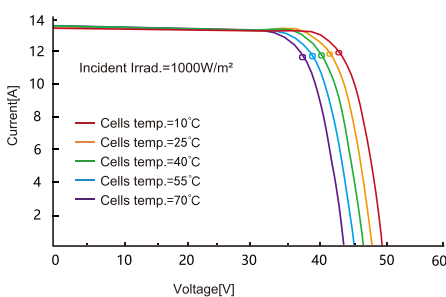
Norminal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/ °C
Temperature Coefficient of Voc	-0.275%/ °C
Temperature Coefficient of Pmax	-0.350%/ °C

ADDITIONAL VALUE

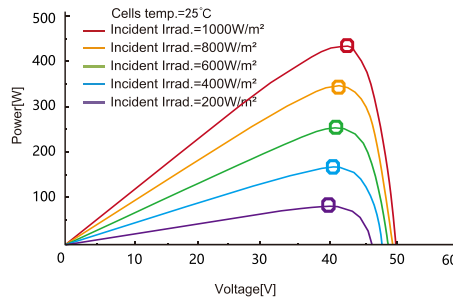


I-V CURVE(STM480-505/132-S3)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

