

# 480~505M

## STM-480-505/132-S3 FULL BLACK

### 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(up to 21.27%) 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



STM-480-505/132-S3

# 480-505W

Half-Cell High Efficiency PV Module

**Weight**

26.0kgs±3%

**Cells Type**

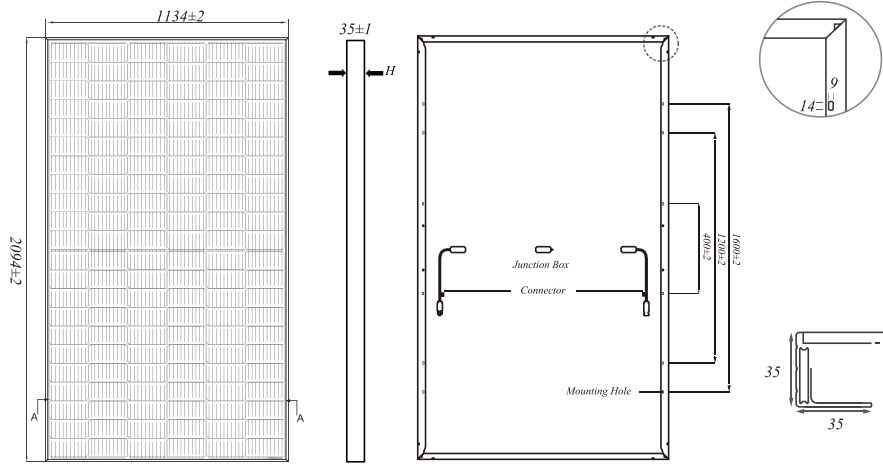
Mono 182x91mm

**Dimension(LxWxT)**

2094±2mmx1134±2mmx35±1mm

**Packaging**

31pcs/pallet, 682pcs/40HQ container



Front

Side

Back

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	4mm²(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 StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	Class II

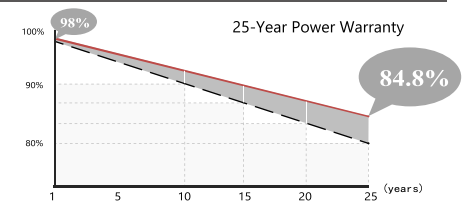
**ELECTRICAL CHARACTERISTICS** STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM-480/132-S3		STM-485/132-S3		STM-490/132-S3		STM-495/132-S3		STM-500/132-S3		STM-505/132-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(STM-480-505/132-S3)**

