

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



IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

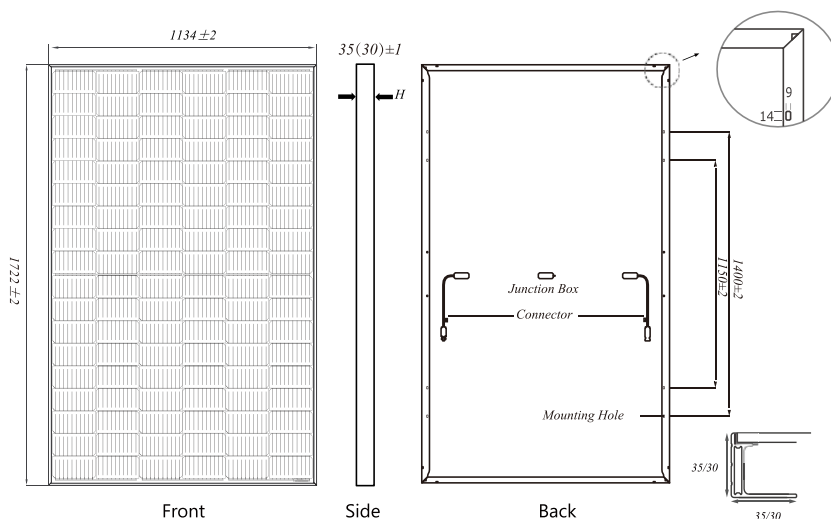


380-410W

STM380-410/108-S3

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
21.0kg±3%	1722x1134x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 182-10BB 31/806pcs 37/962pcs	



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No. of cells	108(6x18)
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

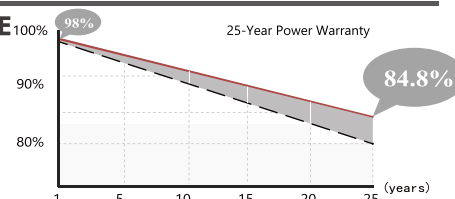
STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM380/108-S3		STM385/108-S3		STM390/108-S3		STM395/108-S3		STM400/108-S3		STM405/108-S3		STM410/108-S3	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	380	286.3	385	290.0	390	293.8	395	297.6	400	301.3	405	305.1	410	308.9
Open Circuit Voltage(Voc/V)	36.31	33.97	36.46	34.11	36.61	34.25	36.76	34.39	36.91	34.53	37.06	34.67	37.21	34.81
Short Circuit Current(Isc/A)	13.40	10.82	13.47	10.87	13.54	10.93	13.61	10.99	13.68	11.04	13.75	11.10	13.82	11.16
Voltage at Maximum Power(Vmp/V)	30.56	27.92	30.72	28.14	30.88	28.36	31.04	28.57	31.20	28.79	31.36	29.00	31.52	29.21
Current at Maximum Power(Imp/A)	12.43	10.25	12.53	10.31	12.63	10.36	12.73	10.41	12.82	10.47	12.91	10.52	13.01	10.57
Module Efficiency(%)	19.46%		19.72%		19.97%		20.23%		20.48%		20.74%		21.00%	

TEMPERATURE RATINGS

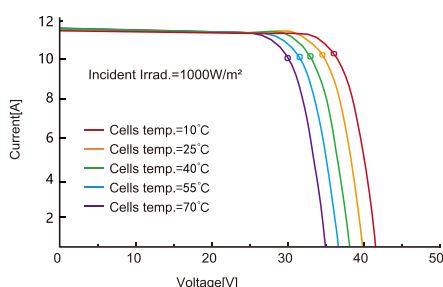
Normal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/ °C
Temperature Coefficient of Voc	-0.275%/ °C
Temperature Coefficient of Pmax	-0.350%/ °C

ADDITIONAL VALUE

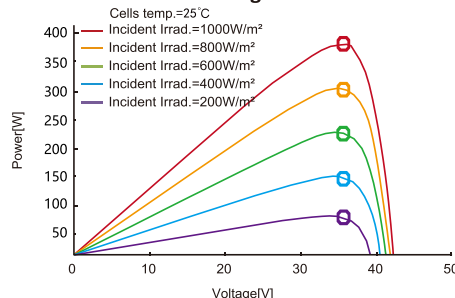


I-V CURVE(STM380-410/108-S3)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

