

166 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

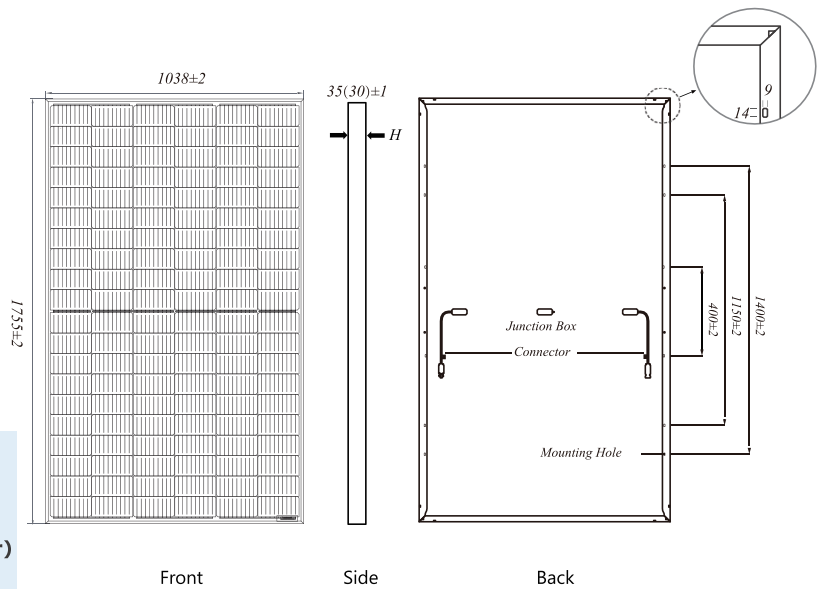


365-395W

STM365-395/120-S2

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
20.5kg±3%	1755x1038x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 166-9BB	31/871pcs 37/1027pcs



Front Side Back
Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No. of cells	120(6x20)
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	20A
Maximum Static Load, Front	5400Pa(112lb/ft ²)
Maximum Static Load, Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

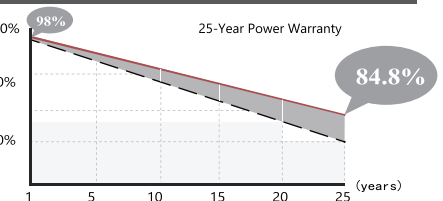
STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM365/120-S2		STM370/120-S2		STM375/120-S2		STM380/120-S2		STM385/120-S2		STM390/120-S2		STM395/120-S2	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	365	275	370	278.7	375	283.4	380	287.1	385	290.9	390	294.7	395	298.5
Open Circuit Voltage(Voc/V)	41.15	38.85	41.30	38.99	41.45	39.05	41.60	39.19	41.75	39.33	41.90	39.47	42.05	39.62
Short Circuit Current(Isc/A)	11.29	9.12	11.35	9.17	11.41	9.22	11.47	9.26	11.53	9.31	11.59	9.36	11.65	9.41
Voltage at Maximum Power(Vmp/V)	33.96	32.11	34.23	32.38	34.50	32.75	34.77	33.01	35.04	33.27	35.31	33.53	35.58	33.78
Current at Maximum Power(Imp/A)	10.75	8.56	10.81	8.61	10.87	8.65	10.93	8.70	10.99	8.74	11.05	8.79	11.11	8.84
Module Efficiency(%)	20.00		20.31		20.59		20.86		21.13		21.41		21.68	

TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.044%/°C
Temperature Coefficient of Voc	-0.272%/°C
Temperature Coefficient of Pmax	-0.350%/°C

ADDITIONAL VALUE



I-V CURVE(STM-365-395/120-S2)

