

# 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



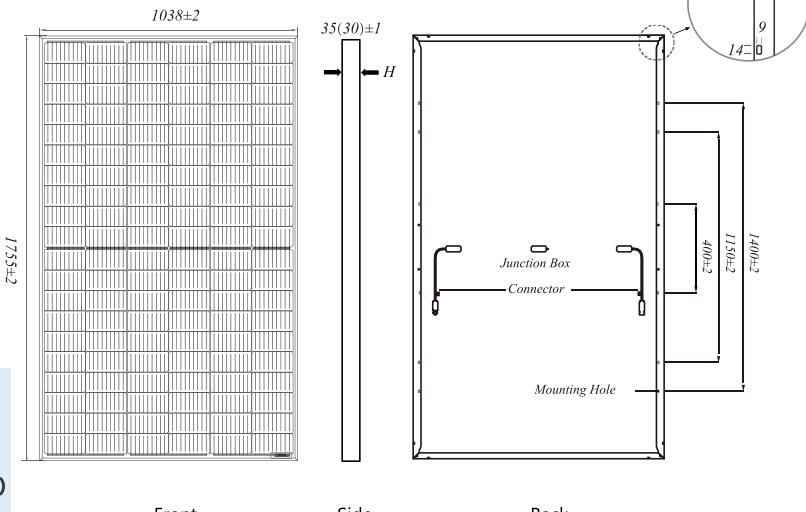


# 365-395W

**STM365-395/120-S2**

Half-Cut Cell High Efficiency PV Module

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



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 <sup>2</sup> (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 StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	Class II

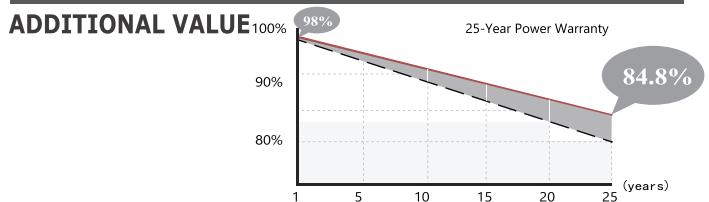
## ELECTRICAL CHARACTERISTICS

STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 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	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												
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	

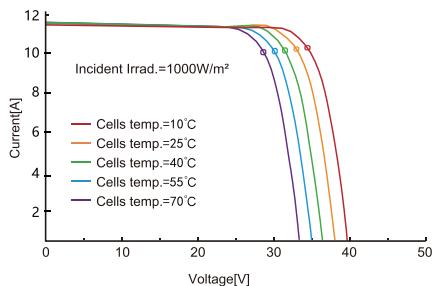
## TEMPERATURE RATINGS

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

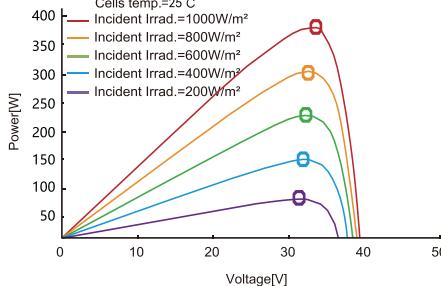


## I-V CURVE(STM-365-395/120-S2)

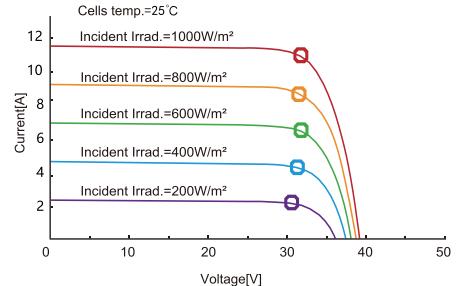
Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve



**Schutten** solar

Add:Weisan Rd,Quanjiao Economic Development Area,Chuzhou City,Anhui Province,China

E-mail:[info@schutten.cn](mailto:info@schutten.cn)

Website:[www.schutten-solar.com](http://www.schutten-solar.com)

The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Schutten Solar reserves the right to make necessary adjustments to the information described herein at any time without further notice.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.