

# HiSpec

396 HALF-CELL MONOFACIAL MODULE

## 345-365 Watt

STPXXS - A66/Ssh



### Features



#### High module conversion efficiency

Module efficiency up to 20.8 % achieved through advanced cell technology and manufacturing process



#### Suntech current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



#### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



#### Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



#### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



#### Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

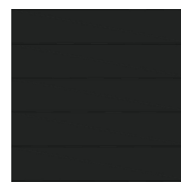
Certifications and standards:  
IEC 61215, IEC 61730, conformity to CE



### Trust Suntech to Deliver Reliable Performance Over Time

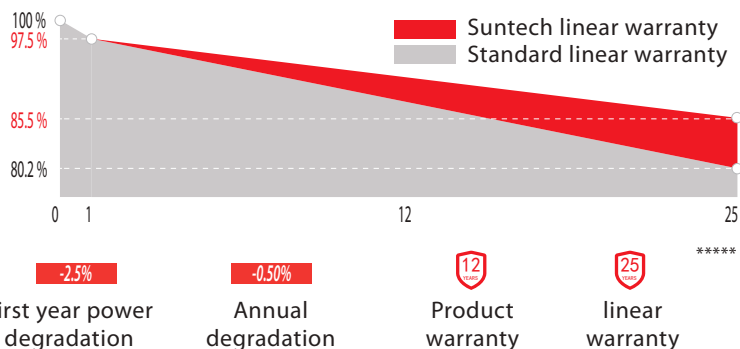
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control of international standards: ISO 9001, ISO 14001 and ISO17025
- Production process regularly and independently checked by international accredited institute/company
- Long-term reliability tests
- 2 x 100% EL inspection to ensure defect-free modules

### HD technology + Half-Cell



HD technology with half-cell effectively eliminates the cell gap and increases power generation area, thus improving power output. The unique circuit design decreases electrodes resistance and the current, so as to get a higher fill factor.

### Industry-leading Warranty based on nominal power



### IP68 Rated Junction Box



The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

\* Please refer to Suntech Standard Module Installation Manual for details. \*\*WEEE only for EU market.  
\*\*\* Please refer to Suntech Product Near-coast Installation Manual for details.  
made in China & Vietnam.

## Electrical Characteristics

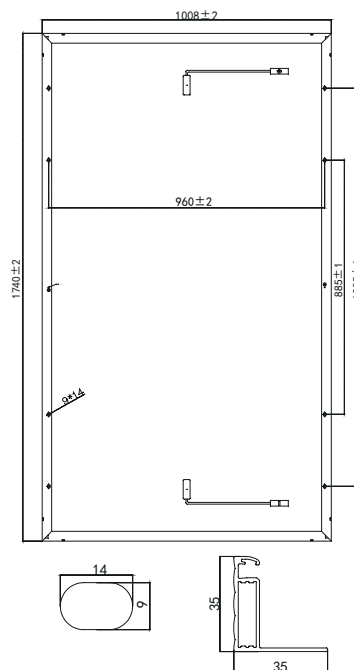


STC	STPXXS-A66/Ssh				
Maximum Power at STC (Pmax)	365 W	360 W	355 W	350 W	345 W
Optimum Operating Voltage (Vmp)	39.93 V	39.60 V	39.26 V	38.93 V	38.59 V
Optimum Operating Current (Imp)	9.14 A	9.09 A	9.04 A	8.99 A	8.94 A
Open Circuit Voltage (Voc)	48.00 V	47.63 V	47.25 V	46.88 V	46.49 V
Short Circuit Current (Isc)	9.73 A	9.68 A	9.63 A	9.58 A	9.53 A
Module Efficiency	20.8%	20.5%	20.2%	20.0%	19.7%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000 V DC (IEC)				
Maximum Series Fuse Rating	20 A				
Power Tolerance	0/+5 W				

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;  
Pmax tolerance +/- 3%; Voc tolerance +/- 2%; Isc tolerance +/- 4%.

NMOT	STPXXS-A66/Ssh				
Maximum Power at NMOT (Pmax)	270 W	266 W	263 W	259 W	255 W
Optimum Operating Voltage (Vmp)	37.80 V	37.50 V	37.30 V	36.90 V	36.50 V
Optimum Operating Current (Imp)	7.14 A	7.10 A	7.06 A	7.02 A	6.98 A
Open Circuit Voltage (Voc)	45.60 V	45.20 V	44.90 V	44.50 V	44.20 V
Short Circuit Current (Isc)	7.85 A	7.81 A	7.77 A	7.73 A	7.69 A

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.



## Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	43 ± 2 °C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.048%/°C

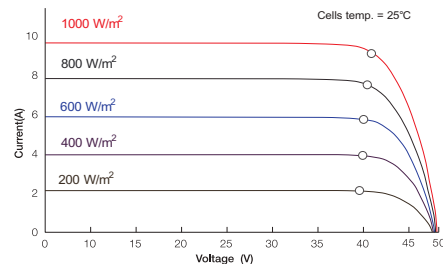
## Mechanical Characteristics

Solar Cell	Mono PERC 158.75mm*26.46mm
No. of Cells	396 (6 × 66)
Dimensions	1740×1008×35mm(L × W × H)
Weight	19.0 kg
Front Glass	3.2 mm
Frame	Anodized aluminium alloy
Junction Box	IP68, 2 bypass diodes
Output Cables	4 mm <sup>2</sup> , cable length 300mm(can be customized)
Connectors	MC4 compatible
Fire Class Rating	C in accordance with UL 790

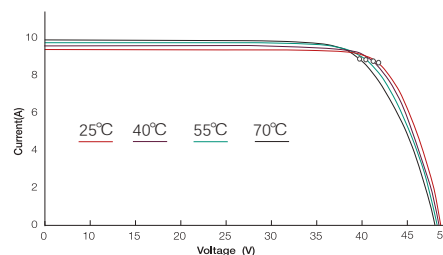
## Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	10	24
Pieces per container	300	720

## I-V curve



## I-V curve



## Dealer information



Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.