## **SUNTECH**

## HyPro STP315S-60/Pfd+ STP310S - 60/Pfd+ STP305S - 60/Pfd+

## 315 Watt MONOCRYSTALLINE BIFACIAL SOLAR MODULE



#### **Features**



**Distributed junction box** Special distributed junction box design avoids shading on the back side

**Higher power output** 

increase up to 25%

The power generation can

# **Excellent weak light**

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



#### **High PID resistant**

Advanced cell technology and qualified materials lead to high resistance to PID



#### **Positive tolerance**

Positive tolerance of up to 5W delivers higher output reliablity



#### Withstanding harsh environment

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

**High efficiency Bifacial PERC** 

By using bifacial PERC cell and

double glass technology, the

frontside power can reach to

315W, and the backside power

generation can increase up to

**IP68 Rated Junction Box** 

cell

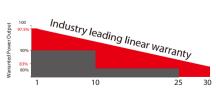
25%.

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



- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68)\*\*
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free

#### Industry-leading Warranty based on nominal power



- 97.5% in the first year, thereafter, for years two (2) through thirty (30), 0.5% maximum decrease from MODULE's nominal power output per year, ending with the 83% in the 30th year after the defined WARRANTY STARTING DATE.\*\*\*
- <sup>30</sup> 12-year product warranty 30-year linear performance warranty



The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

\*WEEE only for EU market.

\*\* Please refer to Suntech Product Near-coast Installation Manual for details. \*\*\* Please refer to Suntech Product Warranty for details.

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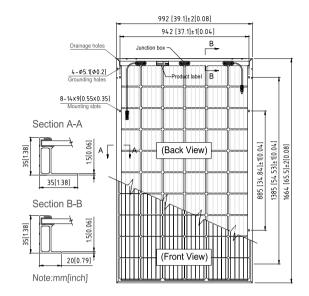


42±2°C

-0.37 %/°C

-0.34 %/°C

0.060 %/°C



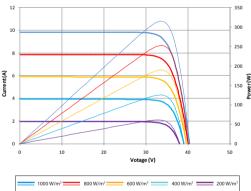
#### **Electrical Characteristics**

STC	STP315S-60/ Pfd+	STP310S-60/ Pfd+	STP305S-60/ Pfd+
Maximum Power at STC (Pmax)	315 W	310 W	305 W
Optimum Operating Voltage (Vmp)	33.3 V	33.1 V	32.9 V
Optimum Operating Current (Imp)	9.48 A	9.37 A	9.28 A
Open Circuit Voltage (Voc)	40.3 V	40.1 V	40.0 V
Short Circuit Current (lsc)	9.98 A	9.90 A	9.82 A
Module Efficiency	19.1%	18.8%	18.5%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1500 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;

STP315S-60/ Pfd+	STP310S-60/ Pfd+	STP305S-60/ Pfd+
235.8 W	233.0 W	229.5 W
31.1 V	30.8 V	30.6 V
7.59 A	7.56 A	7.49 A
37.7 V	37.6 V	37.5 V
8.06 A	8.00 A	7.94 A
	Pfd+ 235.8 W 31.1 V 7.59 A 37.7 V	Pfd+ Pfd+   235.8 W 233.0 W   31.1 V 30.8 V   7.59 A 7.56 A   37.7 V 37.6 V

Current-Voltage & Power-Voltage Curve (315S)



#### **Dealer information**

			 - 350
		$\frown$	- 300
	/		

### **Mechanical Characteristics**

**Temperature Characteristics** 

**Temperature Coefficient of Pmax** 

Temperature Coefficient of Voc

Temperature Coefficient of Isc

Nominal Module Operating Temperature (NMOT)

Solar Cell	Monocrystalline silicon 6 inches	
No. of Cells	60 (6 × 10)	
Dimensions	1664 × 992 × 35mm (65.5 × 39.1 × 1.4 inches)	
Weight	21.7 kgs (47.8 lbs.)	
Front/Back Glass	2.0 mm (0.079 inches) tempered glass	
Frame	Anodized aluminium alloy	
Junction Box	IP68 rated	
Output Cables	4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> ), unsymmetrical lengths (-) 350mm ( 13.8 inches) , (+) 160 mm (6.3 inches)	
Connectors	MC4 EVO2, Cable01S	

#### **Packing Configuration**

Container	20' GP	40′ HC
Pieces per pallet	30	30
Pallets per container	6	26
Pieces per container	180	858

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.

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