

# 270~295P

STP6-270-295/60

### 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

High module efficiency to guarantee power output.



### 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



STP6-270-295/60

# 270-295W

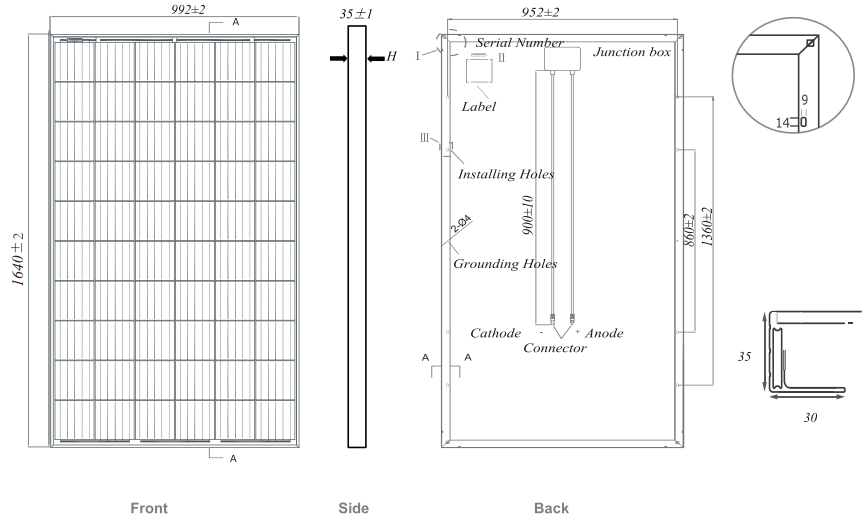
Full-Cell High Efficiency PV Module

**Weight**  
17.5kgs±3%

**Cells Type**  
Poly-crystalline 156.75×156.75mm

**Dimension (L×W×T)**  
1640±2mm x992±2mm x 35±1mm

**Packaging**  
31pcs/pallet, 938pcs/40HQ container  
31pcs/pallet, 372pcs/20GP container



Remark: customized frame color and cable length available upon request

## MECHANICAL SPECIFICATION

No. of cells	60 (6×10)
Front Glass	3.2mm, High Transmission, Low Iron, ARC Tempered Glass
Frame	Anodized Aluminium Alloy
Output Cables	4.0mm, Length: 900mm
Junction Box	IP67 Rated
Connector	MC4 Compatible
Hailstone Impact Test	80Km/h for 25mm ice ball

## OPERATING PARAMETERS

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC (IEC)
Maximum System Voltage	1500VDC (BIS)
Maximum Series Fuse	15A
Maximum Static Load, Front	5400Pa (112lb/ft²)
Maximum Static Load, Back	2400Pa (50lb/ft²)
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

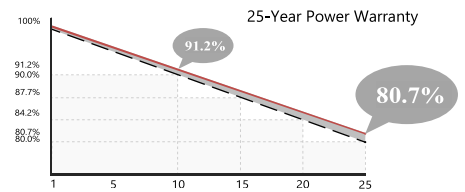
**ELECTRICAL CHARACTERISTICS** STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	STP6 -270/60		STP6 -275/60		STP6 -280/60		STP6 -285/60		STP6 -290/60		STP6 -295/60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	270	202.1	275	205.9	280	209.6	285	213.4	290	217.1	295	220.9
Open Circuit Voltage (Voc/V)	38.82	36.36	39.47	36.97	40.05	37.51	40.38	37.82	40.66	38.08	41.19	38.58
Short Circuit Current (Isc/A)	9.25	7.47	9.29	7.51	9.32	7.53	9.41	7.60	9.51	7.68	9.58	7.74
Voltage at Maximum Power (Vmp/V)	31.70	28.53	31.93	28.94	32.22	29.37	32.61	29.61	32.95	29.81	33.22	30.10
Current at Maximum Power (Imp/A)	8.52	7.08	8.61	7.11	8.69	7.14	8.74	7.21	8.80	7.28	8.88	7.34
Module Efficiency(%)	16.60%		16.90%		17.21%		17.52%		17.83%		18.13%	

## TEMPERATURE RATINGS

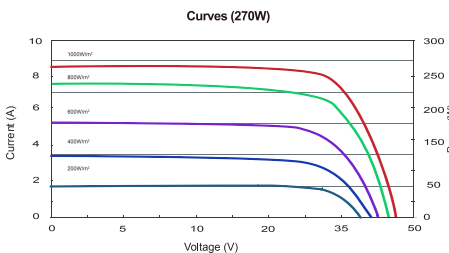
Normal Operating Cell Temperature (NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.05%/ °C
Temperature Coefficient of Voc	-0.27%/ °C
Temperature Coefficient of Pmax	-0.35%/ °C

## ADDITIONAL VALUE

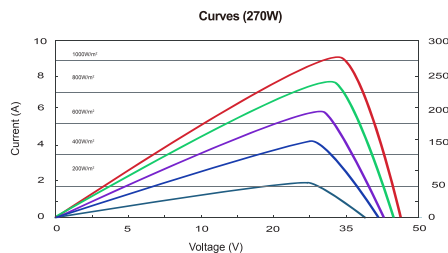


## I-V CURVE (STP6-270-295/60)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

