

## 330 W - 340 W POLY-CRYSTALLINE SOLAR MODULE



### Enhanced Reliability and Power Output

- ✓ More internal reflection, better utilization of sunlight, more power output
- ✓ Enhanced module efficiency up to 17.1 %
- ✓ Innovative half-cut cell technology
- ✓ Less power output loss with new module circuit design
- ✓ Lower internal current, excellent anti-hot-spot performance
- ✓ Low NOCT & low temperature coefficient

### Robust Design

- ✓ Strong anodized aluminum alloy frame
- ✓ Certified by TÜV to withstand up to 2400 Pa wind load and up to 5400 Pa snow load
- ✓ Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting systems

### QUALIFICATIONS AND CERTIFICATES

CE-Compliant, IEC 61215 (Ed.1) application class A, TÜV Safety Class II, UL 1703



### WARRANTY

10 Years: Manufacturing Warranty  
 12 Years Warranty: 90% Power Output  
 25 Years Warranty: 80% Power Output

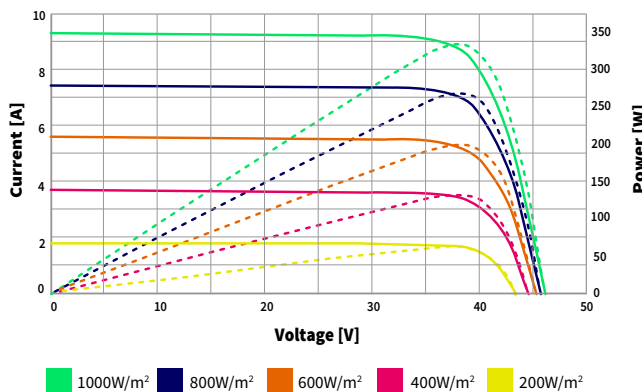
### MECHANICAL CHARACTERISTICS

Cell type	Poly-crystalline
Cell Dimensions	156.75 × 156.75 mm, half-cut
Cell Arrangement	72 (6 × 12)
Weight	23 kg
Module Dimensions	2000 × 992 × 40 mm
Glass	3.2 mm, high transmission, tempered
Connector	MC4 compatible
Cable Length	300 mm
Cable Cross-section Size	4 mm <sup>2</sup>
No. of Bypass Diodes	3/6

# ELECTRICAL CHARACTERISTICS

SOLAR CELLS	POLY-CRYSTALLINE 156.75 × 156.75MM 72 PCS. (6×12) – 5 BUS BARS		
Model	GSP 330 HC	GSP 335 HC	GSP 340 HC
<b>Performance at Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 25°C, AM 1.5, power tolerance -/+3 %</b>			
Maximum Power (Pmax)	330 Wp	335 Wp	340 Wp
Operating Voltage (Vmpp)	37.7 V	38.0 V	38.3 V
Operating Current (Impp)	8.76 A	8.82 A	8.89 A
Open-Circuit Voltage (Voc)	45.9 V	46.2 V	46.4 V
Short-Circuit Current (Isc)	9.27 A	9.34 A	9.40 A
Module Efficiency	16.6 %	16.9 %	17.1 %
<b>Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m<sup>2</sup>, 20°C, AM 1.5, wind speed 1m/s</b>			
Maximum Power (Pmax)	243 Wp	247 Wp	251 Wp
Operating Voltage (Vmpp)	34.6 V	34.9 V	35.1 V
Operating Current (Impp)	7.04 A	7.09 A	7.15 A
Open-Circuit Voltage (Voc)	42.3 V	42.6 V	42.8 V
Short-Circuit Current (Isc)	7.51 A	7.56 A	7.61 A
<b>Temperature Coefficient</b>			
Temperature Coefficient at Pmax	- 0.40 % / °C		
Temperature Coefficient at Voc	- 0.31 % / °C		
Temperature Coefficient at Isc	+ 0.06 % / °C		
Nominal Operating Cell Temperature	45 ± 2 °C		
<b>Operating conditions</b>			
Maximum System Voltage	DC1000 V (IEC) / DC1500 V (IEC)		
Operating Temperature	-40 °C to 85 °C		
Maximum Series Fuse	15 A		
Static Loading	5400 Pa		
Conductivity at Ground	≤ 0.1 Ω		
Resistance	≥ 100 MΩ		
Safety Class	II		

I-V Curves at different irradiance



I-V Curves at different temperature

