

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



- ✓ High reliability of power output
- ✓ PV glass design improves oblique irradiance performance and enhances module yield in low-light and medium-angle-light condition
- ✓ Junction box and by-pass diodes guarantee the modules free of overheating and “hot spot effect”
- ✓ 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
- ✓ Special PV Module Insurances by world leading insurance company guarantees the benefit to PV investors and PV module users

### 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

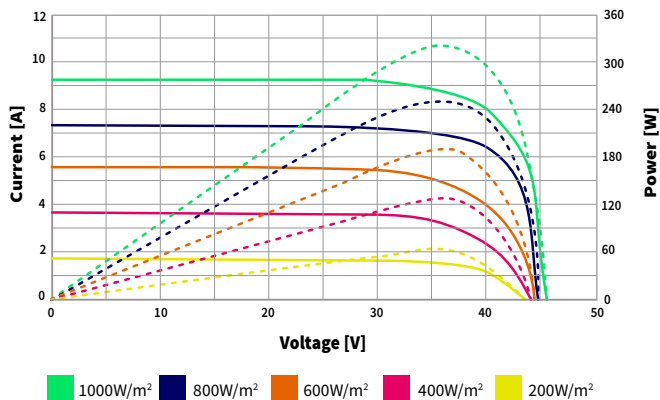
### MECHANICAL CHARACTERISTICS

Cell type	Poly-crystalline
Cell Dimensions	156.75 × 156.75 mm
Cell Arrangement	72 (6 × 12)
Weight	22 kg
Module Dimensions	1660 × 992 × 40 mm
Glass	3.2 mm, high transmission, tempered
Connector	MC4 compatible
Cable Length	1200 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 72PCS. (6×12) – 5 BUS BARS			
Model	GSP 315	GSP 320	GSP 325	GSP 330	
<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)	315 Wp	320 Wp	325 Wp	330 Wp	
Operating Voltage (Vmpp)	36.8 V	37.1 V	37.4 V	37.7 V	
Operating Current (Impp)	8.56 A	8.63 A	8.70 A	8.76 A	
Open-Circuit Voltage (Voc)	45.2 V	45.5 V	45.7 V	45.9 V	
Short-Circuit Current (Isc)	9.11 A	9.16 A	9.22 A	9.27 A	
Module Efficiency	16.2 %	16.5 %	16.7 %	17.0 %	
<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)	232 Wp	236 Wp	240 Wp	243 Wp	
Operating Voltage (Vmpp)	33.8 V	34.1 V	34.4 V	34.6 V	
Operating Current (Impp)	6.88 A	6.92 A	6.98 A	7.04 A	
Open-Circuit Voltage (Voc)	41.7 V	42.0 V	42.2 V	42.3 V	
Short-Circuit Current (Isc)	7.38 A	7.42 A	7.46 A	7.51 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

