

345 W – 350 W Mono-crystalline Solar Module



- Premium series: 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

Certificates



Warranty

10 Years: Manufacturing Warranty

12 Years Warranty: 90% Power Output

25 Years Warranty: 80% Power Output

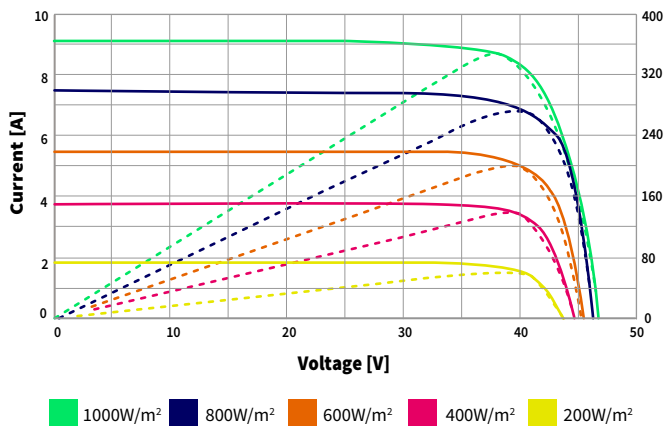
Mechanical Characteristics

Cell type	Mono-crystalline
Cell Dimensions	156.75 × 156.75 mm
Cell Arrangement	72 (6 × 12)
Weight	22 kg
Module Dimensions	1960 × 992 × 40 mm
Glass	3.2 mm, high transmission, tempered
Connector	MC4 compatible
Cable Length	1200 mm
Cable Cross-section Size	4 mm ²
No. of Bypass Diodes	3/6

Electrical Characteristics

SOLAR CELLS		MONO-CRYSTALLINE 156.75 × 156.75MM 72 PCS. (6×12) – 5 BUS BARS	
Model	SEM 345 HE	SEM 350 HE	
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5, positive power tolerance 0/+3 %			
Maximum Power (Pmax)	345 Wp	350 Wp	
Operating Voltage (Vmpp)	38.9 V	39.3 V	
Operating Current (Impp)	8.87 A	8.92 A	
Open-Circuit Voltage (Voc)	47.2 V	47.4 V	
Short-Circuit Current (Isc)	9.43 A	9.50 A	
Module Efficiency	17.7 %	18.0 %	
Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m², 20°C, AM 1.5, wind speed 1m/s			
Maximum Power (Pmax)	255 Wp	259 Wp	
Operating Voltage (Vmpp)	35.7 V	36.0 V	
Operating Current (Impp)	7.15 A	7.21 A	
Open-Circuit Voltage (Voc)	43.7 V	43.8 V	
Short-Circuit Current (Isc)	7.62 A	7.68 A	
Temperature Coefficient			
Temperature Coefficient at Pmax	- 0.39 % / °C		
Temperature Coefficient at Voc	- 0.30 % / °C		
Temperature Coefficient at Isc	+ 0.05 % / °C		
Nominal Operating Cell Temperature	45 ± 2 °C		
Operating conditions			
Maximum System Voltage	DC1000 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

