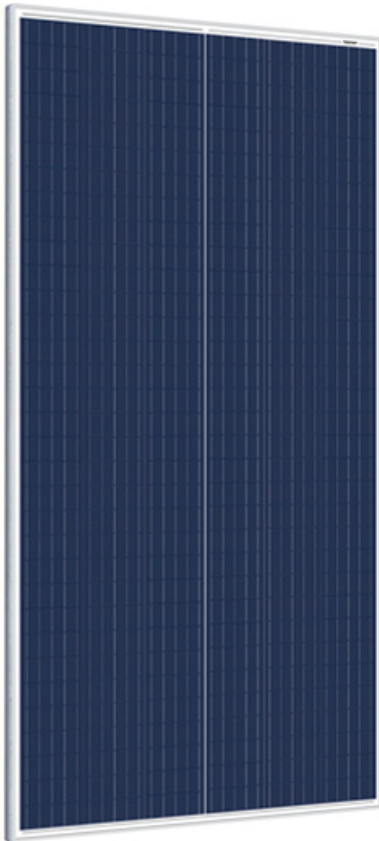


SEP 300/305/310/315/320 W Diamond



- Excellent efficiency – up to 18.48%
- Improved reliability and durability
- Positive power tolerance 0/+5W
- Bankable module
- PID free
- Advanced surface texturing
- Resistance to sand and dust abrasion
- Safety for salt mist and ammonia corrosion
- Outstanding power output capability at low irradiance
- Triple 100% EL tests
- 3800 Pa wind load and 5400 Pa snow load (900 kg snow load per module); 35 mm hail stones at 97 km/h

Certificates

CE-Compliant, IEC 61215-1 (ed.1), IEC 61215-1-1 (ed.1), IEC 61215-2 (ed.1), IEC 61730-1 (ed.2), IEC 61730-2 (ed.2), application class A, Safety Class II, UL 1703



Warranty

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

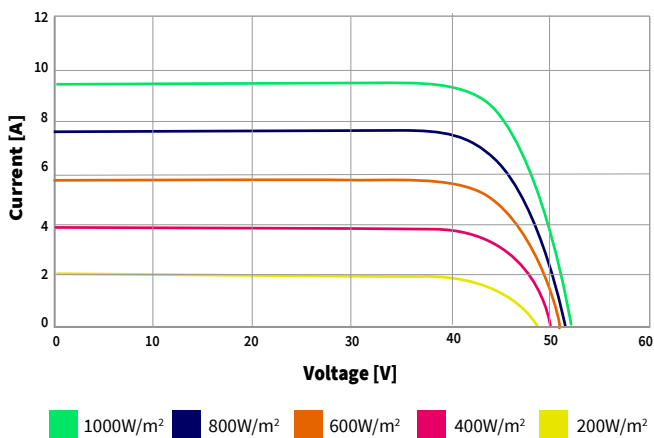
Mechanical Characteristics

Solar Cells	Poly-crystalline silicon
Module Dimensions	1762 × 983 × 35 mm
Weight	19.5 kg
Front Glass	3.2 mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame	Anodized aluminum alloy
Junction Box	IP67
Output Cables	4.0 mm ² PV special cable
Connectors	MC4 compatible

Electrical Characteristics

Model	SEP 300 Diamond	SEP 305 Diamond	SEP 310 Diamond	SEP 315 Diamond	SEP 320 Diamond
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5					
Maximum Power (Pmax)	300 W	305 W	310 W	315 W	320 W
Operating Voltage (Vmpp)	35.22 V	35.51 V	35.80 V	36.09 V	36.37 V
Operating Current (Impp)	8.52 A	8.59 A	8.66 A	8.73 V	8.80 V
Open-Circuit Voltage (Voc)	42.11 V	42.31 V	42.66 V	43.01 V	43.37 V
Short-Circuit Current (Isc)	8.99 A	9.06 A	9.13 A	9.20 A	9.27 A
Module Efficiency	17,32%	17,61%	17,90%	18,19%	18,48%
Performance at Nominal Module Operating Temperature (NMOT)					
Maximum Power (Pmax)	222 W	226 W	230 W	234 W	238 W
Operating Voltage (Vmpp)	31.15 V	31.18 V	31.21 V	31.24 V	31.28 V
Operating Current (Impp)	7.16 A	7.27 A	7.39 A	7.51 A	7.63 A
Open-Circuit Voltage (Voc)	38.86 V	38.90 V	38.94 V	38.98 V	39.02 V
Short-Circuit Current (Isc)	7.61 A	7.69 A	7.76 A	7.84 A	7.92 A
Power Tolerance	0 / +5 W				
Maximum System Voltage	1000 V				
Temperature Characteristics					
Temp. Coefficient at Pmax				- 0.365 % / °C	
Temp. Coefficient at Voc				- 0.303 % / °C	
Temp. Coefficient at Isc				0.059% / °C	
Nominal Operating Cell Temp.				42 ± 3 °C	
Operating Temp.				-40 °C to 85 °C	

Current-Voltage Curve (320W)



Power-Voltage Curve (320W)

