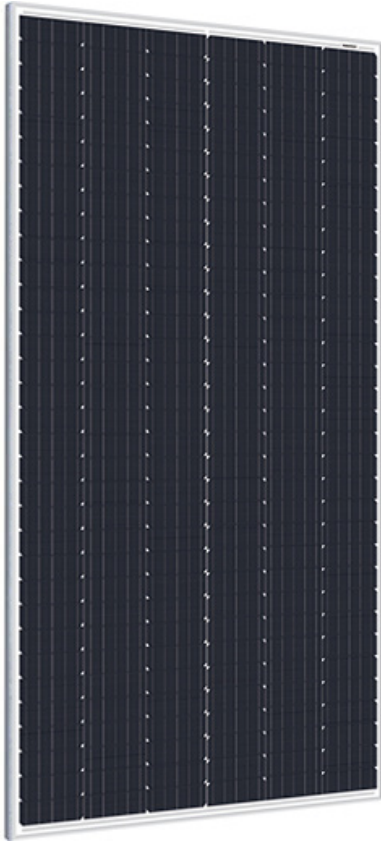


# SEM 315/320/325/330/335/340/345 W Diamond



- Excellent efficiency – up to 19.92%
- 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

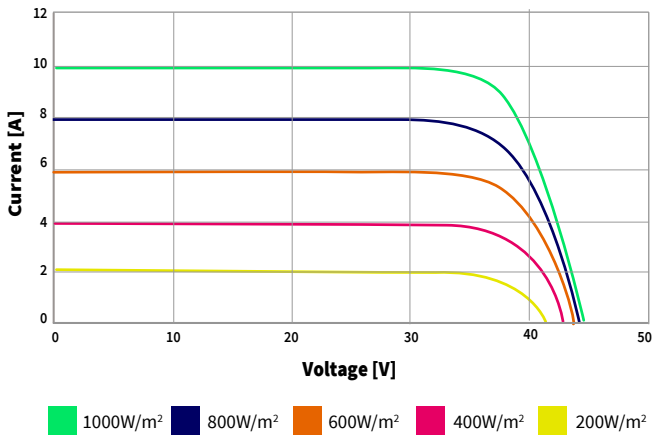
## Mechanical Characteristics

Solar Cells	Mono-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 <sup>2</sup> PV special cable
Connectors	MC4 compatible

# Electrical Characteristics

Model	SEM 315 Diamond	SEM 320 Diamond	SEM 325 Diamond	SEM 330 Diamond	SEM 335 Diamond	SEM 340 Diamond	SEM 345 Diamond
<b>Performance at Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 25°C, AM 1.5</b>							
Maximum Power (Pmax)	315 W	320 W	325 W	330 W	335 W	340 W	345 W
Operating Voltage (Vmpp)	36.09 V	36.29 V	36.49 V	36.68 V	36.86 V	37.05 V	37.23 V
Operating Current (Impp)	8.73 A	8.82 A	8.91 A	9.00 V	9.09 V	9.18 V	9.27 V
Open-Circuit Voltage (Voc)	43.06 V	43.30 V	43.55 V	43.72 V	43.98 V	44.23 V	44.45 V
Short-Circuit Current (Isc)	9.18 A	9.27 A	9.36 A	9.45 A	9.54 A	9.63 A	9.72 A
Module Efficiency	18,19%	18,48%	18,76%	19,05%	19,34%	19,63%	19,92%
<b>Performance at Nominal Module Operating Temperature (NMOT)</b>							
Maximum Power (Pmax)	235 W	238 W	241 W	245 W	249 W	252 W	256 W
Operating Voltage (Vmpp)	32.87 V	32.86 V	32.89 V	32.92 V	32.95 V	32.99 V	33.02 V
Operating Current (Impp)	7.15 A	7.25 A	7.35 A	7.45 A	7.56 A	7.66 A	7.75 A
Open-Circuit Voltage (Voc)	40.02 V	40.11 V	40.15 V	40.19 V	40.23 V	40.27 V	40.31 V
Short-Circuit Current (Isc)	7.60 A	7.68 A	7.76 A	7.83 A	7.91 A	7.99 A	8.07 A
Power Tolerance				0 / +5 W			
Maximum System Voltage				1000 V			
<b>Temperature Characteristics</b>							
Temp. Coefficient at Pmax				- 0.308 % / °C			
Temp. Coefficient at Voc				- 0.243 % / °C			
Temp. Coefficient at Isc				0.047% / °C			
Nominal Operating Cell Temp.				42 ± 3 °C			
Operating Temp.				-40 °C to 85 °C			

Current-Voltage Curve (345W)



Power-Voltage Curve (345W)

