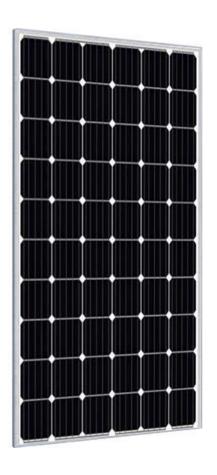


SEM 300W/305W/310W/315W/320W



- Excellent module efficiency up to 19.67%
- 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
- · Safety for fire risk
- 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 Warranty12 Years Warranty: 90% Power Output25 Years Warranty: 80% Power Output

Mechanical Characteristics

Solar Cells	Mono-crystalline silicon
No. of Cells	60 (6 × 10)
Module Dimensions	1640 × 992 × 35 mm
Weight	18.5 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	SEM 300	SEM 305	SEM 310	SEM 315	SEM 320		
Performance at Standard Test Con	ditions (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)	32.65 V	32.91 V	33.25 V	33.55 V	33.87 V		
Operating Current (Impp)	9.20 A	9.27 A	9.33 A	9.39 V	9.45 V		
Open-Circuit Voltage (Voc)	39.84 V	40.15 V	40.63 V	40.91 V	41.30 V		
Short-Circuit Current (Isc)	9.72 A	9.79 A	9.85 A	9.91 A	9.97 A		
Module Efficiency	18,44%	18,75%	19,05%	19,36%	19,67%		
Performance at Nominal Operating	g Cell Temperature (N	IOCT): 800 W/m²,	20°C, AM 1.5, win	d speed 1m/s			
Maximum Power (Pmax)	222 W	226 W	229 W	232 W	235 W		
Operating Voltage (Vmpp)	30.12 V	30.42 V	30.66 V	30.90 V	31.14 V		
Operating Current (Impp)	7.38 A	7.43 A	7.47 A	7.51 A	7.55 A		
Open-Circuit Voltage (Voc)	37.21 V	37.62 V	37.85 V	38.13 V	38.40 V		
Short-Circuit Current (Isc)	7.75 A	7.80 A	7.85 A	7.90 A	7.95 A		
Power Tolerance	0 / +5 W						
Maximum System Voltage	1000 V						
Temperature Characteristics							
Temp. Coefficient at Pmax	– 0.393 % / °C						
Temp. Coefficient at Voc	– 0.31 % / °C						
Temp. Coefficient at Isc	0.041% / °C						
Nominal Operating Cell Temp.	45 ± 2 °C						
Operating Temp.	-40 °C to 85 °C						

