

SEM 375W/380W/385W



- Excellent module efficiency – up to 19.83%
- 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 Warranty
 12 Years Warranty: 90% Power Output
 25 Years Warranty: 80% Power Output

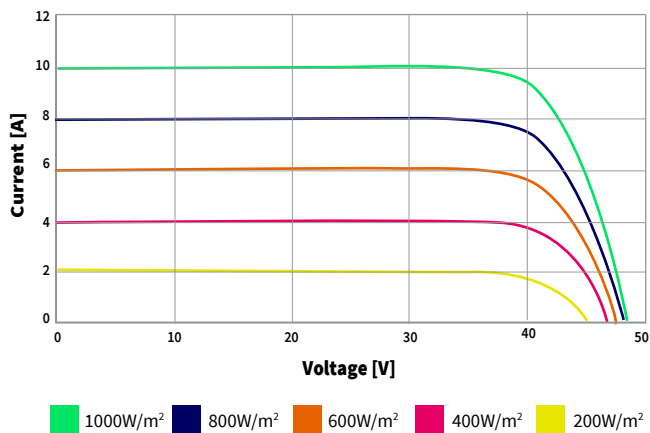
Mechanical Characteristics

Solar Cells	Mono-crystalline silicon
No. of Cells	72 (6 × 12)
Module Dimensions	1957 × 992 × 40 mm
Weight	21.5 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 375	SEM 380	SEM 385
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5			
Maximum Power (Pmax)	375 W	380 W	385 W
Operating Voltage (Vmpp)	39.81 V	40.05 V	40.28 V
Operating Current (Impp)	9.42 A	9.49 A	9.56 A
Open-Circuit Voltage (Voc)	48.52 V	48.82 V	49.07 V
Short-Circuit Current (Isc)	9.92 A	9.99 A	10.06 A
Module Efficiency	19,32%	19,57%	19,83%
Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m², 20°C, AM 1.5, wind speed 1m/s			
Maximum Power (Pmax)	278 W	282 W	286 W
Operating Voltage (Vmpp)	37.07 V	37.41 V	37.74 V
Operating Current (Impp)	7.50 A	7.54 A	7.58 A
Open-Circuit Voltage (Voc)	45.53 V	45.90 V	46.20 V
Short-Circuit Current (Isc)	7.97 A	8.02 A	8.07 A
Power Tolerance		0 / +5 W	
Maximum System Voltage		1500 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	

Current-Voltage Curve (375W)



Power-Voltage Curve (375 W)

