

SEP 290W/295W/300W HC



- Excellent module efficiency – up to 17.8%
- 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	Poly-crystalline silicon
No. of Cells	120 (6 × 20)
Module Dimensions	1684 × 1002 × 35 mm
Weight	19.0 kg
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ²
Connectors	MC4 compatible (1000V), MC4 EVO2, Cable 01S (1500V)

Electrical Characteristics

Model	SEP 290 HC	SEP 295 HC	SEP 300 HC
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5			
Maximum Power (Pmax)	290 W	295 W	300 W
Operating Voltage (Vmpp)	32.3 V	32.5 V	32.7 V
Operating Current (Impp)	8.99 A	9.08 A	9.18 A
Open-Circuit Voltage (Voc)	39.0 V	39.2 V	39.4 V
Short-Circuit Current (Isc)	9.47 A	9.55 A	9.62 A
Module Efficiency	17.20%	17.50%	17.80%
Performance at Nominal Module Operating Temperature (NMOT)			
Maximum Power (Pmax)	216.8 W	221.5 W	224.1 W
Operating Voltage (Vmpp)	29.8 V	30.2 V	30.3 V
Operating Current (Impp)	7.27 A	7.34 A	7.40 A
Open-Circuit Voltage (Voc)	36.3 V	36.6 V	36.6 V
Short-Circuit Current (Isc)	7.67 A	7.73 A	7.79 A
Power Tolerance		0 / +5 W	
Maximum System Voltage		1000 VDC / 1500 VDC (IEC)	
Maximum Series Fuse		20 A	
Temperature Characteristics			
Temperature Coefficient at Pmax		- 0.38 % / °C	
Temperature Coefficient at Voc		- 0.321 % / °C	
Temperature Coefficient at Isc		0.05 % / °C	
Nominal Operating Cell Temperature		42 ± 2 °C	
Operating Temperature		-40 °C to 85 °C	

Current-Voltage & Power-Voltage Curve (300)

