

SEP 280W/285W/290W



- Excellent module efficiency up to 17.83%
- 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 Warranty12 Years Warranty: 90% Power Output25 Years Warranty: 80% Power Output

Mechanical Characteristics

Solar Cells	Poly-crystalline silicon
No. of Cells	60 (6 × 10)
Module Dimensions	1640 × 992 × 35
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	SEP 280	SEP 285	SEP 290	
Performance at Standard Test Condit	ions (STC): 1000 W/m ² , 25°C, A	AM 1.5		
Maximum Power (Pmax)	280 W	285 W	290 W	
Operating Voltage (Vmpp)	31.75 V	32.10 V	32.44 V	
Operating Current (Impp)	8.82 A	8.88 A	8.94 A	
Open-Circuit Voltage (Voc)	39.91 V	39.27 V	39.69 V	
Short-Circuit Current (Isc)	9.30 A	9.37 A	9.44 A	
Module Efficiency	17,21%	17,52%	17,83%	
Performance at Nominal Operating C	ell Temperature (NOCT) : 800	W/m ² , 20°C, AM 1.5, wind spe	ed 1m/s	
Maximum Power (Pmax)	207 W	211 W	215 W	
Operating Voltage (Vmpp)	29.79 V	30.06 V	30.33 V	
Operating Current (Impp)	6.95 A	7.02 A	7.09 A	
Open-Circuit Voltage (Voc)	36.97 V	37.43 V	37.89 V	
Short-Circuit Current (Isc)	7.36 A	7.41 A	7.46 A	
Module Efficiency	16.50 %	16.80 %	17.11 %	
Power Tolerance	0 / +5 W			
Maximum System Voltage	1000 V			
Temperature Characteristics				
Temp. Coefficient at Pmax	– 0.394 % / °C			
Temp. Coefficient at Voc	– 0.307 % / °C			
Temp. Coefficient at Isc	0.04% / °C			
Nominal Operating Cell Temp.	45 ± 2 °C			
Operating Temp.	-40 °C to 85 °C			





