

GSM 300W/305W/310W/315W HE



- ✓ Excellent module efficiency 19.3%
- ✓ 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

QUALIFICATIONS AND CERTIFICATES

CE-Compliant, IEC 61215 (Ed.1) application class A, TÜV Safety Class II, UL 1703



WARRANTY

15 Years: Manufacturing Warranty
12 Years Warranty: 90% Power Output
25 Years Warranty: 80% Power Output

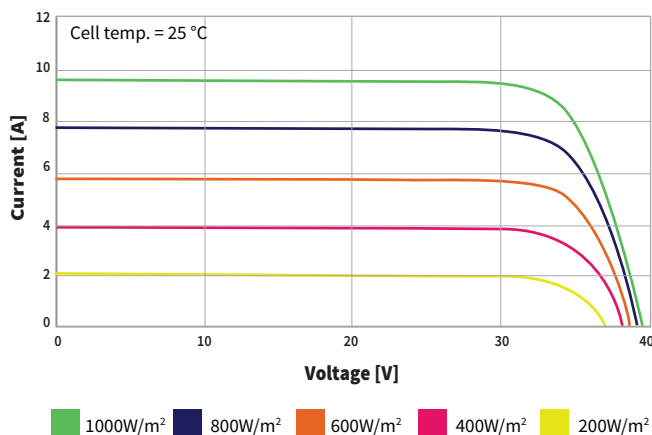
MECHANICAL CHARACTERISTICS

Cell type	Mono-crystalline, 5 bus bars
No. of Cells	60 (6 × 10)
Module Dimensions	1640 × 992 × 35/40 mm (also available: 1650 × 992 × 35/40 mm)
Weight	18.0 kg
Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminum alloy
Junction Box	IP67
Connector	MC4 compatible
Output Cables	4.0 mm ² , length 900 mm
Mechanical load	5400 Pa

ELECTRICAL CHARACTERISTICS

Model	GSM 300 HE	GSM 305 HE	GSM 310 HE	GSM 315 HE
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5				
Maximum Power (Pmax)	300 W	305 W	310 W	315 W
Operating Voltage (Vmpp)	32.1 V	32.3 V	32.6 V	32.8 V
Operating Current (Impp)	9.35 A	9.45 A	9.51 A	9.61 A
Open-Circuit Voltage (Voc)	39.7 V	39.9 V	40.2 V	40.4 V
Short-Circuit Current (Isc)	9.65 A	9.76 A	9.82 A	9.92 A
Module Efficiency	18.44 %	18.75 %	19.05 %	19.36 %
Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m², 20°C, AM 1.5, wind speed 1m/s				
Maximum Power (Pmax)	223 W	226 W	230 W	234 W
Operating Voltage (Vmpp)	30.3 V	30.4 V	30.7 V	30.9 V
Operating Current (Impp)	7.36 A	7.44 A	7.50 A	7.58 A
Open-Circuit Voltage (Voc)	36.7 V	36.8 V	37.1 V	37.3 V
Short-Circuit Current (Isc)	7.82 A	7.91 A	7.96 A	8.05 A
Module Efficiency	18.33 %	18.63 %	18.94 %	19.24 %
Power Tolerance	0 / +4.99 W			
Maximum System Voltage	1000 VDC / 1500 VDC			
Maximum Series Fuse	20 A			
Temperature Characteristics				
Temperature Coefficient at Pmax	- 0.38 % / °C			
Temperature Coefficient at Voc	- 0.28 % / °C			
Temperature Coefficient at Isc	+ 0.05 % / °C			
Nominal Operating Cell Temperature	45 ± 2 °C			
Operating Temperature	-40 °C to 85 °C			

I-V Curves at different irradiance



I-V Curves at different temperature

