

GSM 400W/405W/410W HC



- ✓ Excellent module efficiency – up to 20.2%
- ✓ 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 61215-1 (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	144 (6 × 24)
Module Dimensions	2028 × 1002 × 35 mm
Weight	27.0 kg
Front Glass	2.0 mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0 mm ²
Connectors	MC4 compatible (1000V), MC4 EV02, Cable 01S (1500V)
Mechanical load	5400 Pa

ELECTRICAL CHARACTERISTICS

Model	GSM 400 HC	GSM 405 HC	GSM 410 HC
Performance at Standard Test Conditions (STC): 1000 W/m², 25°C, AM 1.5			
Maximum Power (Pmax)	400 W	405 W	410 W
Operating Voltage (Vmpp)	40.7 V	40.9 V	41.1 V
Operating Current (Impp)	9.83 A	9.91 A	9.98 A
Open-Circuit Voltage (Voc)	48.5 V	48.7 V	48.9 V
Short-Circuit Current (Isc)	10.34 A	10.42 A	10.49 A
Module Efficiency	19.70%	20.00%	20.20%
Performance at Nominal Module Operating Temperature (NMOT)			
Maximum Power (Pmax)	300.6 W	304.6 W	308.2 W
Operating Voltage (Vmpp)	37.8 V	38.1 V	38.2 V
Operating Current (Impp)	7.95 A	8.0 A	8.06 A
Open-Circuit Voltage (Voc)	45.4 V	45.7 V	45.9 V
Short-Circuit Current (Isc)	8.35 A	8.41 A	8.46 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	− 0.37 % / °C		
Temperature Coefficient at Voc	− 0.304 % / °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 (4105)

