

PREMIUM

HG425U-SM12

405-425Wp

MONOFACIAL SHINGLED PERC



G12 PERC Shingled Technology provides ultra-high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



Various tests under harsh environmental conditions such as ammonia and salt-mist passed.

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules



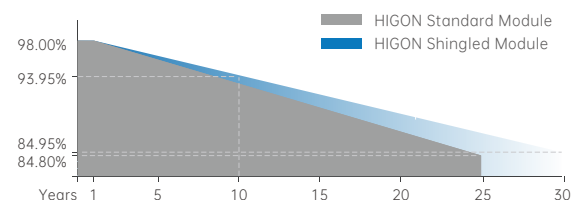
THE IDEAL SOLUTION FOR:



Commercial Rooftop
Residential Rooftop

Performance Warranty

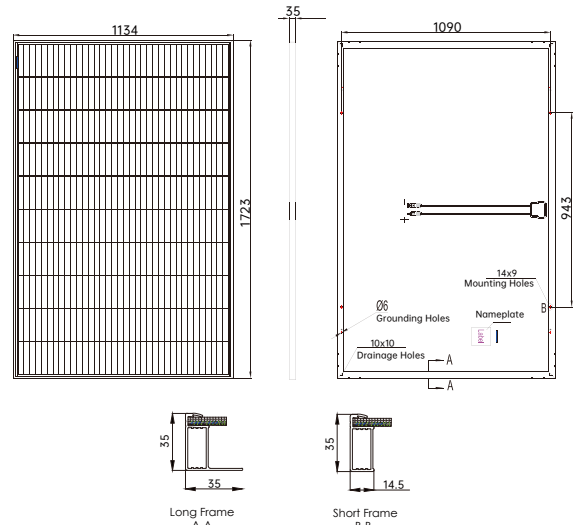
- 15 Years Product Warranty
- 30 Years Linear Power Warranty
- 2% Degradation in 1st year
- 4.5% Annual Degradation Over 30 Years



PREMIUM HGXXXU-SM12(XXX=405-425Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 210mm
No. of Cells	256 (8×32)
Dimensions	1723×1134×35mm
Weight	20.9 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm/1200mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	410		415		420		425	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	410	307	415	311	420	315	425	320
Operating Voltage(Vmp/V)	38.31	34.31	38.32	34.41	38.44	34.51	38.56	34.62
Operating Current(Imp/A)	10.71	8.95	10.83	9.04	10.93	9.13	11.02	9.24
Open-Circuit Voltage(Voc/V)	43.61	41.23	43.66	41.33	43.68	41.44	43.72	41.55
Short-Circuit Current(Isc/A)	11.44	9.40	11.53	9.49	11.54	9.59	12.01	9.68
Module Efficiency(%)	21.0		21.3		21.5		21.8	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;

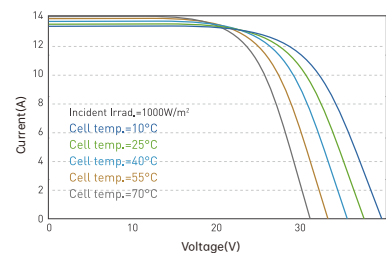
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Temperature Characteristics

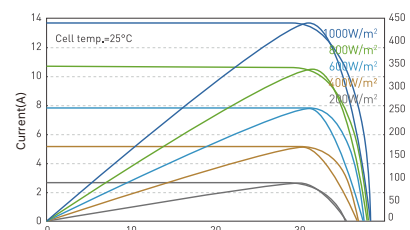
Nominal Module Operating Temperature (NMOT)	43 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°C

Graphs

I-V Curve at different Temperature (420W)



I-V/P-V Curve at different Irradiation (420W)



Packing Configuration



Notice: All data and specifications are preliminary and subject to change without notice.

Contact Us for More Information

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TASTE THE SUN