



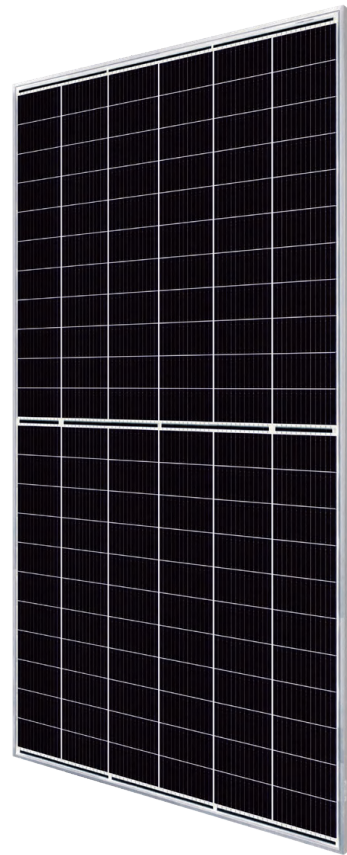


PHOTON 5

HG-66HC12
Monofacial Module

680~700W

-  PERC / Half-cut / 210 Cells
-  Low temperature coefficient
-  PID resistance
-  Low BOS cost & LCOE



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:



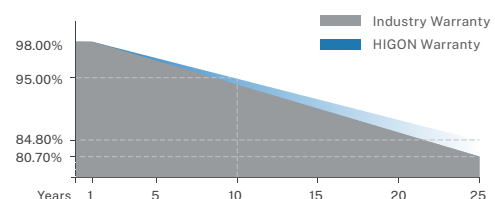
Ground-mounted solar plants



Commercial Rooftop
Residential Rooftop

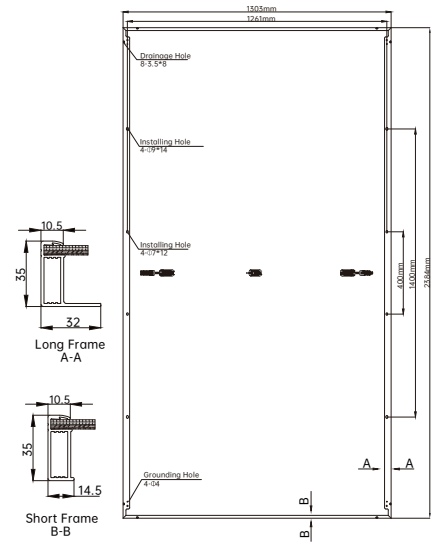
Performance Warranty

- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Annual Degradation Over 25 Years



Mechanical Characteristics

Solar Cell	P-Type mono-crystalline
No. of Cells	132 (6×22)
Dimensions	2384×1303×35mm
Weight	34.2kg
Frame	Silver, Anodized Aluminum Alloy
Glass	3.2mm coated tempered glass
Output Cables	4mm ² , 300mm(including connector)
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	30A
Mechanical Load	5400Pa(Front)/ 2400Pa(Back)



Electrical Characteristics

POWER CLASS	680		685		690		695		700	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	680	514.5	685	518.3	690	522.1	695	525.9	700	529.7
Operating Voltage(Vmp/V)	38.60	36.01	38.6	36.20	38.80	36.39	39.00	36.58	39.2	36.77
Operating Current(Imp/A)	17.62	14.29	17.75	14.32	17.78	14.35	17.82	14.38	17.86	14.40
Open-Circuit Voltage(Voc/V)	46.40	43.90	46.60	44.09	46.80	44.28	47.00	44.47	47.2	44.66
Short-Circuit Current(Isc/A)	18.80	15.12	18.85	15.16	18.90	15.20	18.95	15.24	19.00	15.28
Module Efficiency(%)	21.9		22.0		22.2		22.4		22.5	

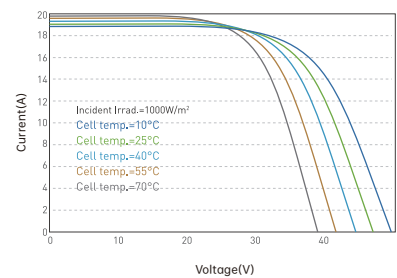
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
 NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Temperature Characteristics

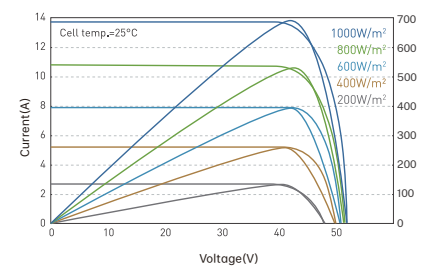
Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C

Graphs

I-V Curve at different Temperature (690W)



I-V/P-V Curve at different Irradiation (690W)



Packing Configuration

