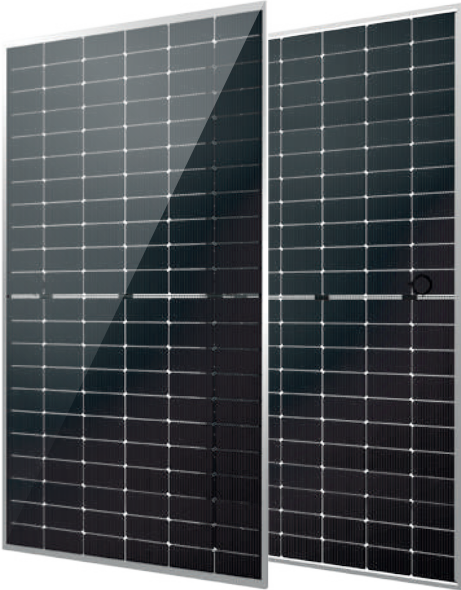




HW-7N66HC-BF

600W~620W

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module output up to 620W with module efficiency up to 23.00% by using the most advanced , N-Type TOPCon cell technology.
- Transparent double glass with excellent fire rating, with better temperature coefficient.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- Superior performance under high temperature and low light conditions.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc).
- More power gain up to 30% by utilizing the ambient light reflected from surrounding surface.

CERTIFICATIONS

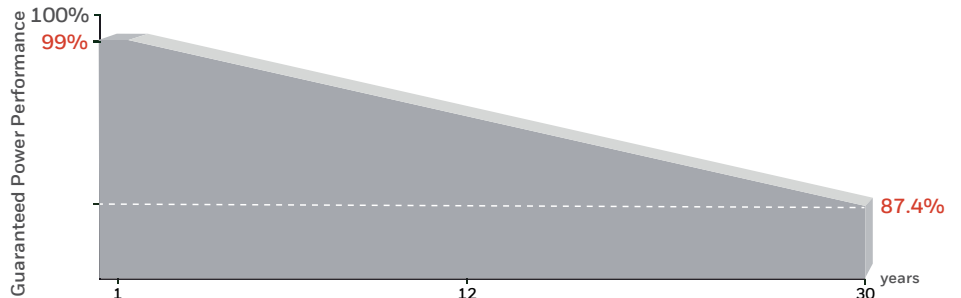
- IEC 61215 (2021), IEC 61730(2023), IEC 61701
- IEC 61215-2 (bifaciality): 2021
- ISO 9001:2015: Quality Management System
- ISO 14001:2015: Environment Management System
- ISO 45001:2018: Occupational health and safety management system



SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty
- < 1 % First year power degradation
- < 0.4 % Year 2-30 power degradation

Passionately
committed to
delivering innovative
energy solutions



ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P _{max})	600W	605W	610W	615W	620W
Open Circuit Voltage (V _{oc})	47.70 V	47.90 V	48.10 V	48.30V	48.50 V
Short Circuit Current (I _{sc})	15.95 A	16.00 A	16.05 A	16.10 A	16.15 A
Maximum Power Voltage (V _{mp})	39.44 V	39.60 V	39.77 V	39.96 V	40.15 V
Maximum Power Current(I _{mp})	15.21 A	15.28 A	15.34 A	15.39 A	15.45 A
Module Efficiency (%)	22.20 %	22.40 %	22.60 %	22.80 %	23.00 %
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Safety Class	Class A				
Maximum Series Fuse	25 A				

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P _{max})	453.60 W	457.38 W	461.16 W	464.94 W	468.72 W
Open Circuit Voltage (V _{oc})	44.84 V	45.03 V	45.21 V	45.40 V	45.58 V
Short Circuit Current (I _{sc})	12.68 A	12.72 A	12.76 A	12.80 A	12.84 A
Voltage at Maximum Power (V _{mp})	37.27 V	37.42 V	37.58 V	37.76 V	37.94 V
Current at Maximum Power (I _{mp})	12.17A	12.22 A	12.27 A	12.31 A	12.36A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

Module Type	600M	605M	610M	615M	620M
Maximum Power (Wp)	648W	653W	658W	663W	668.5W
Open Circuit Voltage (V _{oc})	47.7V	47.9V	48.1V	48.3V	48.5V
Short Circuit Current (I _{sc})	17.2A	17.26V	17.32A	17.37V	17.42A
Maximum Power Voltage (V _m)	39.44V	39.6V	39.77V	39.96V	40.15V
Maximum Power Current (I _m)	16.43A	16.49A	16.55A	16.6A	16.65A

*Bifacial=P_{max,Rear}/Rated P_{max, Front}

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline Silicon N-type, Bifacial (182x210mm)
Number of cells	132 (6x11x2)
Module dimensions	2382x1134x30mm
Weight	32.5kg
Front / Back cover	low-iron tempered glass 2.0 / 2.0 mm
Frame	Aluminum hollow-chamber frame, anodized aluminum alloy silver
Junction box	IP68, 3 diodes
Cable	4mm ² , 300mm in length, length can be customized
Connector	MC4 compatible

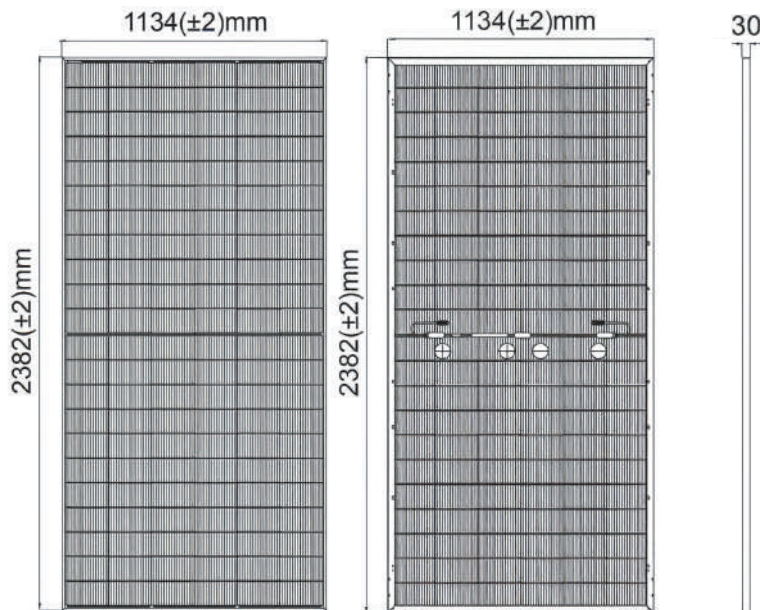
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P _{max}	-0.30%/°C
Temperature Coefficients of V _{OC}	-0.24%/°C
Temperature Coefficients of I _{SC}	0.043%/°C

PACKAGING

Standard packaging	36 pcs/pallet
Module quantity per 20' container	180 pcs
Module quantity per 40' container	720 pcs (HQ)

ENGINEERING DRAWINGS



CURRENT-VOLTAGE CURVES

