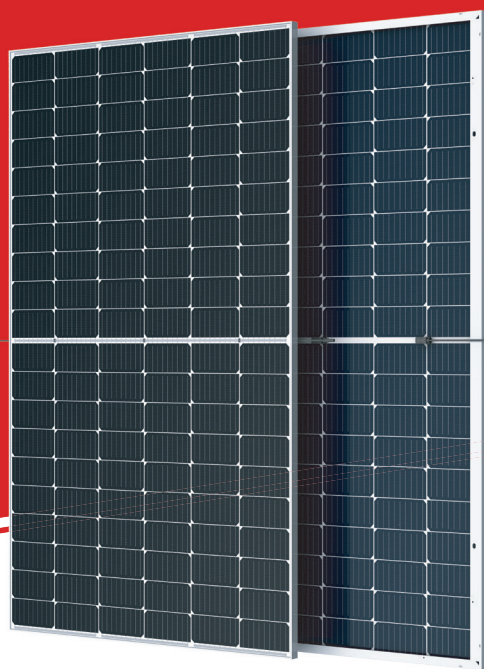




GPNE-S120/FNH-BG

350-375w

BIFACIAL DUAL GLASS 120 LAYOUT MODULE



Product Advantages



High power

- Up to 375W front power and 20.2% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power



High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certificated to fire class A
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load



High energy generation

- Up to 25% additional power gain from back side depending on the albedo ;
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.35%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature



Easy to install

- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

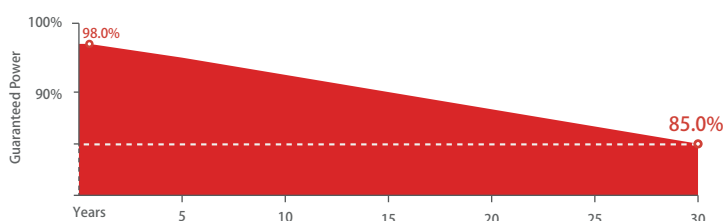
20.2%

Module efficiency

375W

Highest power output

Performance Warranty



-2.00%

First year power degradation

-0.45%

Annual degradation

12
Years

Materials and workmanship warranty

30
Years

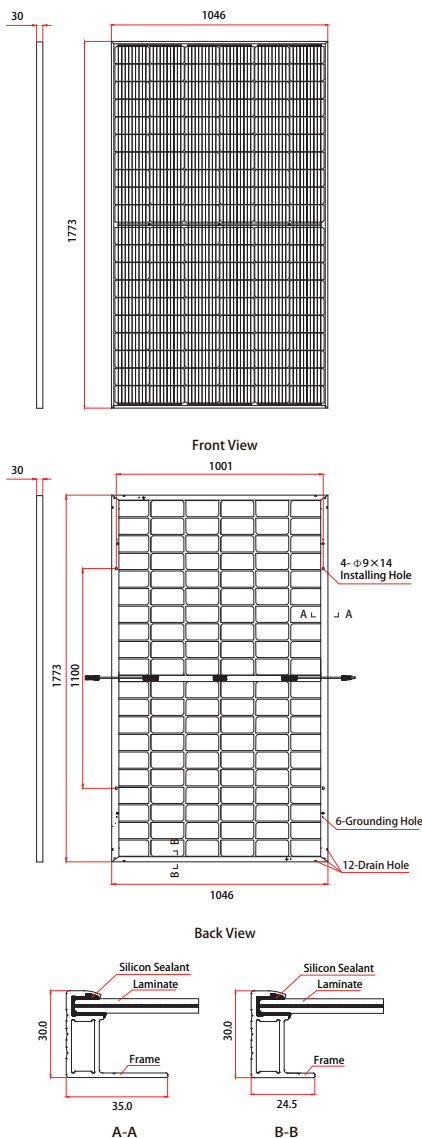
Linear power warranty

Product Certification

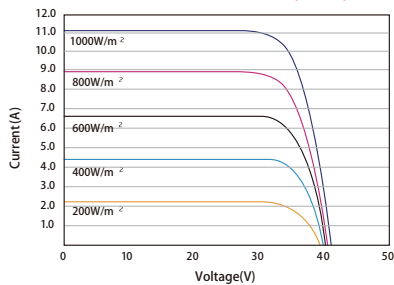


GPNE-S120/FNH-BG

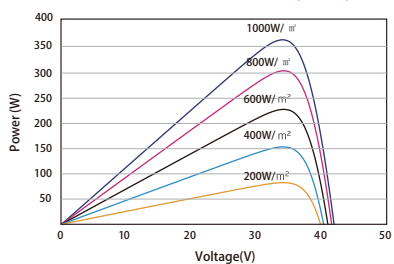
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(360W)



P-V CURVES OF PV MODULE(360W)



ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	350	355	360	365	370	375
Power Tolerance-P _{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V _{MPP} (V)	33.4	33.7	34.0	34.3	34.5	34.8
Maximum Power Current-I _{MPP} (A)	10.48	10.53	10.59	10.66	10.72	10.78
Open Circuit Voltage-V _{OC} (V)	40.1	40.4	40.8	41.1	41.4	41.8
Short Circuit Current-I _{SC} (A)	11.00	11.06	11.12	11.19	11.26	11.32
Module Efficiency η _m (%)	18.9	19.1	19.4	19.7	20.0	20.2

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

*Measuring tolerance: ±3%.

Electrical characteristics with different rear side power gain (reference to 435 Wp front)

Maximum Power-P _{MAX} (Wp)	378	396	414	432	450
Maximum Power Voltage-V _{MPP} (V)	40.9	41.0	41.1	41.2	41.3
Maximum Power Current-I _{MPP} (A)	11.68	12.23	12.79	13.34	13.90
Open Circuit Voltage-V _{OC} (V)	34.0	34.0	34.0	34.0	34.0
Short Circuit Current-I _{SC} (A)	11.12	11.65	12.18	12.71	13.24
Pmax gain	5%	10%	15%	20%	25%

Power Bifaciality :70±5%.

ELECTRICAL DATA (NMOT)

Maximum Power-P _{MAX} (Wp)	265	268	272	277	280	284
Maximum Power Voltage-V _{MPP} (V)	31.6	31.8	32.1	32.4	32.6	32.9
Maximum Power Current-I _{MPP} (A)	8.39	8.43	8.49	8.54	8.59	8.64
Open Circuit Voltage-V _{OC} (V)	37.9	38.2	38.6	38.8	39.1	39.5
Short Circuit Current-I _{SC} (A)	8.86	8.91	8.95	9.01	9.07	9.11

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 166 mm (9BB)
Cell Orientation	120 cells (6×20)
Module Dimensions	1773×1046×30 mm
Weight	25.0 kg
Front Glass	2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	2.0mm, Heat Strengthened Glass (white Grid Glass)
Frame	30 mm Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² Portrait: 280/280 mm Landscape: 1200/1200 mm

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P _{MAX}	-0.35%/°C
Temperature Coefficient of V _{OC}	-0.25%/°C
Temperature Coefficient of I _{SC}	0.04%/V

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

PACKAGING CONFIGURATION

Modules per box: 35 pieces
Modules per 40' container: 910pieces