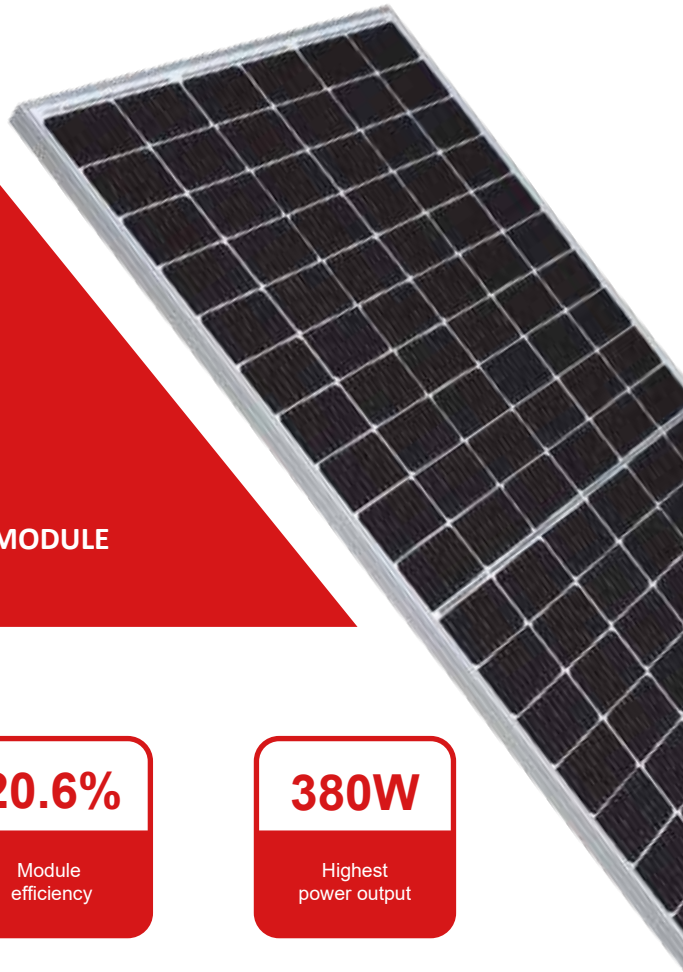
GPNE-S120/FNH
166 Half Cell Series
355-380W

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE



Product Advantages

High Power Output
Compared to 158.75mm module, the power output can increase 25W-30W

High Reliability
Passed 3*IEC standard test

Low Hot-spot Risk
1/2 current, reducing the hot spot temperature

Excellent loading capability
2400Pa wind loads, 5400Pa snow loads，8000Pa extra support

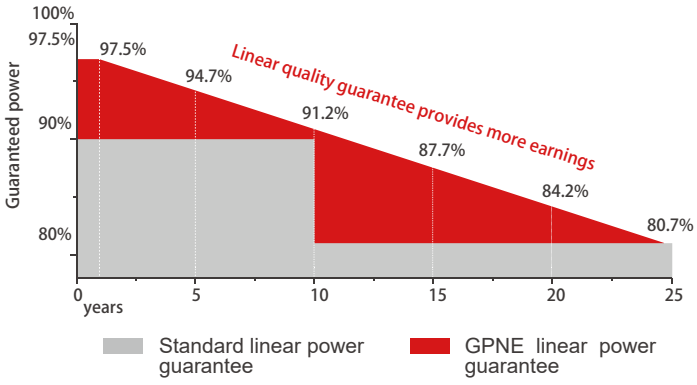
Low NMOT
As low as 43℃，improving the power generation efficiency

Half Cell, MBB Technology
Series-then-parallel cell connection design,more reliable soldering technology

20.6%
Module efficiency

380W
Highest power output

Product Guarantee



-2.50%
First year power degradation

-0.50%
Annual degradation

12 Years
Materials and workmanship warranty

25 Years
Linear power warranty

Product Certification

GPNE-S120/FNH

Electrical Characteristics

STC	380	375	370	365	360	355
Maximum Power at STC (Pmax)	380W	375W	370W	365W	360W	355W
Optimum Operating Voltage (Vmp)	34.7V	34.5V	34.3V	34.1V	33.9V	33.7V
Optimum Operating Current (Imp)	10.96A	10.87A	10.79A	10.71A	10.62A	10.54A
Open Circuit Voltage (Voc)	41.3V	41.1V	40.9V	40.7V	40.5V	40.3V
Short Circuit Current (Isc)	11.63A	11.56A	11.49A	11.42A	11.35A	11.28A
Module Efficiency	20.6%	20.3%	20.0%	19.7%	19.4%	19.2%
Operating Module Temperature	-40 °C to +85 °C					
Maximum System Voltage	1500 V DC (IEC)					
Maximum Series Fuse Rating	20 A					
Power Tolerance	0/+5W					

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NMOT	380	375	370	365	360	355
Maximum Power at NMOT (Pmax)	285.44W	281.75W	278.2W	274.3W	270.7W	266.8W
Optimum Operating Voltage (Vmp)	32.4V	32.2V	32.V	31.8V	31.6V	31.5V
Optimum Operating Current (Imp)	8.81A	8.75A	8.69A	8.62A	8.56A	8.48A
Open Circuit Voltage (Voc)	39.1V	38.9V	38.7V	38.5V	38.4V	38.2V
Short Circuit Current (Isc)	9.29A	9.23A	9.17A	9.1A	9.04A	8.96A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics

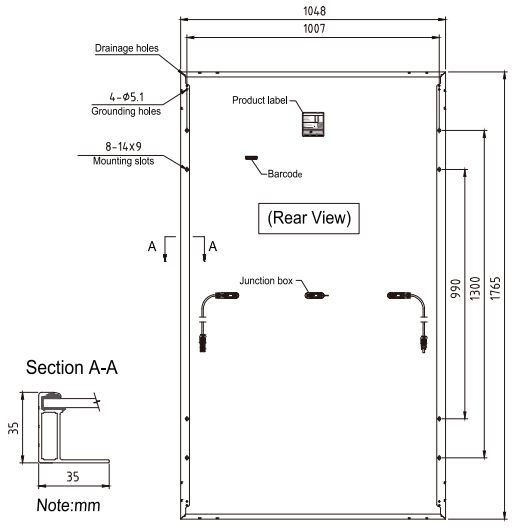
Nominal Module Operating Temperature(**NMOT**)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.304 %/°C
Temperature Coefficient of Isc	0.050 %/°C

Mechanical Characteristics

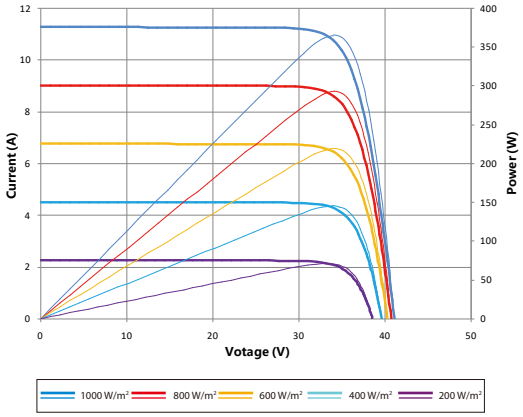
Solar Cell	Monocrystalline silicon 166 mm (9BB)
No. of Cells	120 (6 × 20)
Dimensions	1765 × 1048× 35mm
Weight	20.0 kgs
Front Glass	3.2 mm
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm² , symmetrical lengths (-) 1200mm and (+) 1200 mm

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	30+1
Pallets per container	6	26
Pieces per container	180	806



Current-Voltage & Power-Voltage Curve (370S)



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