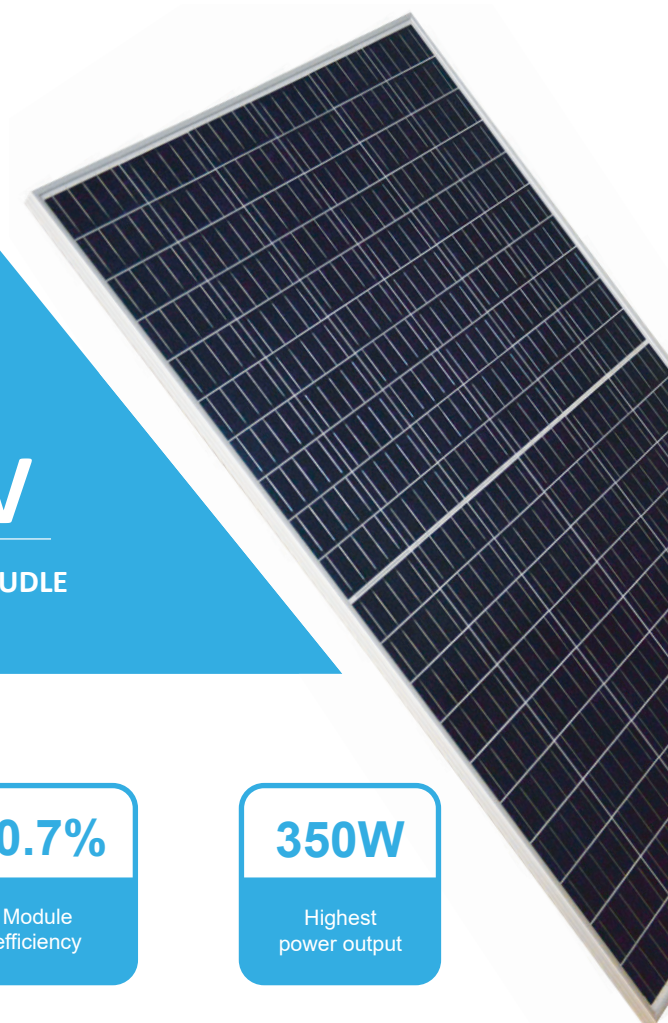




和光新能源  
HEGATECH



HGT-S120/FNH

350-330W-HV

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

Product Advantages



High Efficiency

Module efficiency leading in industry, up to 20.7%



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



Low NMOT

As low as 43°C, improving the power generation efficiency



Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology

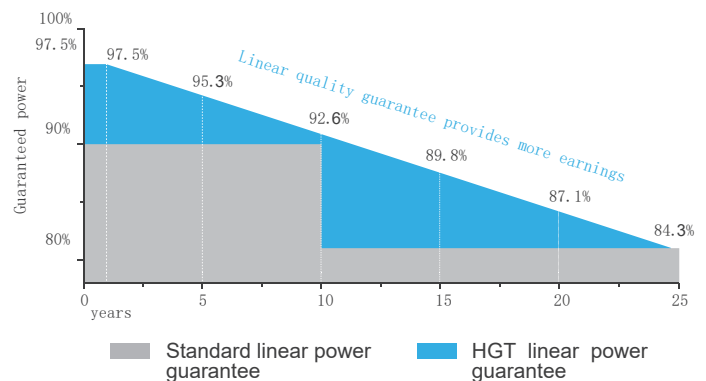
20.7%

Module efficiency

350W

Highest power output

Product Guarantee



-2.50%

First year power degradation

-0.55%

Annual degradation

12  
Years

Materials and workmanship warranty

25  
Years

Linear power warranty

Product Certification



# HGT-S120/FNH-HV

## Electrical Characteristics

STC	350	345	340	335	330
Maximum Power at STC (Pmax)	350 W	345 W	340 W	335 W	330 W
Optimum Operating Voltage (Vmp)	35.5 V	35.3 V	35.1 V	34.9 V	34.7 V
Optimum Operating Current (Imp)	9.86 A	9.78 A	9.68 A	9.60 A	9.52 A
Open Circuit Voltage (Voc)	41.5 V	41.3 V	41.1 V	40.9 V	40.7 V
Short Circuit Current (Isc)	10.45 A	10.37 A	10.29 A	10.21 A	10.13 A
Module Efficiency	20.7%	20.4%	20.1%	19.8%	19.5%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1500 V DC				
Maximum Series Fuse Rating	20 A				
Power Tolerance	0/+5W				

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NM OT	350	345	340	335	330
Maximum Power at NMOT (Pmax)	262.9 W	259.3 W	255.5 W	252.1 W	248.6 W
Optimum Operating Voltage (Vmp)	32.7 V	32.5 V	32.3 V	32.1 V	31.9 V
Optimum Operating Current (Imp)	8.04 A	7.98 A	7.92 A	7.85 A	7.79 A
Open Circuit Voltage (Voc)	38.9 V	38.7 V	38.5 V	38.3 V	38.1 V
Short Circuit Current (Isc)	8.43 A	8.37 A	8.31 A	8.24 A	8.18 A

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

## Temperature Characteristics

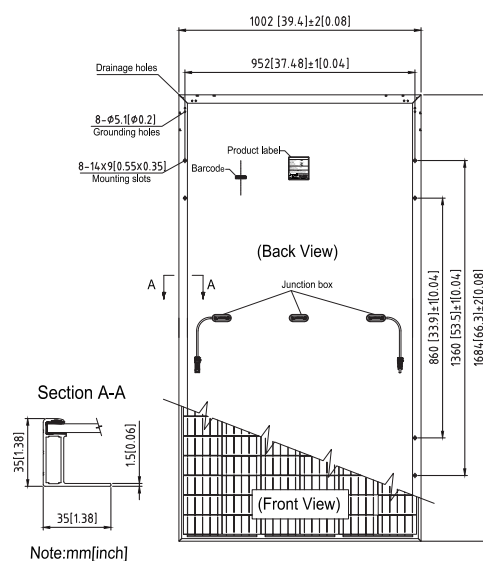
Nominal Module Operating Temperature(NM OT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.304 %/°C
Temperature Coefficient of Isc	0.050 %/°C

## Mechanical Characteristics

Solar Cell	Monocrystalline 158.75mm
No. of Cells	120 (6 × 20)
Dimensions	1684 × 1002 × 40mm
Weight	19.0 kgs
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm <sup>2</sup> Portrait: (-) 350 mm and (+) 160mm in length Landscape: (-) 1000mm and (+) 1000 mm in length or customized length
Connectors	FORSOL:SIKE6, Renhe:05-8, Renhe:05-9, Zerun:Z4S-abcde
Fire Safty Rate	Class C

## Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	30+2
Pallets per container	12	26
Pieces per container	360	832



## Current-Voltage & Power-Voltage Curve (345)

