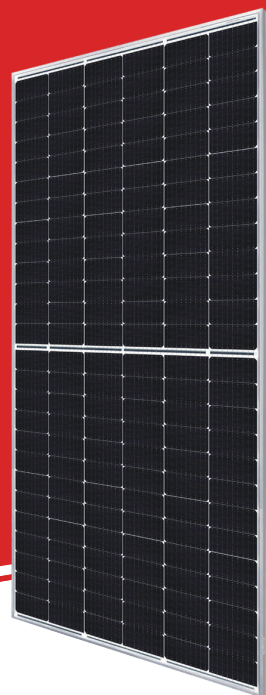




GPNE- S156/M6H 166 Half Cell Series

470-490w

156-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°C, improving the power generation efficiency



Half Cell, MBB Technology

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

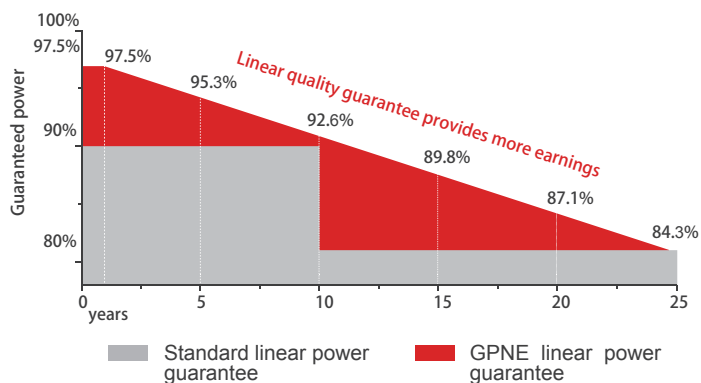
20.5%

Module efficiency

490W

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



GPNE-S156/M6H

Electrical Characteristics

STC	490	485	480	475	470
Maximum Power at STC (Pmax)	490W	485W	480W	475W	470W
Optimum Operating Voltage (Vmp)	44.9	44.7	44.5	44.3	44.1
Optimum Operating Current (Imp)	10.92	10.86	10.79	10.73	10.66
Open Circuit Voltage (Voc)	53.5	53.3	53.1	52.9	52.7
Short Circuit Current (Isc)	11.66	11.60	11.53	11.47	11.40
Module Efficiency	20.5%	20.3%	20.1%	19.9%	19.7%
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	490	485	480	475	470
Maximum Power at NMOT (Pmax)	370.1W	366.3W	362.2W	358.7W	354.7W
Optimum Operating Voltage (Vmp)	41.4V	41.2V	41.0V	40.8V	40.7V
Optimum Operating Current (Imp)	8.93A	8.89A	8.83A	8.78A	8.72A
Open Circuit Voltage (Voc)	50.2V	50.0V	49.8V	49.6V	49.5V
Short Circuit Current (Isc)	9.41A	9.36A	9.30A	9.25A	9.20A

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	156 (6x26)
Dimensions	2278 x 1048 x 40 mm
Weight	29kgs
Front Glass	3.2 mmtempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , cable length 350mm or customized length

Packing Configuration

Container	40' HC
Pieces per pallet	26+1
Pallets per container	20
Pieces per container	540

