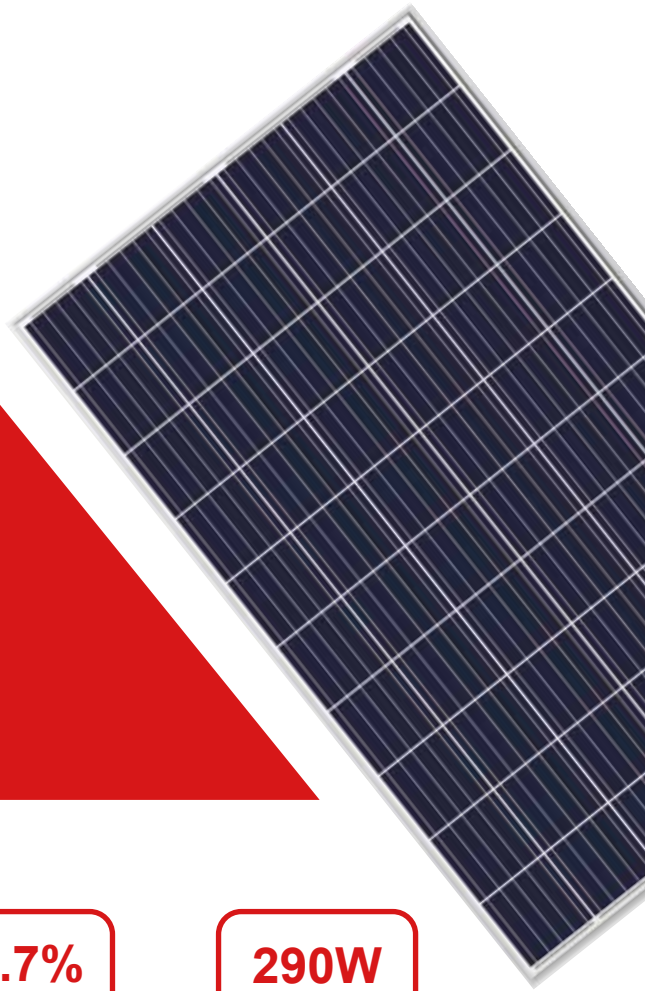




# GPNE-P60

# 290-270W

POLYCRYSTALLINE SOLAR MODULE 60cells



## Product Advantages



**High conversion efficiency**  
High module efficiency to guarantee power output.



**Easy Installation and Handling**  
For various applications



**Outstanding low irradiation performance**  
Excellent module efficiency even in the weak light conditions, such as morning or cloudy.



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



**0 ~ +5W positive tolerance**  
Detailed information in Electrical Specifications

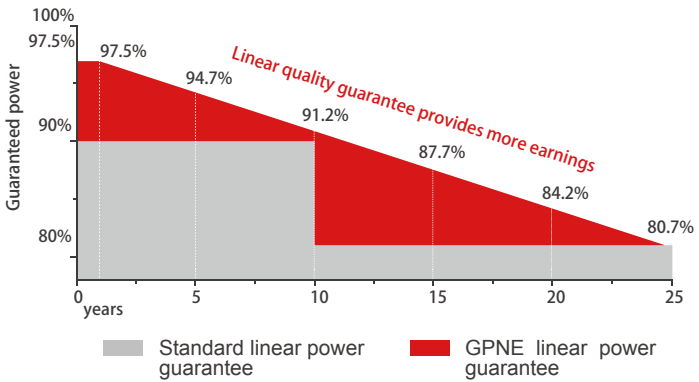


**Durability against extreme environmental**  
High salt mist and ammonia resistance certified by TUV NORD

**17.7%**  
Module efficiency

**290W**  
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-P60

## Electrical Characteristics

STC	290	285	280	275	270
Maximum Power at STC (Pmax)	290 W	285 W	280 W	275 W	270 W
Optimum Operating Voltage (Vmp)	31.9 V	31.7 V	31.6 V	31.4 V	31.1 V
Optimum Operating Current (Imp)	9.09 A	9.00 A	8.86 A	8.76 A	8.69 A
Open Circuit Voltage (Voc)	39.1 V	38.9 V	38.5 V	38.1 V	37.9 V
Short Circuit Current (Isc)	9.56 A	9.46 A	9.38 A	9.27 A	9.21 A
Module Efficiency	17.7%	17.4%	17.1%	16.8%	16.5%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000/1500 V DC (IEC)				
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%.

NMOT	290	285	280	275	270
Maximum Power at NMOT (Pmax)	217.9 W	214.4 W	210.3 W	206.4 W	203.0 W
Optimum Operating Voltage (Vmp)	29.9 V	29.8 V	29.5 V	29.2 V	29.0 V
Optimum Operating Current (Imp)	7.28 A	7.20 A	7.14 A	7.07 A	7.01 A
Open Circuit Voltage (Voc)	36.6 V	36.4 V	36.0 V	35.7 V	35.5 V
Short Circuit Current (Isc)	7.73 A	7.65 A	7.59 A	7.49 A	7.45 A

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

## Temperature Characteristics

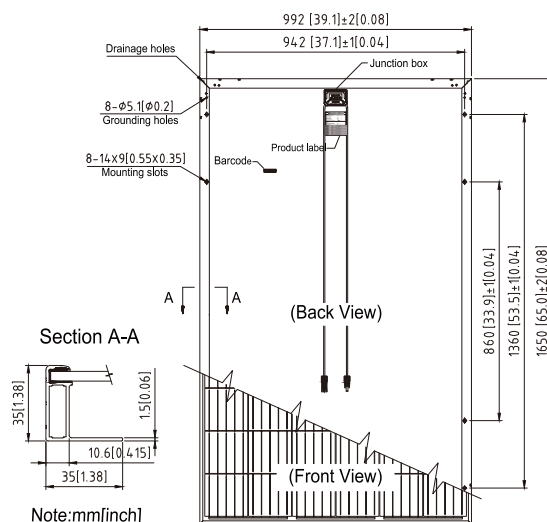
Nominal Module Operating Temperature(NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.067%/°C

## Mechanical Characteristics

Solar Cell	Polycrystalline silicon
No. of Cells	60 (6 × 10)
Dimensions	1650 × 992 × 35mm
Weight	18.3 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> , symmetrical lengths (-) 900mm and (+) 900 mm
Connectors	MC4 compatible

## Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	32
Pallets per container	12	28
Pieces per container	360	896



Current-Voltage & Power-Voltage Curve (290)

