

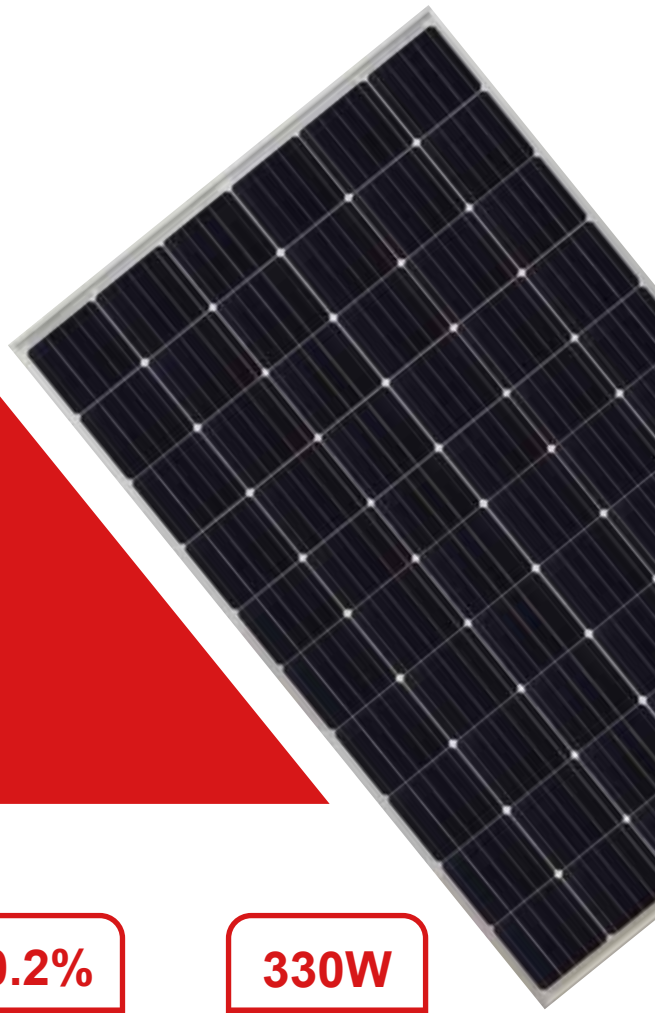


# GPNE-S60

## High Performance Series

# 330-310W

MONOCRYSTALLINE 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

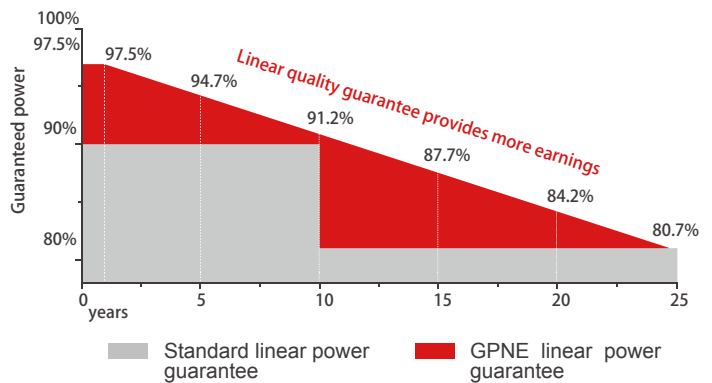


**Durability against extreme environmental**  
High salt mist and ammonia resistance certified by TUV NORD

**20.2%**  
Module efficiency

**330W**  
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-S60

## Electrical Characteristics

STC	330	325	320	315	310
Maximum Power at STC (Pmax)	330 W	325 W	320 W	315 W	315 W
Optimum Operating Voltage (Vmp)	34.2 V	33.9 V	33.9 V	33.7 V	33.7 V
Optimum Operating Current (Imp)	9.66 A	9.59 A	9.44 A	9.35 A	9.35 A
Open Circuit Voltage (Voc)	41.3 V	41.0 V	40.6 V	40.4 V	40.4 V
Short Circuit Current (Isc)	10.18 A	10.11 A	9.90 A	9.84 A	9.84 A
Module Efficiency	20.2%	19.9%	19.6%	19.2%	19.2%
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	330	325	320	315	310
Maximum Power at NMOT (Pmax)	248.4 W	243.7 W	239.3 W	235.8 W	232.6 W
Optimum Operating Voltage (Vmp)	32.1 V	31.7 V	31.4 V	31.1 V	30.8 V
Optimum Operating Current (Imp)	7.74 A	7.69 A	7.64 A	7.59 A	7.55 A
Open Circuit Voltage (Voc)	38.9 V	38.6 V	38.3 V	37.9 V	37.6 V
Short Circuit Current (Isc)	8.16 A	8.11 A	8.06 A	8.01 A	7.97 A

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

## Temperature Characteristics

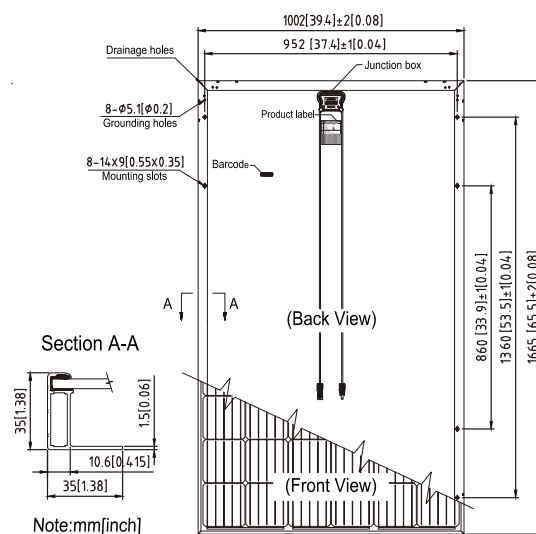
Nominal Module Operating Temperature(NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

## Mechanical Characteristics

Solar Cell	Monocrystalline silicon 158.75
No. of Cells	60 (6 × 10)
Dimensions	1665 × 1002 × 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 (320)

