

GPNE-S60

320-300W

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

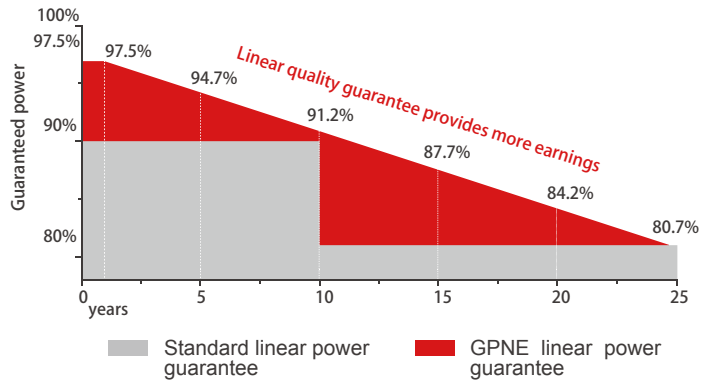


Durability against extreme environmental
High salt mist and ammonia resistance certified by TUV NORD

19.5%
Module efficiency

320W
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	320	315	310	305	300
Maximum Power at STC (Pmax)	320 W	315 W	310 W	305 W	300 W
Optimum Operating Voltage (Vmp)	33.7 V	33.4 V	33.1 V	32.8 V	32.5 V
Optimum Operating Current (Imp)	9.5 A	9.43 A	9.37 A	9.30 A	9.23 A
Open Circuit Voltage (Voc)	40.8 V	40.6 V	40.2 V	39.8 V	39.6 V
Short Circuit Current (Isc)	10.01 A	9.92 A	9.87 A	9.80 A	9.72 A
Module Efficiency	19.5%	19.2%	18.9%	18.6%	18.3%
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/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NMOT	320	315	310	305	300
Maximum Power at NMOT (Pmax)	239.3 W	235.8 W	232.6 W	228.3 W	224.8 W
Optimum Operating Voltage (Vmp)	31.4 V	31.1 V	30.8 V	30.5 V	30.2 V
Optimum Operating Current (Imp)	7.64 A	7.59 A	7.55 A	7.49 A	7.43 A
Open Circuit Voltage (Voc)	38.3 V	37.9 V	37.6 V	37.1 V	36.6 V
Short Circuit Current (Isc)	8.06 A	8.01 A	7.97 A	7.92 A	7.87 A

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

Temperature Characteristics

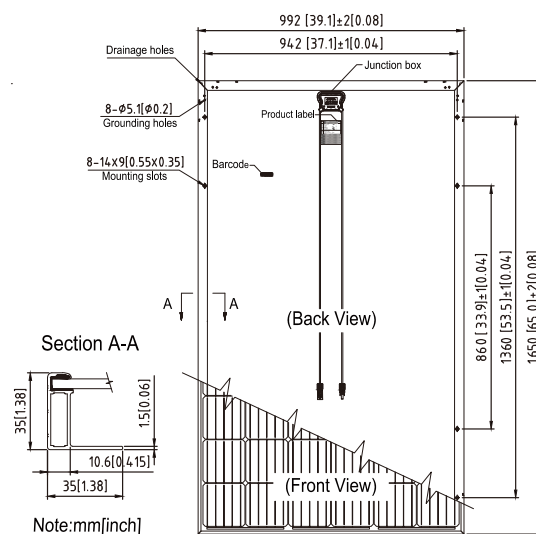
Nominal Module Operating Temperature(NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline 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 ² , 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)

