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Solar Panel Guide Specification Data Sheet

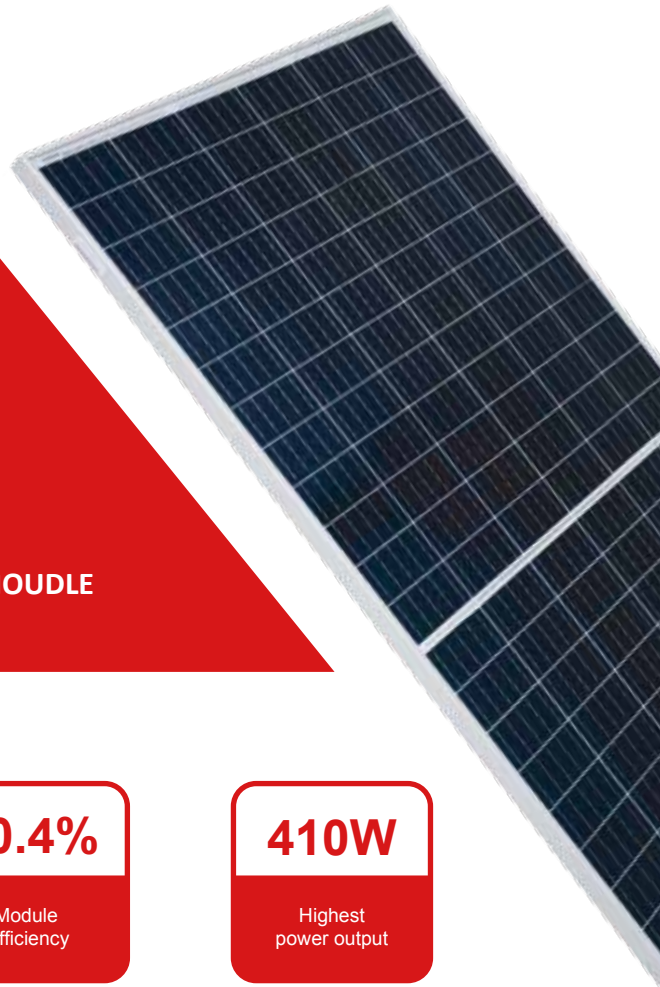
**Jiangsu Green Power New Energy Co., Ltd.
GPNE-S72/FNH 390-410W
400W**

Also available on the web at
EnergyPal.com/jiangsu-green-power-new-energy-co-ltd-solar-panels/400w



GPNE-S72/FNH 410-390W

144-CELL HALF CUT MONOCRYSTALLINE SOLAR MOUDLE



Product Advantages



High Efficiency
Module efficiency leading in industry, up to 20.4%



High Reliability
Passed 3*IECstandard 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

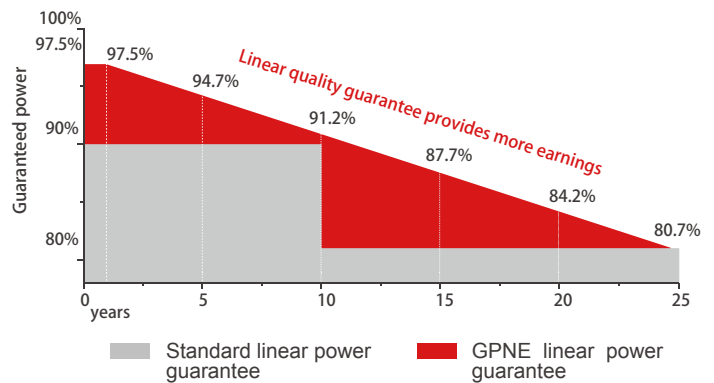
20.4%

Module efficiency

410W

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-S72/FNH

Electrical Characteristics

STC	410	405	400	395	390
Maximum Power at STC (Pmax)	410 W	405 W	400 W	395 W	390 W
Optimum Operating Voltage (Vmp)	42.2 V	42.0 V	41.8 V	41.6 V	41.4 V
Optimum Operating Current (Imp)	9.72 A	9.65 A	9.57 A	9.50 A	9.43 A
Open Circuit Voltage (Voc)	49.4 V	49.2 V	49.0 V	48.8 V	48.6 V
Short Circuit Current (Isc)	10.31 A	10.24 A	10.17 A	10.10 A	10.03 A
Module Efficiency	20.4%	20.1%	19.9%	19.6%	19.4%
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	410	405	400	395	390
Maximum Power at NMOT (Pmax)	308.1 W	304.6 W	300.8 W	297.3 W	293.8 W
Optimum Operating Voltage (Vmp)	38.8 V	38.7 V	38.5 V	38.3 V	38.1 V
Optimum Operating Current (Imp)	7.93 A	7.88 A	7.82 A	7.76 A	7.71 A
Open Circuit Voltage (Voc)	46.3 V	46.1 V	45.9 V	45.7 V	45.5 V
Short Circuit Current (Isc)	8.33 A	8.27 A	8.21 A	8.16 A	8.10 A

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

Temperature Characteristics

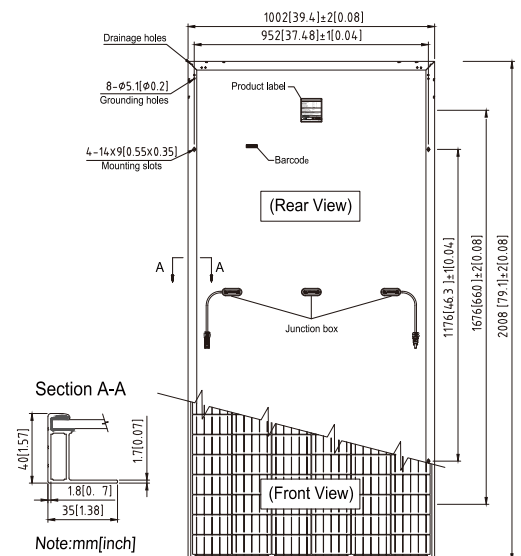
Nominal Module Operating Temperature(NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline 158.75mm
No. of Cells	144 (6 × 24)
Dimensions	2008 × 1002 × 40mm
Weight	23 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 (-) 1400mm and (+) 1400 mm
Connectors	MC4 compatible

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	26	28
Pallets per container	10	22
Pieces per container	260	616



Current-Voltage & Power-Voltage Curve (410S)

