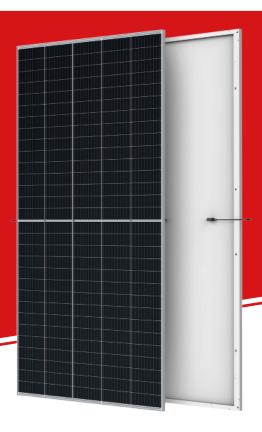


GPNE-S150/M12H-xxx

485-510w

210mm cells 1/3 cut cell technology



Product Advantages



High customer value

Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time Lower guaranteed first year and annual degradation Designed for compatibility with existing mainstream system components Higher return on Investment

21.2%

Module efficiency 510W

Highest power output



High power up to 510W

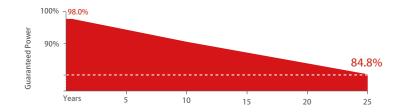
Large area cells based on 210mm silicon wafers and 1/3-cut cell technology Up to 21.2% module efficiency with high density interconnect technology Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



High reliability

Minimized micro-cracks with innovative non-destructive cutting technology Ensured PID resistance through cell process and module material control Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas. Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load







High energy yield

Excellent IAM(Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications

The unique design provides optimized energy production under inter-row shading conditions







Product Certification

















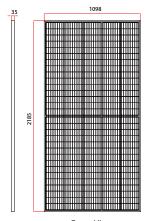


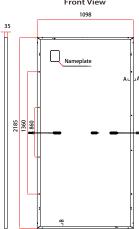


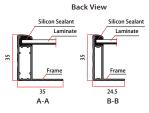


GPNE-S150/M12H-xxx

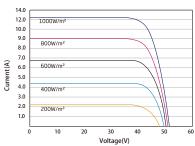
DIMENSIONS OF PV MODULE(mm)



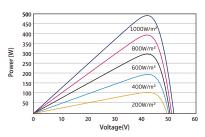




I-V CURVES OF PV MODULE(495 W)



P-V CURVES OF PV MODULE(495W)



ELECTRICAL DATA (STC)

Peak Power Watts-P MAX (Wp)*	485	490	495	500	505	510
Power Tolerance-P MAX (W)	0~+5					
Maximum Power Voltage-V _{MPP} (V)	42.2	42.4	42.6	42.8	43.0	43.2
Maximum Power Current-I _{MPP} (A)	11.49	11.56	11.63	11.69	11.75	11.81
Open Circuit Voltage-Voc (V)	51.1	51.3	51.5	51.7	51.9	52.1
Short Circuit Current-Isc (A)	12.07	12.14	12.21	12.28	12.35	12.42
Module Efficiency η m (%)	20.1	20.3	20.5	20.7	21.0	21.2

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	365	369	373	377	381	385
Maximum Power Voltage-V _{MPP} (V)	39.9	40.0	40.2	40.4	40.6	40.5
Maximum Power Current-I _{MPP} (A)	9.17	9.22	9.28	9.33	9.38	9.50
Open Circuit Voltage-Voc (V)	48.1	48.2	48.4	48.6	48.8	49.0
Short Circuit Current-Isc (A)	9.73	9.78	9.84	9.90	9.95	10.01

NOCT: Irradiance at 800W/m2, Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	150 cells
Module Dimensions	2185x1098x35mm
Weight	26.5 kg
Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm²
	Cable length 350mm or customized length
Connector	MC4 Compatible

^{*}Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43° C (±2° C)
Temperature Coefficient of PMAX	- 0.34%/ °C
Temperature Coefficient of Voc	- 0.25%/ °C
Temperature Coefficient of Isc	0.04%/ °C

MAXIMUMRATINGS

Operational Temperature	-40~+85 °C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

⁽Do not connect Fuse in Combiner Box with two or more strings in $\,$ parallel connection)

WARRANTY

⁽Please refer to product warranty for details)

PACKAGING CONFIGUREATION

Modules per box: 31 pieces

Modules per 40' container: 620 pieces



^{*}Measuring tolerance: ±3%.