







## ■ P-Type Solar Module


### KEY FEATURES


- 


Excellent performance in low-light environments
- 


High quality junction box and connector systems
- 


100% inspection, to guarantee the reliability of solar systems
- 

Lower temperature
- 

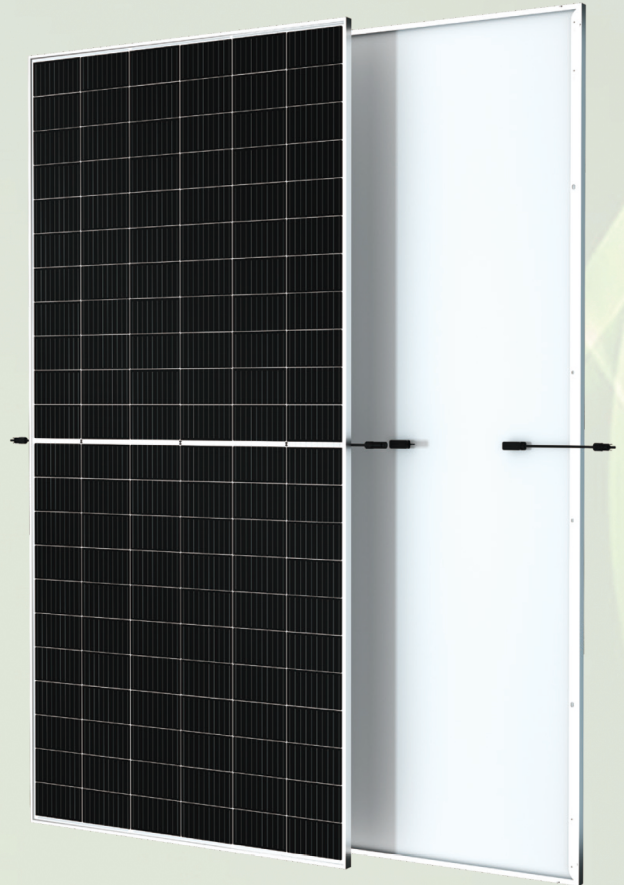
Anti PID
- 

Enhanced safety by excellent fire resistance
- 

Perfect for sandy, snowy and high latitude regions
- 

Lower operating temperature, more reliable
- 

Cutcell, Less internal power loss, Less mismatch loss



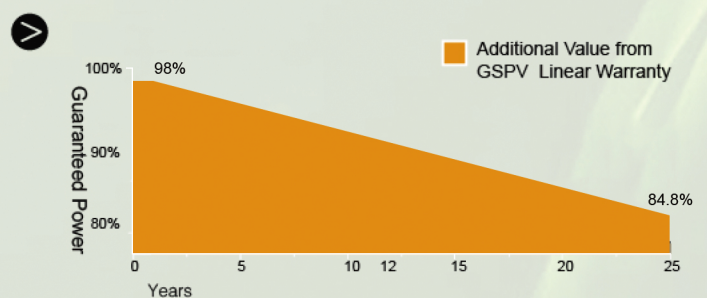
## GSPV-M12/132H-565W-585W 565~585 Watt

➤ 210mm 132 Cells PV Solar Module

**BLACK** \*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

➤

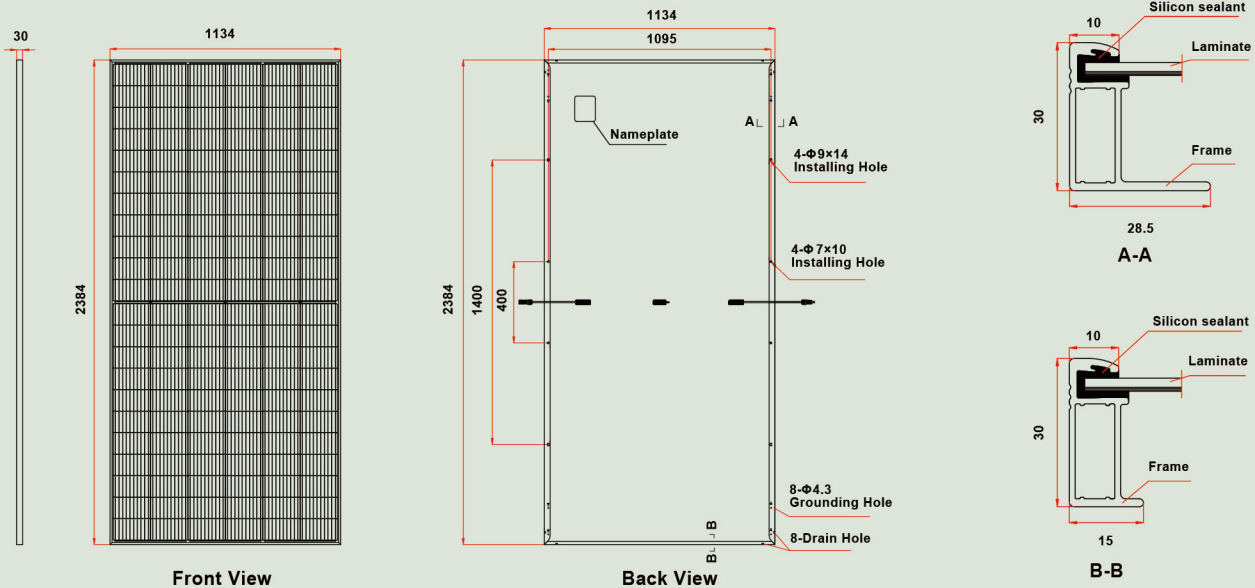
<b>12</b> years	<b>25</b> years	<b>0.55%</b>	
Product Warranty	Linear Power Warranty	Annual Degradation over 25 years	



IEC61215  
IEC61730  
UL61215  
UL61730



## DIMENSIONS OF PV MODULE(mm)



## ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	565	570	575	580	585
Power Tolerance-P <sub>MAX</sub> (W)	0 ~ +5				
Maximum Power Voltage-V <sub>MPP</sub> (V)	38.3	38.5	38.8	39.0	39.3
Maximum Power Current-I <sub>MPP</sub> (A)	14.76	14.79	14.83	14.86	14.90
Open Circuit Voltage-V <sub>OC</sub> (V)	45.6	45.8	46.1	46.3	46.6
Short Circuit Current-I <sub>SC</sub> (A)	15.81	15.85	15.90	15.94	15.99
Module Efficiency η <sub>m</sub> (%)	20.9	21.1	21.3	21.5	21.6

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance: ±3%.

## MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	132 cells
Module Dimensions	2384×1134×30 mm (93.86×44.65×1.18 inches)
Weight	28.8kg (63.49 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	White
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ) Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized
Connector	MC4 EVO2 / TS4 Plus/ TS4*

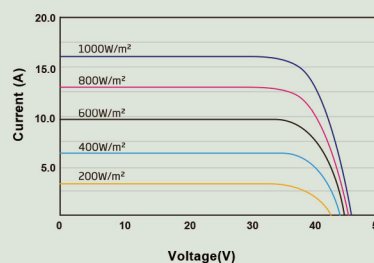
\*Please refer to regional datasheet for specified connector.

## ELECTRICAL DATA (NOCT)

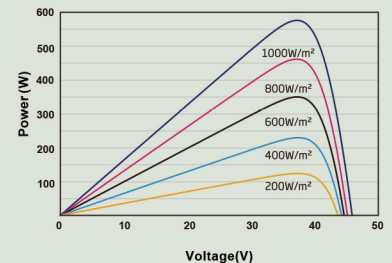
Maximum Power-P <sub>MAX</sub> (Wp)	428	431	435	439	443
Maximum Power Voltage-V <sub>MPP</sub> (V)	35.3	35.5	35.8	35.9	36.2
Maximum Power Current-I <sub>MPP</sub> (A)	12.10	12.13	12.17	12.20	12.24
Open Circuit Voltage-V <sub>OC</sub> (V)	42.9	43.1	43.4	43.6	43.9
Short Circuit Current-I <sub>SC</sub> (A)	12.74	12.77	12.81	12.84	12.88

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

## I-V CURVES OF PV MODULE(575W)



## P-V CURVES OF PV MODULE(575W)



## TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (22°C)
Temperature Coefficient of P <sub>MAX</sub>	-0.34%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.25%/°C
Temperature Coefficient of I <sub>SC</sub>	0.04%/°C

## MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	30A

## WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

## PACKAGING

Modules per box: 36 pieces
Modules per 40' container: 720 pieces