








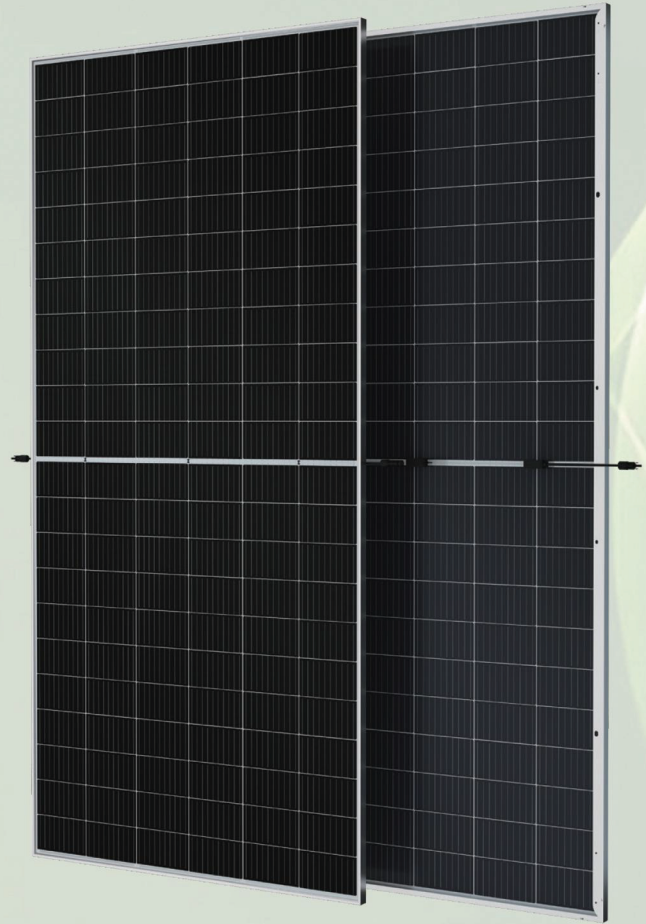




■ P-Type Solar Module

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



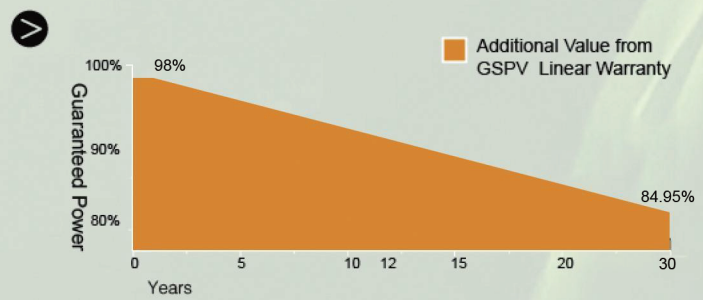
GSPV-M12/132H-560W-580W 560~580 Watt

➤ 210mm 132 Cells PV Solar Module

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

➤

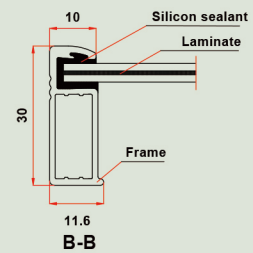
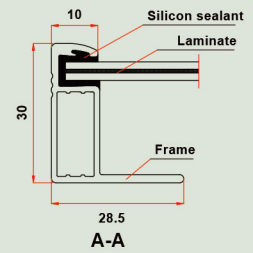
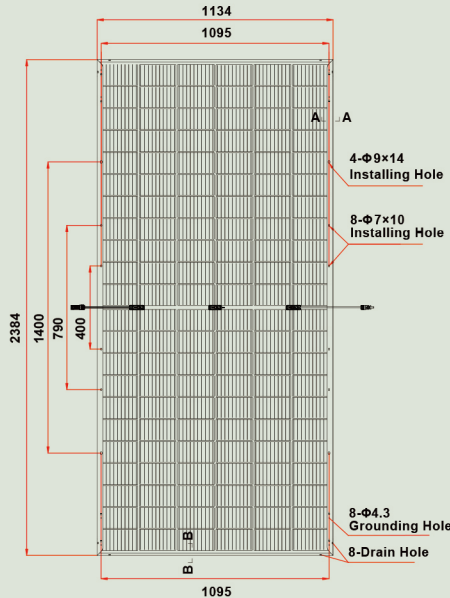
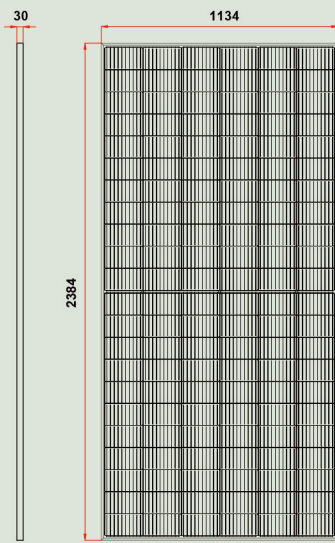
12 years	30 years	0.45%	
Product Warranty	Linear Power Warranty	Annual Degradation over 30 years	



IEC61215
IEC61730
UL61215
UL61730



DIMENSIONS OF PV MODULE(mm)



Front View

Back View

ELECTRICAL DATA (STC)

Parameter	560	565	570	575	580
Peak Power Watts-P _{MAX} (Wp)*	560	565	570	575	580
Power Tolerance-P _{MAX} (W)	0 ~ +5				
Maximum Power Voltage-V _{MPP} (V)	37.9	38.2	38.4	38.7	38.9
Maximum Power Current-I _{MPP} (A)	14.76	14.80	14.84	14.87	14.91
Open Circuit Voltage-V _{OC} (V)	45.2	45.5	45.7	46.0	46.2
Short Circuit Current-I _{SC} (A)	15.86	15.90	15.93	15.97	16.01
Module Efficiency η _m (%)	20.7	20.9	21.1	21.3	21.5

STC: Irradiance 1000W/m², 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	33.7 kg (74.3 lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) 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 characteristics with different power bin(reference to 10% Irradiance ratio)

Total Equivalent power-P _{MAX} (Wp)	599	605	610	615	620
Maximum Power Voltage-V _{MPP} (V)	37.9	38.2	38.4	38.7	38.9
Maximum Power Current-I _{MPP} (A)	15.81	15.83	15.88	15.90	15.94
Open Circuit Voltage-V _{OC} (V)	45.2	45.5	45.7	46.0	46.2
Short Circuit Current-I _{SC} (A)	16.97	17.01	17.05	17.09	17.13
Irradiance ratio (rear/front)	10%				

Power Bifaciality: 70±5%.

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	424	428	431	436	439
Maximum Power Voltage-V _{MPP} (V)	34.9	35.2	35.4	35.7	35.8
Maximum Power Current-I _{MPP} (A)	12.12	12.15	12.18	12.22	12.25
Open Circuit Voltage-V _{OC} (V)	42.6	42.8	43.0	43.3	43.5
Short Circuit Current-I _{SC} (A)	12.78	12.81	12.84	12.87	12.90

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

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.34%/°C
Temperature Coefficient of V _{OC}	-0.25%/°C
Temperature Coefficient of I _{SC}	0.04%/°C

MAXIMUM RATINGS

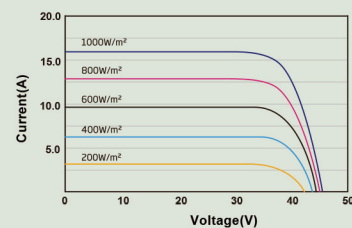
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	35A

WARRANTY

12 year Product Workmanship Warranty
30 year Power Warranty
2% first year degradation
0.45% Annual Power Attenuation

(Please refer to product warranty for details)

I-V CURVES OF PV MODULE(570W)



P-V CURVES OF PV MODULE(570W)

