








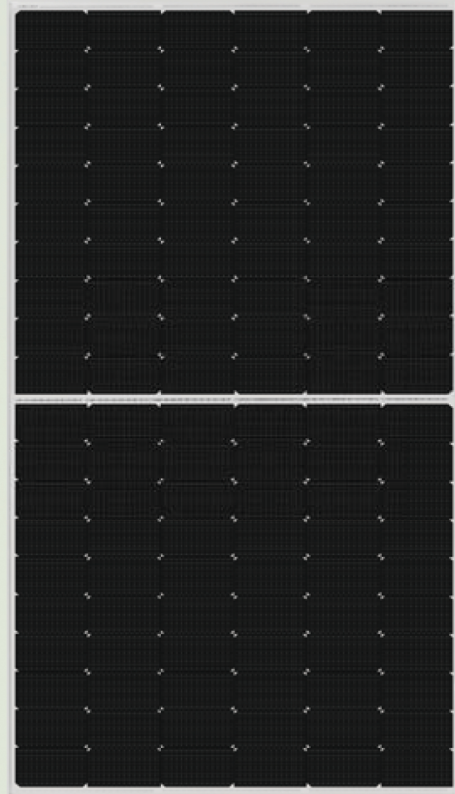




■ P-Type Solar Module

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



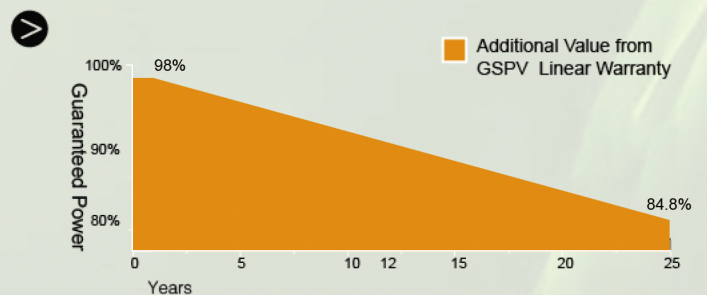
GSPV-M10/120H-450W-470W 450~470 Watt

➤ 182mm 120 Cells PV Solar Module

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

➤

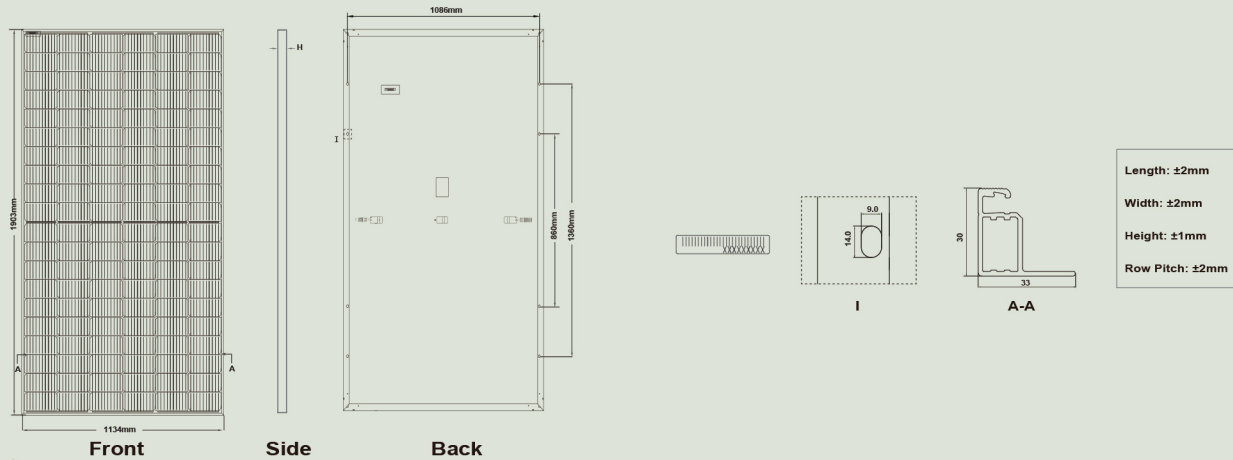
12 Years Material & Craft Quality assurance	12 Years 90% Output Power guarantee	25 Years 80% Output Power guarantee	
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IEC61215
IEC61730
UL61215
UL61730



DIMENSIONS OF PV MODULE(mm)



SPECIFICATIONS

Module Type	GSPV-M10/120H-450W		GSPV-M10/120H-455W		GSPV-M10/120H-460W		GSPV-M10/120H-465W		GSPV-M10/120H-470W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp	465Wp	346Wp	470Wp	350Wp
Maximum Power Voltage (Vmp)	33.91V	31.73V	34.06V	31.91V	34.20V	32.07V	34.37V	32.12V	34.56V	32.32V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.61A	13.45A	10.67A	13.53V	10.77A	13.60A	10.82A
Open-circuit Voltage (Voc)	41.18V	38.87V	41.33V	39.01V	41.48V	39.15V	41.63V	39.29V	41.78V	39.43V
Short-circuit Current (Isc)	13.85A	11.19A	13.93A	11.25A	14.01A	11.32A	14.09A	11.38A	14.17A	11.34A
Module Efficiency STC (%)	20.85%		21.08%		21.32%		21.55%		21.78%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.
 NOCT: Irradiance at 800w/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Cell Type	P type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1903×1134×30mm (74.92×44.65×1.18 inch)
Weight	24.2 kg (53.35 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm² (+): 290mm, (-): 145mm or Customized Length

PACKAGING

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

