








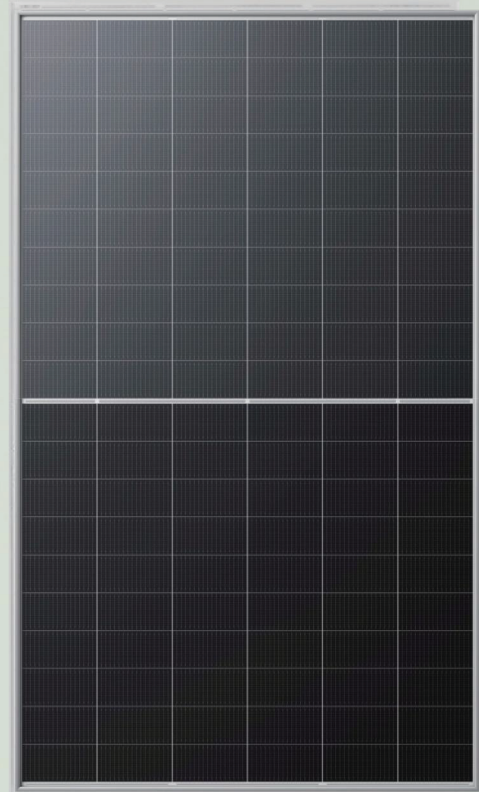




■ N-Type Solar Module

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

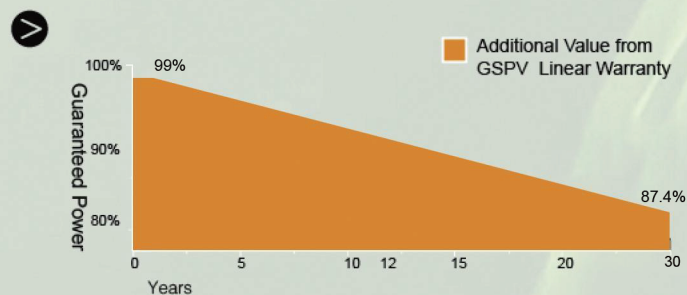


GSPV-M10/120H-470W-490W 470~490 Watt

- 182mm 120 Cells Topcon Mono Half Cell PV-Module Series

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

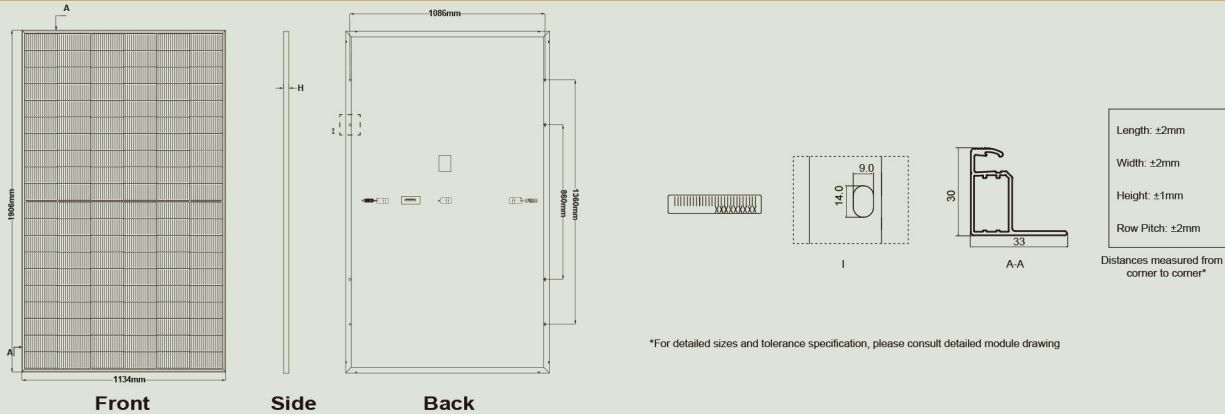
- **12** years Product Warranty
- 30** years Linear Power Warranty
- 0.40%** Annual Degradation over 30 years
- 



IEC61215
IEC61730
UL61215
UL61730



DIMENSIONS OF PV MODULE(mm)



SPECIFICATIONS

Module Type	GSPV-M10/120H-470W		GSPV-M10/120H-475W		GSPV-M10/120H-480W		GSPV-M10/120H-485W		GSPV-M10/120H-490W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	470Wp	353Wp	475Wp	357Wp	480Wp	361Wp	485Wp	365Wp	490Wp	369Wp
Maximum Power Voltage (Vmp)	35.69V	33.21V	35.88V	33.40V	36.06V	33.61V	36.25V	33.84V	36.43V	34.00V
Maximum Power Current (Imp)	13.17A	10.63A	13.24A	10.69A	13.31A	10.74A	13.38V	10.80A	13.45A	10.86A
Open-circuit Voltage (Voc)	43.30V	41.14V	43.45V	41.28V	43.60V	41.42V	43.76V	41.57V	43.91V	41.71V
Short-circuit Current (Isc)	13.69A	11.05A	13.77A	11.12A	13.85A	11.18A	13.93A	11.24A	14.01A	11.31A
Module Efficiency STC (%)	21.78%		22.01%		22.24%		22.47%		22.71%	
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	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°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	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1906×1134×30mm (74.92×44.65×1.18 inch)
Weight	22.5 kg (49.60 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 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

PACKAGING

(Two pallets = One stack)
 36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

