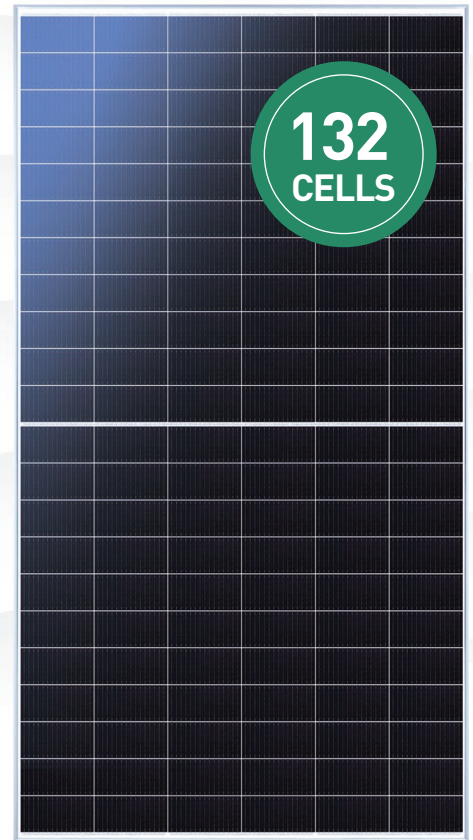


## HELIOS MODULE SERIES

N-HJT HIGH EFFICIENCY MONO BM12-15B-G

# 670-690W



### NEXT GENERATION OF MAINSTREAM MODULE EXCELLENT POWER GENERATION PERFORMANCE

- ◆ 210mm wafer with SMBB cell technology
- ◆ Up to 85% bifaciality and up to 30% additional power generation
- ◆ Competitive high-temperature performance with ameliorated temperature coefficient (-0.24%/°C)
- ◆ Better weak illumination response of HJT technology leads higher power generation

### MORE ENVIRONMENTALLY FRIENDLY

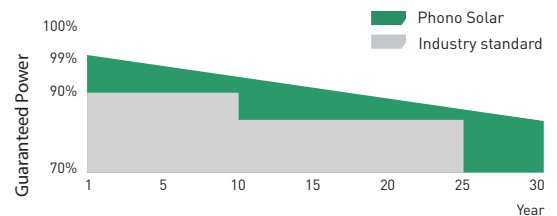
- ◆ Lower carbon emissions

### CONSISTENT RELIABILITY

- ◆ Zero Light Induced Degradation
- ◆ Industry-leading cell technology of TCO thin film contributes to excellent anti-PID characteristic

### SHORTER PAYBACK TIME

- ◆ Lower BoS cost ensure a better LCOE



15-year Product Warranty

30-year Linear Performance Warranty

### MANAGEMENT SYSTEM CERTIFICATES

IEC 61215, IEC 61730

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

ISO 45001:2018 / International standards for occupational health & safety



Bloomberg Tier<sup>1</sup>  
NEW ENERGY FINANCE



## ELECTRICAL TYPICAL VALUES

Model	PS670M13GFH-22/WSH		PS675M13GFH-22/WSH		PS680M13GFH-22/WSH		PS685M13GFH-22/WSH		PS690M13GFH-22/WSH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	670	510	675	514	680	518	685	522	690	526
Rated Current (Impp)	16.10	13.00	16.13	13.03	16.16	13.05	16.19	13.07	16.22	13.10
Rated Voltage (Vmpp)	41.62	39.25	41.85	39.47	42.08	39.69	42.32	39.90	42.55	40.12
Short Circuit Current (Isc)	17.09	13.80	17.11	13.82	17.13	13.83	17.15	13.85	17.17	13.87
Open Circuit Voltage (Voc)	49.11	46.75	49.31	46.94	49.51	47.13	49.71	47.32	49.91	47.51
Module Efficiency (%)	21.57		21.73		21.89		22.05		22.21	

STC(Standard Testing Conditions):Irradance 1000W/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/S

## BIFACIAL ELECTRICAL VALUES

5%	Maximum Power (W)	697	702	707	712	718
	Module Efficiency (%)	22.43	22.60	22.27	22.93	23.10
15%	Maximum Power (W)	750	756	762	767	773
	Module Efficiency (%)	24.16	24.34	24.52	24.70	24.88
25%	Maximum Power (W)	804	810	816	822	828
	Module Efficiency (%)	25.88	26.08	26.27	26.46	26.66

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 210 x 105mm
Dimension (Lx W x H)	Length: 2384mm [93.86 inch]
	Width: 1303mm [51.30 inch]
	Height: 35mm [1.38 inch]
Weight	38.7kg [85.32 lbs]
Glass	2.0mm/2.0mm toughened glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm <sup>2</sup> (IEC), (+):450mm,(-):250mm or Customized Length
Junction Box	IP 68 Rated

## TEMPERATURE RATINGS

Voltage Temperature Coefficient	-0.22%/°C
Current Temperature Coefficient	+0.047%/°C
Power Temperature Coefficient	-0.24%/°C
Tolerance	0~+5w
NOCT	45±2°C
Bifaciality	80±5%

## ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	35A
PV Module Classification	Class II
Maximum System Voltage	DC 1500V

## PACKING CONFIGURATION

Container	40' HQ
Pieces/Container	558

## ELECTRICAL CHARACTERISTICS

