

460-480w

Helios Module Series

N-HJT HIGH EFFICIENCY MONO BM4-12B-G

Bloomberg
NEW ENERGY FINANCE

Tier1



Excellent Power Generation Performance

- Up to 85% bifaciality and up to 30% additional power generation
- Competitive high-temperature performance with ameliorated temperature coefficient (-0.26%/°C)
- Better weak illumination response of HJT technology leads higher power generation

More Environmentally Friendly

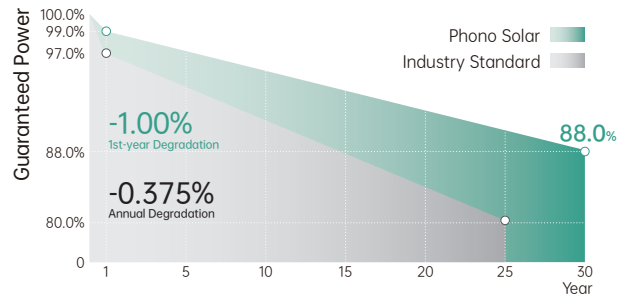
- Lower carbon emissions

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



Electrical Typical Values

Model	PS460M5GFH-24/TSH		PS465M5GFH-24/TSH		PS470M5GFH-24/TSH		PS475M5GFH-24/TSH		PS480M5GFH-24/TSH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	460	350	465	354	470	358	475	362	480	366
Rated Current (Imp)	10.15	8.20	10.22	8.25	10.28	8.30	10.35	8.36	10.41	8.41
Rated Voltage (Vmpp)	45.30	42.74	45.50	42.91	45.70	43.12	45.90	43.28	46.10	43.49
Short Circuit Current (Isc)	10.94	8.83	10.98	8.87	11.02	8.90	11.06	8.93	11.10	8.96
Open Circuit Voltage (Voc)	53.35	50.79	53.65	51.07	53.95	51.36	54.25	51.65	54.55	51.93
Module Efficiency (%)	21.16		21.39		21.62		21.85		22.08	

STC(Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

Electrical Characteristics With Different Power Bin

5%	Maximum Power (W)	478	484	489	494	499
	Module Efficiency (%)	22.01	22.25	22.49	22.73	22.97
15%	Maximum Power (W)	515	521	526	532	538
	Module Efficiency (%)	23.70	23.96	24.22	24.48	24.73
25%	Maximum Power (W)	552	558	564	570	576
	Module Efficiency (%)	25.40	25.67	25.95	26.22	26.50

Mechanical Characteristics

Cell Type	Monocrystalline 166mm x 83mm
Dimension (L × W × H)	Length: 2094mm (82.44 inch)
	Width: 1038mm (40.87 inch)
	Height: 30mm (1.18 inch)
Weight	27.5kg (60.63 lbs)
Glass	2.0mm/2.0mm toughened glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm ² (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%

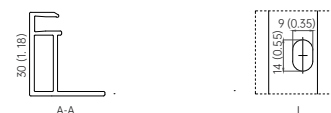
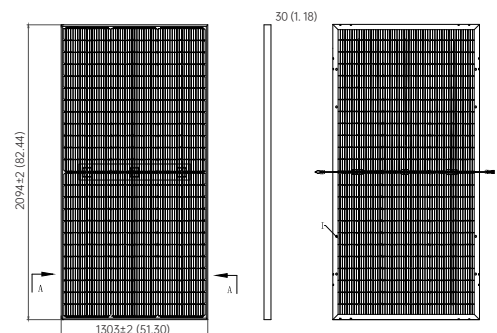
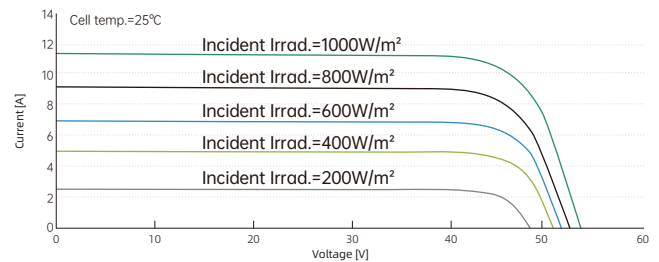
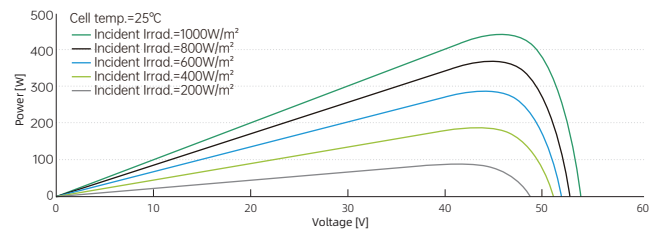
Absolute Maximum Rating

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	20A
PV Module Classification	Class II
Maximum System Voltage	DC 1500V

Packing Configuration

Container	40' HQ
Pieces/Container	792

Electrical Characteristics



Note:mm (inch)