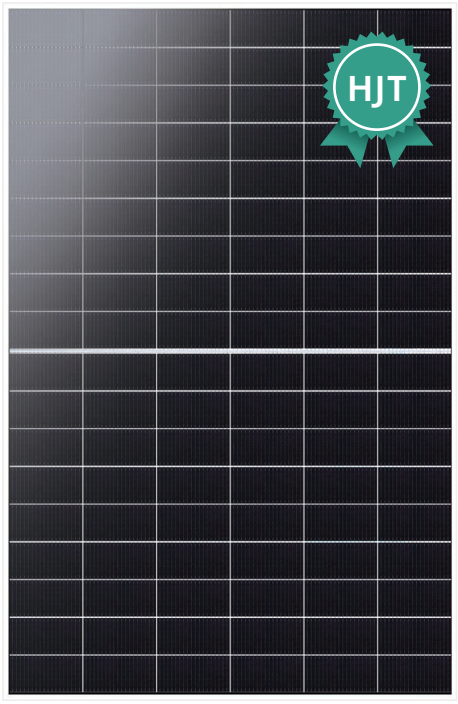


430-450w

Helios Module Series

N-HJT HIGH EFFICIENCY MONO M6-18B-G

Bloomberg NEW ENERGY FINANCE Tier1 TOP PERFORMER 2023 PVEL kiwa PV MODULE RELIABILITY SCORECARD

Light Weight Makes It Easier to Transport and Install

Excellent Power Generation Performance

- 182mm wafer with SMBB cell technology
- Over 85% bifaciality and up to 30% additional power generation
- Competitive high-temperature performance with ameliorated temperature coefficient (-0.26%/℃)
- Better weak illumination response of HJT technology leads higher power generation

Consistent Reliability

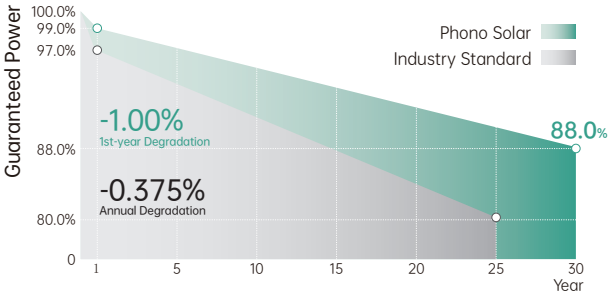
- Zero Light Induced Degradation
- Industry-leading cell technology of TCO thin film contributes to excellent anti-PID characteristic

Shorter Payback Time

- Lower BoS cost ensure a better LCOE

More Environmentally Friendly

- Low temperature welding technology & shorter manufacturing process contributes to lower carbon emissions



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

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Electrical Typical Values

Model	PS430M8GFH-18/VSH		PS435M8GFH-18/VSH		PS440M8GFH-18/VSH		PS445M8GFH-18/VSH		PS450M8GFH-18/VSH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	430	327	435	331	440	335	445	338	450	342
Rated Current (Impp)	12.84	10.35	12.89	10.39	12.94	10.43	12.99	10.47	13.04	10.51
Rated Voltage (Vmpp)	33.49	31.59	33.75	31.84	34.01	32.08	34.26	32.32	34.51	32.56
Short Circuit Current (Isc)	13.30	10.72	13.35	10.76	13.40	10.80	13.45	10.84	13.50	10.88
Open Circuit Voltage (Voc)	39.80	37.99	40.06	38.23	40.33	38.49	40.59	38.74	40.84	38.98
Module Efficiency (%)	22.02		22.28		22.53		22.79		23.04	

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

BSTC

Maximum Power (Pmax)	475	480	485	490	495
Optimum Operating Current (Impp)	14.18	14.23	14.27	14.31	14.35
Optimum Operating Voltage (Vmpp)	33.49	33.75	34.01	34.26	34.51
Short Circuit Current (Isc)	14.69	14.73	14.77	14.81	14.85
Open Circuit Voltage (Voc)	39.80	40.06	40.33	40.59	40.84

BSTC:Front side irradiation 1000W/m², back side reflection irradiation 135W/m² , AM 1.5, ambient temperature 25°C

Mechanical Characteristics

Cell Type	HJT Monocrystalline
Dimension (L × W × H)	Length: 1722mm (67.80 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	22.0kg (48.50 lbs)
Glass	1.6mm/1.6mm toughened glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm² (IEC), (+): 450mm,(-): 250mm or Customized Length
Junction Box/Connector	IP 68 Rated, Staubli EV02

Temperature Ratings

Voltage Temperature Coefficient	-0.24%/°C
Current Temperature Coefficient	+0.04%/°C
Power Temperature Coefficient	-0.26%/°C
Bin Tolerance	0~+5W
NOCT	44±2°C
Bifaciality	85±5%

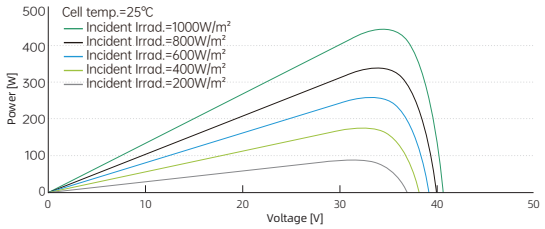
Absolute Maximum Rating

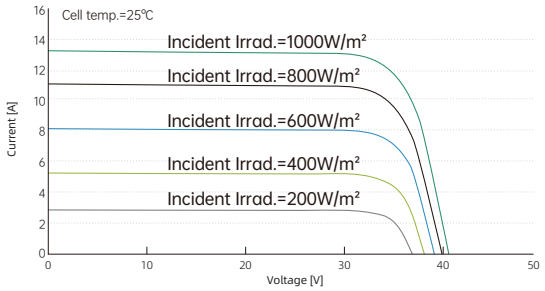
Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
PV Module Classification	Class II
Fire Rating (IEC 61730)	C
Maximum System Voltage	DC 1500V

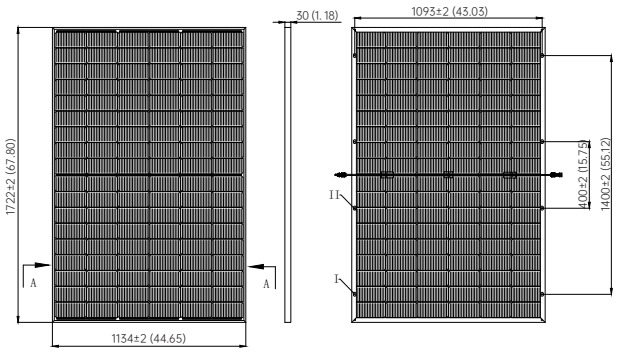
Packing Configuration

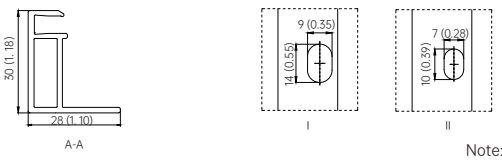
Container	40' HQ
Pieces/Container	936
Pcs/Pallet	36
Pallets/Container	26

Electrical Characteristics









Note:mm (inch)

PHONO

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