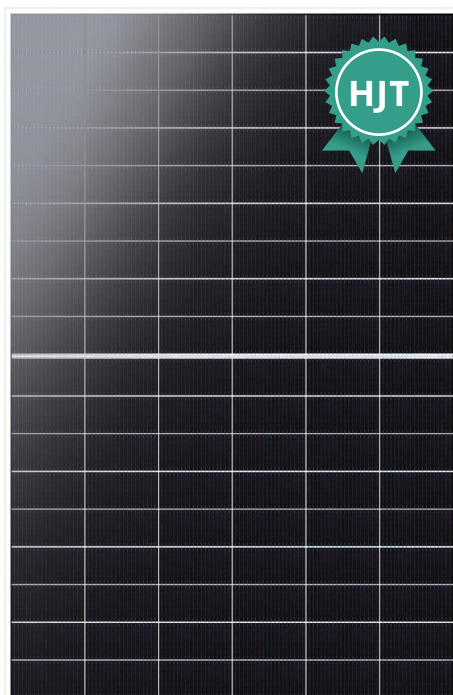




430-450w

Helios Module Series

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

Bloomberg
NEW ENERGY FINANCE

Tier1



Next Generation of Mainstream Module

Excellent Power Generation Performance

- 182mm wafer with SMBB cell technology
- Higher power generation benefited from up over 85% cell bifaciality
- Competitive high-temperature performance with ameliorated temperature coefficient ($-0.26\%/^{\circ}\text{C}$)
- Better weak illumination response of HJT technology leads higher power generation

More Environmentally Friendly

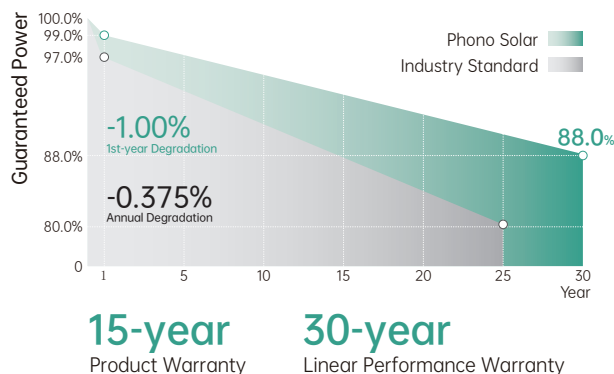
- Lower carbon emissions

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



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	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)	4mm ² (IEC), (+): 450mm,(-): 250mm or Customized Length
Junction Box	IP 68 Rated

Temperature Ratings

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

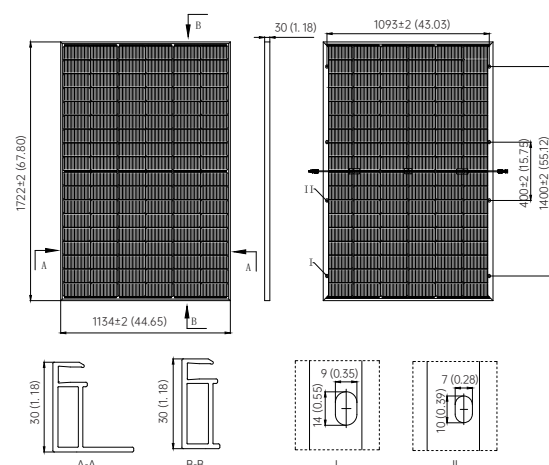
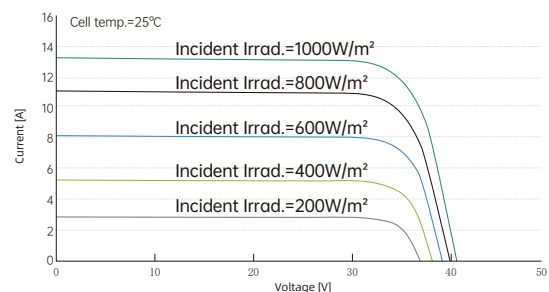
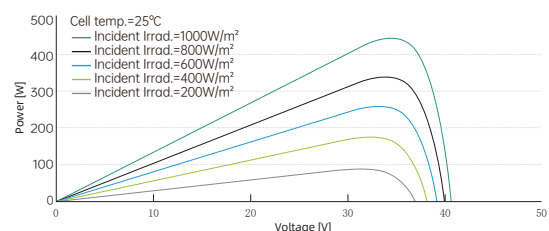
Absolute Maximum Rating

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
Maximum System Voltage	DC 1500V

Packing Configuration

Container	40' HQ
Pieces/Container	936

Electrical Characteristics



Note:mm (inch)

SUN2000-330KTL-H1

Smart String Inverter



Max. Efficiency
≥99.0%



Smart Self Clean Fan



Smart DC Connector
Temperature Detect



Smart String Level
Disconnection



28 High Accuracy String
Current Detect



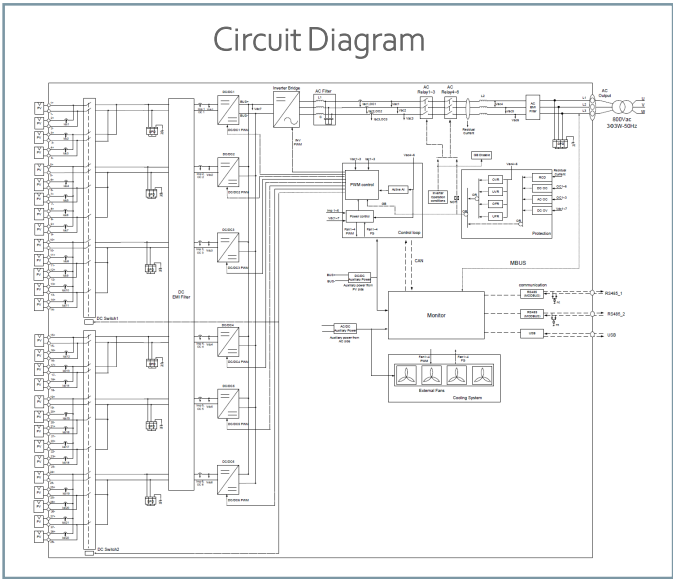
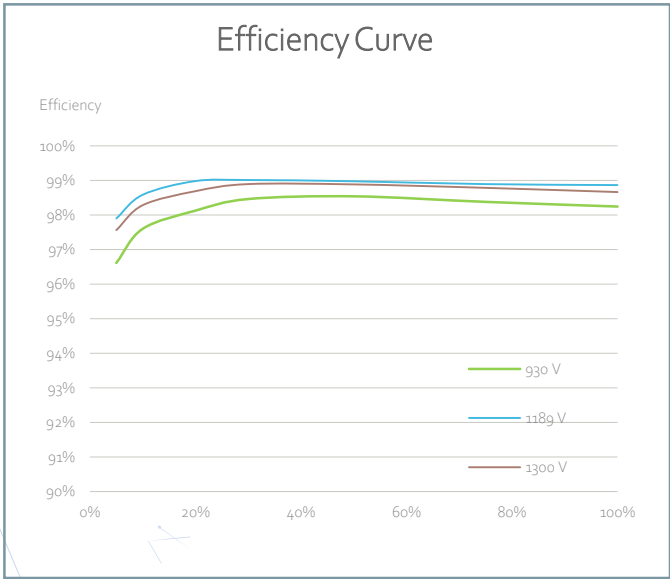
Support IV diagnosis



IP 66 protection



Surge Arresters for
DC & AC



SUN2000-330KTL-H1

Technical Specifications

Efficiency	
Max. Efficiency	≥99.0%
European Efficiency	≥98.8%
Input	
Max. Input Voltage	1,500 V
Number of MPP Trackers	6
Max. Current per MPPT	65 A
Max. Short Circuit Current per MPPT	115 A
Max. PV Inputs per MPPT	4/5/5/4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Output	
Nominal AC Active Power	300,000 W
Max. AC Apparent Power	330,000 VA
Max. AC Active Power (cosφ=1)	330,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	216.6 A
Max. Output Current	238.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Total Harmonic Distortion	< 1%
Protection	
Smart String-Level Disconnect(SSL D)	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
AC Grounding Fault Protection	Yes
Residual Current Monitoring Unit	Yes
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,048 x 732 x 395 mm
Weight (with mounting plate)	≤112 kg
Operating Temperature Range	-25 °C ~ 60 °C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless