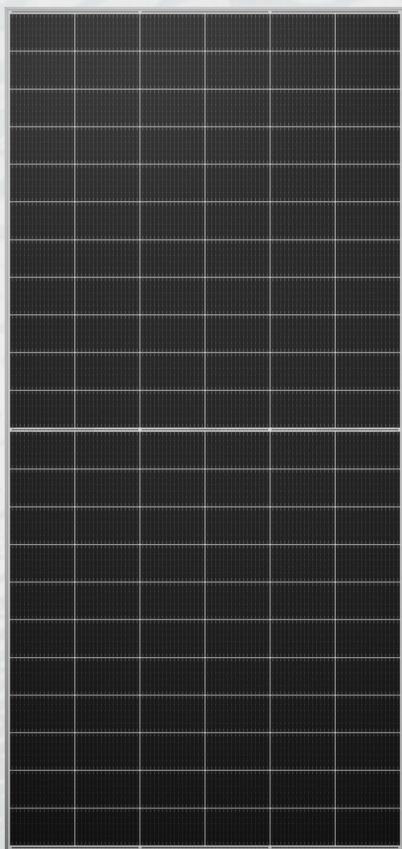




UNI H

UE650H-66HBD

HJT Rectangle Bifacial Half-cell Double-glass Solar Module



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal Choice for Rooftop System

All-black aesthetic modules, designed for residential rooftop projects.

630-650W



Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

ISO45001: 2018: Occupation Health and Safety.

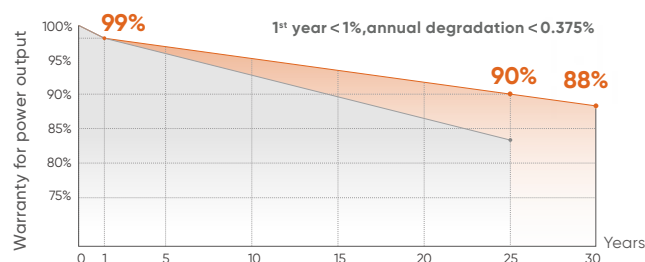
IEC62941: Guideline for module design qualification and type approval.



Quality Guarantee

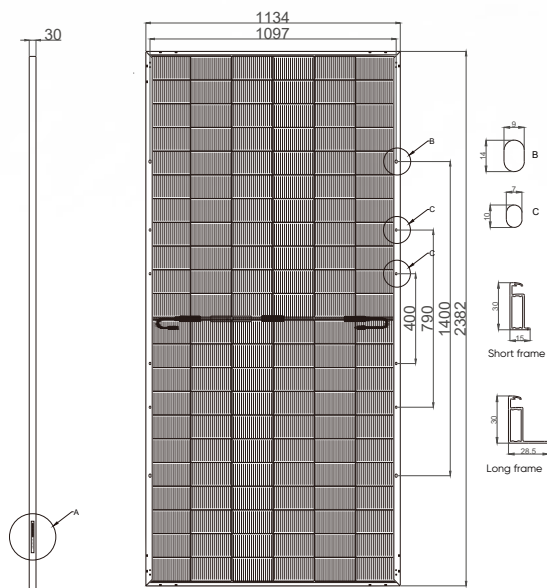
15 Year Materials Warranty

30 Year Power Warranty

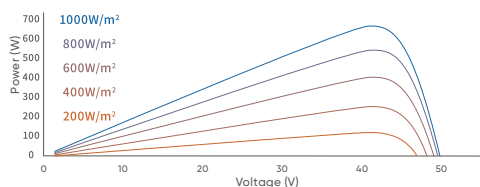
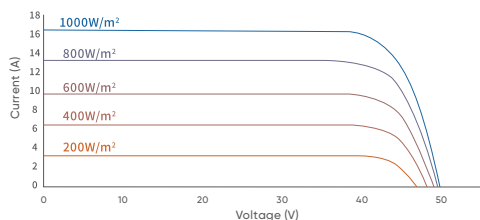


Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

Engineering Drawings



I-V Curve



Shipping Configurations

Container Size	40HQ
Pallets Per Container (pcs)	20
Modules Per Pallet (pcs)	36
Modules Per Container	720

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/ °C
Temperature Coefficient of Voc	-0.24%/ °C
Temperature Coefficient of Isc	0.04%/ °C

Electrical Characteristics (STC*)

	UE650H-66HBD	UE630	UE635	UE640	UE645	UE650
Maximum Power (Pmax)		630	635	640	645	650
Module Efficiency (%)		23.30	23.50	23.70	23.90	24.10
Optimum Operating Voltage (Vmp)		41.23	41.32	41.41	41.50	41.59
Optimum Operating Current (Imp)		15.30	15.39	15.47	15.55	15.63
Open Circuit Voltage (Voc)		49.34	49.43	49.52	49.61	49.70
Short Circuit Current (Isc)		16.16	16.26	16.36	16.46	16.56
Operating Module Temperature	-40 to +85°C					
Maximum System Voltage	DC1500V(IEC)					
Maximum Series Fuse	30A					
Power Tolerance	0~+5W					
Bifaciality	85%±5%					

STC: AM1.5, 1000W/m², 25 °C

BNPI**

Maximum Power (Pmax)	706	712	717	723	728
Optimum Operating Voltage (Vmp)	41.37	41.46	41.55	41.64	41.73
Optimum Operating Current (Imp)	17.08	17.18	17.27	17.37	17.47
Open Circuit Voltage (Voc)	49.51	49.60	49.69	49.78	49.87
Short Circuit Current (Isc)	18.12	18.24	18.35	18.46	18.57

BNPI: AM1.5, 1000W/m², 135W/m², 25 °C

NOCT**

Maximum Power (Pmax)	481	484	488	492	496
Optimum Operating Voltage (Vmp)	39.34	39.42	39.52	39.63	39.73
Optimum Operating Current (Imp)	12.23	12.30	12.36	12.43	12.49
Open Circuit Voltage (Voc)	47.09	47.18	47.26	47.35	47.44
Short Circuit Current (Isc)	12.92	13.00	13.08	13.16	13.23

NOCT: AM1.5, 800W/m², 20 °C, 1m/s.

Mechanical Characteristics

Cell Type	HJT Mono
Cell Connection	132(6*22)
Module Dimension	2382*1134*30mm
Weight	32.3kg
Junction Box	IP68
Output Cable	4mm²; 300mm or customized; UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm/1.6mm

Safety & Warranty

Safety Class	Class II
Product Warranty	15Years Workmanship
Performance Warranty	30Years Linear Warranty

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.