UNITED ENERGY | 安徽合纵

Delivering Easy and Secure Turnkey Energy Solutions

Back Contact Technology

UE670B-66HBD

Topcon BC Technology Solar Module with Bifacial Double Glass

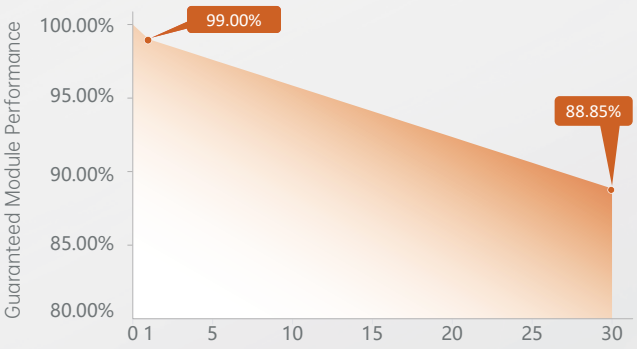
650-670 W | Maximum Efficiency | 24.8 %

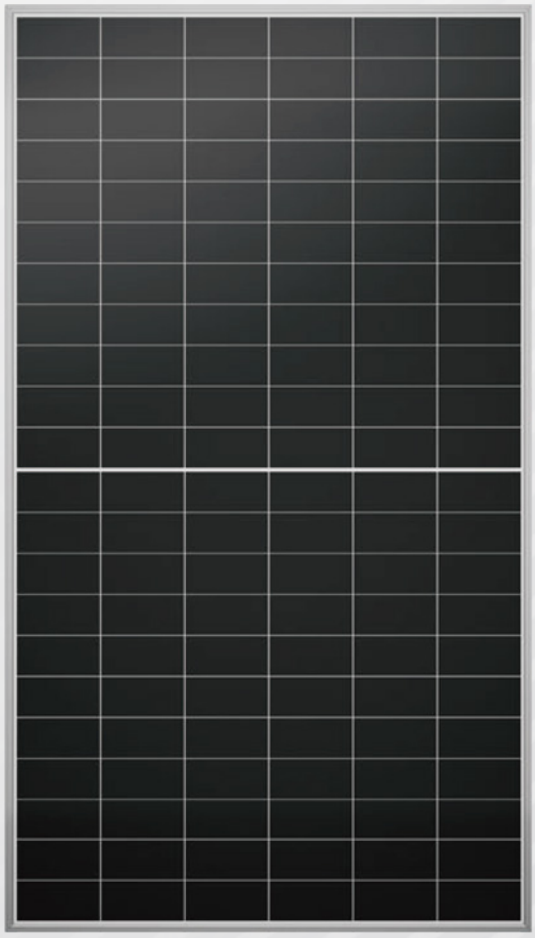
- Partial Shading Optimisation
- Better Temperature Coefficient
- Higher Power
- More Aesthetic Values
- Micro-crack Resistance
- Lower BOS

Quality Guarantee

15 year Materials Warranty

30 year Power Warranty





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.

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United Energy Co., LTD

UE670B-66HBD | 650~670W

670W Maximum Power | **24.8%** Maximum Efficiency | **0~+3%** Power Tolerance

Electrical Parameters(STC* & BNPI*)

Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax/W)	650	710	655	716	660	721	665	727	670	732
Open Circuit Voltage (Voc/V)	49.40	49.52	49.55	49.68	49.70	49.83	49.85	49.99	50.00	50.15
Short Circuit Current (Isc/A)	16.65	18.14	16.73	18.24	16.80	18.31	16.88	18.40	16.95	18.49
Voltage at Maximum power (Vmp/V)	41.23	41.21	41.32	41.32	41.41	41.39	41.50	41.50	41.59	41.57
Current at Maximum Power (Imp/A)	15.77	17.23	15.86	17.33	15.94	17.42	16.03	17.52	16.11	17.62
Module Efficiency(%)	24.10		24.20		24.40		24.60		24.80	

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5, Power measurement tolerance ±3%

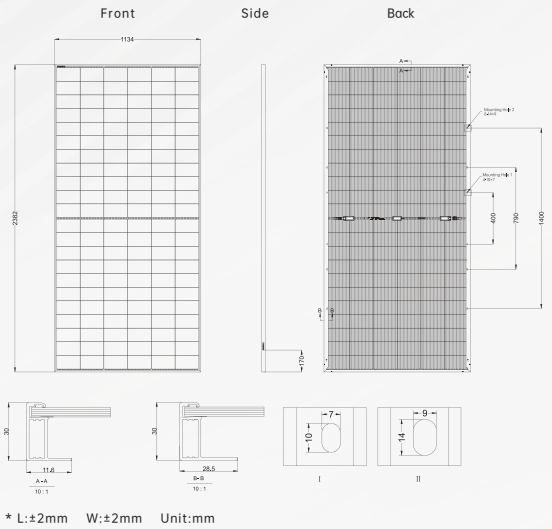
* BNPI: Front irradiance 1000W/m², rear irradiance 135W/m², ambient temperature 25°C, AM1.5, power measurement tolerance ±3%.

Electrical performance parameters under different back-side power gains*

Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Maximum power (Pmax/W)	683	715	688	721	693	726	698	732	704	737
Open Circuit Voltage (Voc/V)	49.40	49.40	49.55	49.55	49.70	54.40	49.85	49.85	50.00	50.00
Short Circuit Current (Isc/A)	17.48	18.32	17.57	18.40	17.64	18.48	17.72	18.57	17.80	18.65
Voltage at Maximum power (Vmp/V)	41.23	41.23	41.32	41.32	41.41	41.41	41.50	41.50	41.59	41.59
Current at Maximum Power (Imp/A)	16.56	17.35	16.65	17.45	16.74	17.53	16.83	17.63	16.92	17.72

*The additional gain from the rear versus the power from the front depends on parameters such as installation (structure, height, tilt, etc.) and ground albedo.

Engineering Drawings



* L:±2mm W:±2mm Unit:mm

Mechanical Parameters

Cell size	182 * 210
No. of cells	132 (66×2)
Front Glass	2.0mm high-transparency semi-tempered glass
Back Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Weight	32.5kg ±3%
Dimension	2382×1134×30mm
Junction box/diode	Protection rating IP68/3
Cable	4mm², (+)300mm, (-)200mm, or Customized Length
Maximum static load	Front 5400Pa / Back 2400Pa*
Safety protection level	Class II
IEC component fire rating	Class C
Packaging	36 pcs per pallet, 720 pcs per 40' HC

Operating Characteristics

Operating Module Temperature	-40°C to +70°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Double-sided Ratio	75±5%

Temperature Characteristics

Nominal Operating Temperature (NMOT)	43±2°C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.05%/°C

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