UNITED ENERGY | 安徽合纵

Delivering Easy and Secure Turnkey Energy Solutions

Back Contact Technology

UE485B-54HBD

Topcon BC Technology Solar Module with Bifacial Double Glass

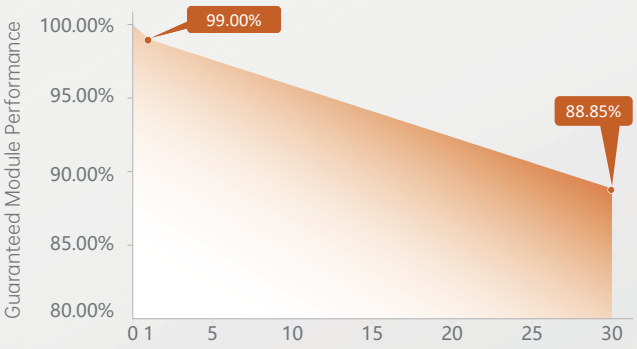
465-485 W | Maximum Efficiency | 24.3 %

- 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

UE485B-54HBD | 465~485W

485W Maximum Power | **24.3%** Maximum Efficiency | **0~+3%** Power Tolerance

Electrical Parameters(STC*)

Maximum power (Pmax/W)	465	470	475	480	485
Open Circuit Voltage (Voc/V)	41.12	41.18	41.24	41.30	41.36
Short Circuit Current (Isc/A)	14.29	14.32	14.36	14.41	14.47
Voltage at Maximum power (Vmp/V)	34.68	34.74	34.80	34.86	34.92
Current at Maximum Power (Imp/A)	13.41	13.54	13.66	13.78	13.90
Module Efficiency(%)	23.30	23.60	23.80	24.10	24.30

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

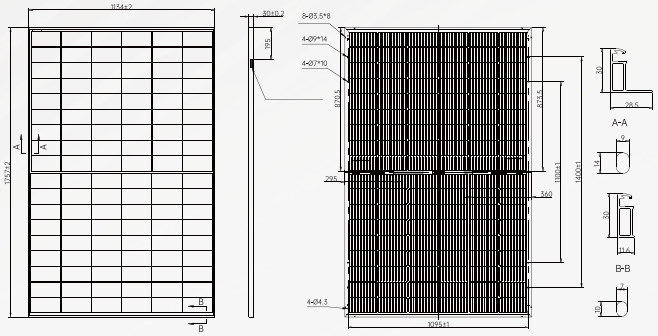
* BNPI: Front irradiance 1000W/m², rear irradiance 135W/m², ambient temperature 25°C, AM1.5, power measurement tolerance ±3%.

Electrical Parameters(NOCT*)

Maximum power (Pmax/W)	350	354	358	362	366
Open Circuit Voltage (Voc/V)	38.83	38.89	38.95	39.01	39.07
Short Circuit Current (Isc/A)	11.55	11.58	11.62	11.66	11.70
Voltage at Maximum power (Vmp/V)	32.75	32.81	32.86	32.92	32.98
Current at Maximum Power (Imp/A)	10.71	10.80	10.90	11.00	11.10

*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



Mechanical Parameters

Cell Type	BC
No. of cells	108 (54×2)
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Black anodized aluminum
Weight	24.3kg
Dimension	1757×1134×30mm
Output Cables	TüV 1×4mm , (+)300mm, (-)200mm, or Customized Length
Connector	MC4 Compatible/MC4-Evo2
Maximum static load	Front 5400Pa / Back 2400Pa*
Hailstone Test	25 mm diameter hail at 23 m/s
Safety protection level	Class II
IEC component fire rating	Class C
Packaging	37 pcs per pallet, 222 pcs per 20' GP, 962 pcs per 40' HC

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Double-sided Ratio	70±5%

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±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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