UNITED ENERGY | 安徽合纵

Delivering Easy and Secure Turnkey Energy Solutions

Back Contact Technology

UE530B-60HBD

Topcon BC Technology Solar Module with Bifacial Double Glass

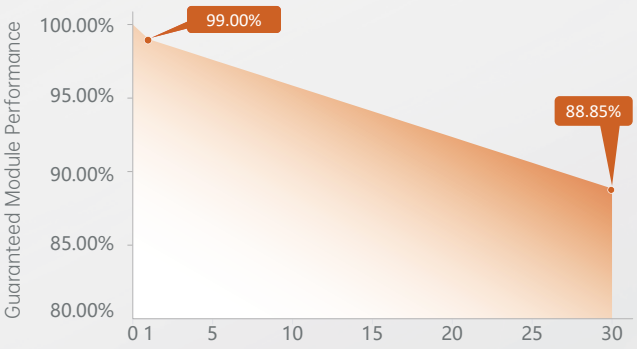
510-530 W | Maximum Efficiency | 23.9 %

- 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

UE530B-60HBD | 510~530W

530W Maximum Power | **23.9%** Maximum Efficiency | **0~+3%** Power Tolerance

Electrical Parameters(STC*)

Maximum power (Pmax/W)	510	515	520	525	530
Open Circuit Voltage (Voc/V)	45.20	45.30	45.42	45.52	45.62
Short Circuit Current (Isc/A)	14.17	14.23	14.29	14.35	14.41
Voltage at Maximum power (Vmp/V)	38.10	38.20	38.30	38.40	38.50
Current at Maximum Power (Imp/A)	13.39	13.49	13.58	13.68	13.77
Module Efficiency(%)	23.00	23.20	23.50	23.70	23.90

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

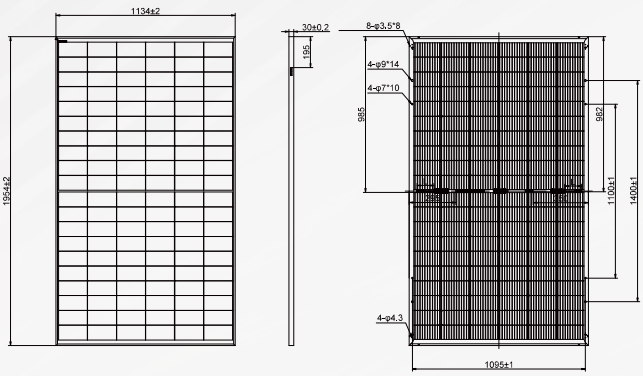
* BNPI: Front irradiance 1000W/m², rear irradiance 135W/m², ambient temperature 25°C, AM1.5, power measurement tolerance ±3%.

Electrical Parameters(NOCT*)

Maximum power (Pmax/W)	386	390	394	398	402
Open Circuit Voltage (Voc/V)	42.90	42.99	43.09	43.18	43.27
Short Circuit Current (Isc/A)	11.46	11.51	11.56	11.61	11.66
Voltage at Maximum power (Vmp/V)	36.15	36.24	36.34	36.43	36.53
Current at Maximum Power (Imp/A)	10.70	10.78	10.86	10.93	11.01

*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



Tolerance

L: ±2mm
W: ±2mm
Unit: mm

Mechanical Parameters

Cell size	182 * 182
No. of cells	120 (60×2)
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Black anodized aluminum
Weight	27.0kg
Dimension	1954×1134×30mm
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, 148 pcs per 20' GP, 888 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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