

EVO B

# 770-805W

SE6R-78HBC

High Efficiency Back Contact Dual Glass  
Solar PV Module



25.1% Max. Module Efficiency

## High-efficiency Cells

The cell efficiency is higher than 25%.

## Outstanding Performance

EVO B improves power generation capacity greatly with comprehensive upgrade of Back Contact cells and modules.

## Aesthetic Appearance

EVO B simplifies the complexity and redefines the aesthetic concept of photovoltaic modules.

## Market-leading Reliability

EVO B pioneers the adoption of full back welding technology to effectively improve the resistance to micro cracking of modules.

## Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost.

## Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

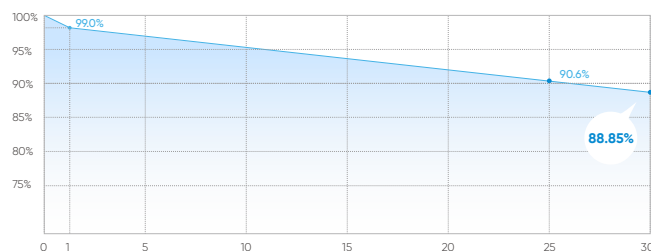
ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

## Quality Guarantee

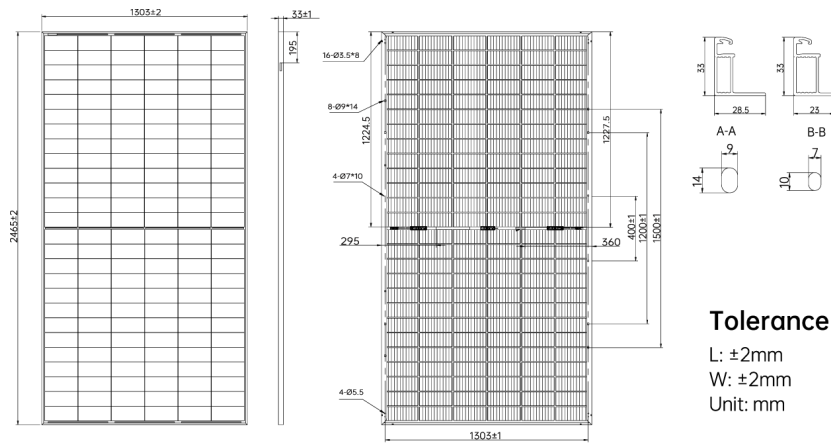
25-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output



Drawings

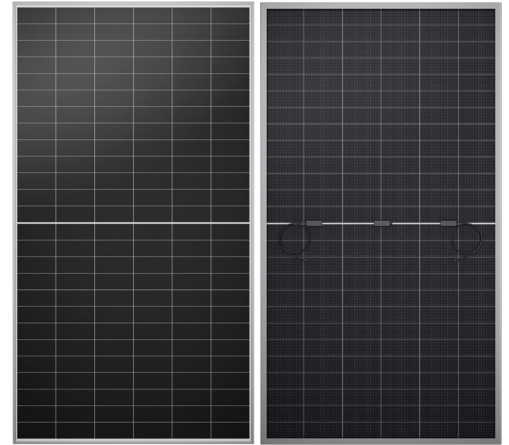
(Unit: mm)



Tolerance

L: ±2mm  
W: ±2mm  
Unit: mm

Product Image



Mechanical Characteristics

Cell Orientation	156 (6×26)
Junction Box	IP68, 3 bypass diodes
Output Cable	4mm <sup>2</sup> , ±1200mm length can be customized
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Anodized aluminum
Weight	39.8kg±3%
Dimension	2465 × 1303 × 33mm
Packaging	33pcs per pallet / 132pcs per 20'GP / 594pcs per 40'HC
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Operating Parameters

Operational Temperature	-40°C~+70°C
Power Output Tolerance	0~3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C

Temperature Ratings (STC\*)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.220%/°C
Temperature Coefficient of Pmax	-0.260%/°C

Electrical Parameters (STC\*)

Module Type: SE6R-78HBC	770	775	780	785	790	795	800	805
Maximum Power (Pmax/W)	770	775	780	785	790	795	800	805
Open Circuit Voltage (Voc/V)	58.72	58.82	58.92	59.02	59.12	59.22	59.32	59.42
Short Circuit Current (Isc/A)	16.64	16.71	16.78	16.85	16.92	16.99	17.06	17.13
Voltage at Maximum Power (Vmp/V)	48.77	48.87	48.97	49.07	49.17	49.27	49.36	49.46
Current at Maximum Power (Imp/A)	15.79	15.86	15.93	16.00	16.07	16.14	16.21	16.28
Module Efficiency (%)	24.40	24.10	24.30	24.40	24.60	24.80	24.90	25.10

Electrical Parameters (NOCT\*)

Maximum Power (Pmax/W)	584	588	592	595	599	603	607	610
Open Circuit Voltage (Voc/V)	55.68	55.77	55.87	55.96	56.05	56.15	56.24	56.34
Short Circuit Current (Isc/A)	13.40	13.46	13.53	13.59	13.66	13.72	13.78	13.85
Voltage at Maximum Power (Vmp/V)	46.36	46.46	46.55	46.65	46.74	46.84	46.93	47.03
Current at Maximum Power (Imp/A)	12.60	12.65	12.71	12.76	12.82	12.87	12.93	12.98

\*STC: AM1.5 1000W/m<sup>2</sup> 25°C    \*NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s