

SE5-20HBD

EVO T

# 160-180W

High Transmittance Double Glass  
Bifacial Frameless Solar PV Module



#### Working Condition Compatibility & Safety

High Resistance to High Temp., High Humidity, Sand, Acid and Alkali Environment;



#### Optimized Power Gain

Use N-type cells, no light-induced degradation (LID), increase power generation;



#### Unique Design with High Transmittance

Unique layout design can meet the requirements of excellent light transmittance and waterproof;



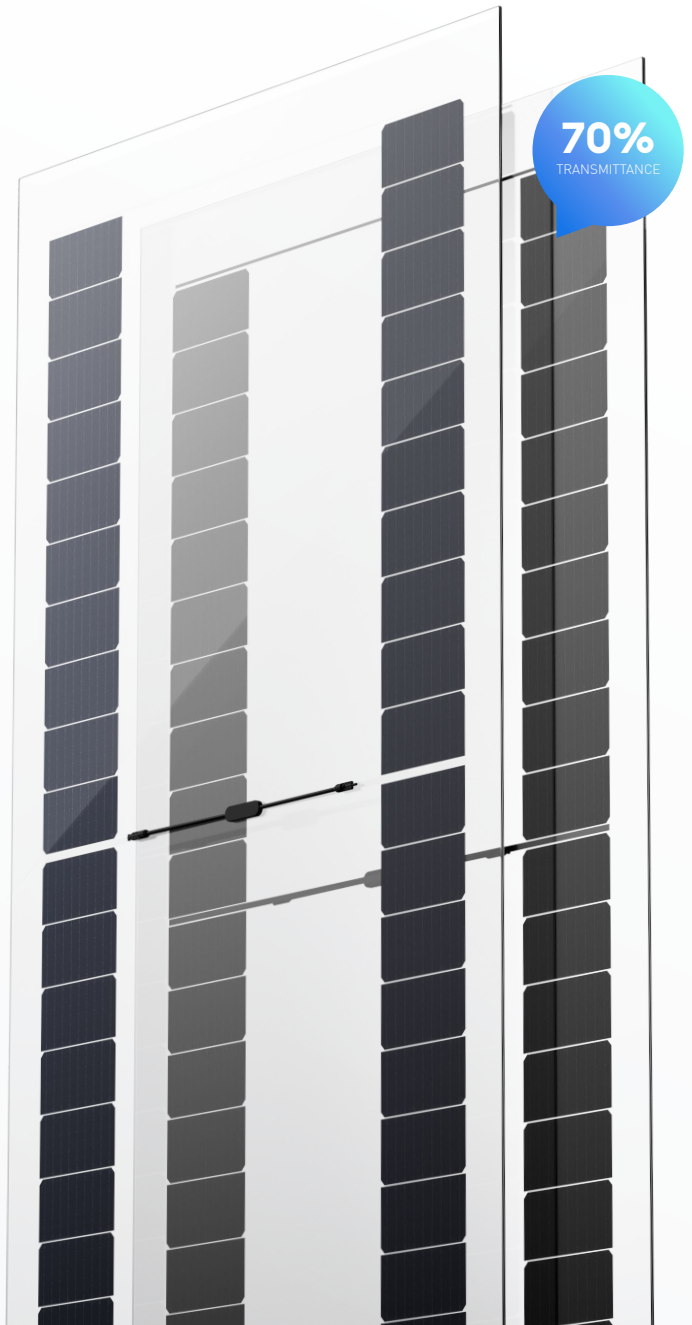
#### Excellent Low-light Performance

Excellent low-light response, higher power generation under low-light conditions;



#### Higher Bifaciality

Higher bifaciality, the additional power generation of modules is up to 30% higher than that of conventional modules.



## Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

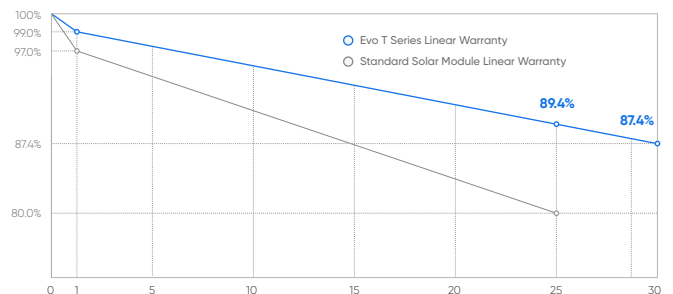
ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

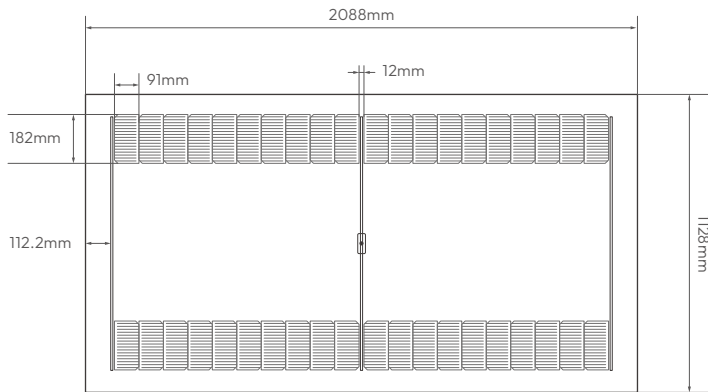


## Quality Guarantee

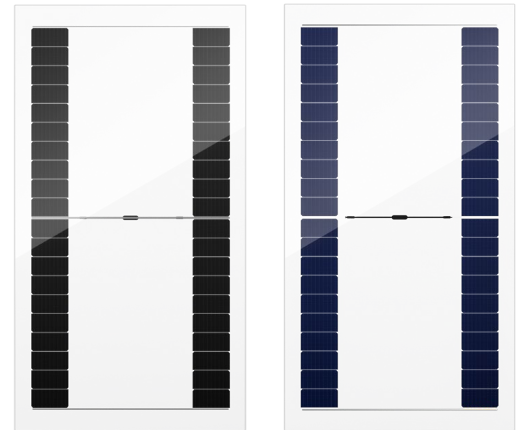
NO MORE THAN 0.45%  
ANNUAL DEGRADATION OVER 30 YEARS



Drawings



Product Image



Mechanical Specifications

Cell Type	N Type Mono Cells
Cells Layout	2*20
Dimension	2088*1128*5mm
Weight	27kg
Front Glass	2mm Semi Tempered Coated Glass
Inter Layer	EVA/POE/PVB
Back Glass	2mm Semi Tempered Glass
Junction Box	IP68 Rated
Connector	MC4 (or Equivalent)
Frame	Optional
Maximum Load Capacity	2400(Wind Load)/5400(Snow Load)
Bifaciality	80±5%

Working Conditions

Maximum System Voltage	1500V DC(IEC)
Operating Temperature	-40°C~+85°C
Nominal Operating Cell Temperature	42±3°C
Maximum rated current	25A

Temperature Coefficients

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.04%/°C

Package Configuration

34 Pcs / Pallet	612 Pcs / 40'HQ
-----------------	-----------------

Electrical Parameters (STC\*)

Module Type: SE5-20HBD	160	165	170	175	180
Maximum Power (Pmax/W)	160	165	170	175	180
Open Circuit Voltage (Voc/V)	14.06	14.28	14.50	14.72	14.84
Short Circuit Current (Isc/A)	13.77	13.90	14.03	14.20	14.33
Voltage at Maximum Power (Vmp/V)	12.30	12.49	12.68	12.87	13.06
Current at Maximum Power (Imp/A)	13.01	13.21	13.40	13.60	13.78
Power Tolerance (W)	0~+5				

\*STC: Air Mass AM1.5, Irradiance 1000W/m, Cell temperature 25°C.

Comprehensive Electric Parameters (Taking 180W as an example)

Back Gain	Pmax(W)	Voc(V)	Isc(A)	Vmp(V)	Imp(A)
5%	189	15.58	15.05	13.71	14.47
10%	198	16.32	15.76	14.37	15.16
15%	207	17.07	16.48	15.02	15.85
20%	216	17.81	17.20	15.67	16.54
25%	225	18.55	17.91	16.33	17.23