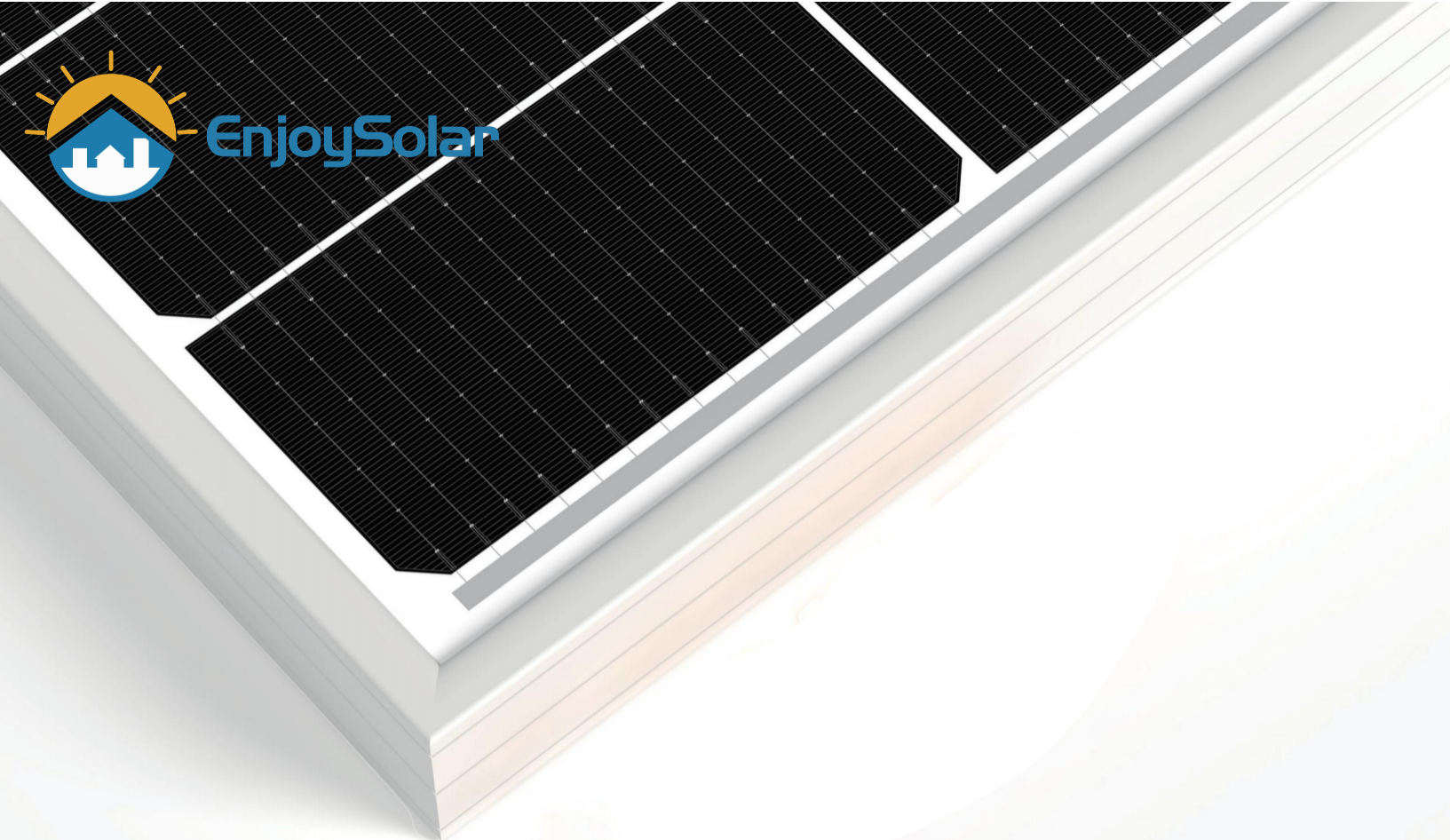




Bifacial

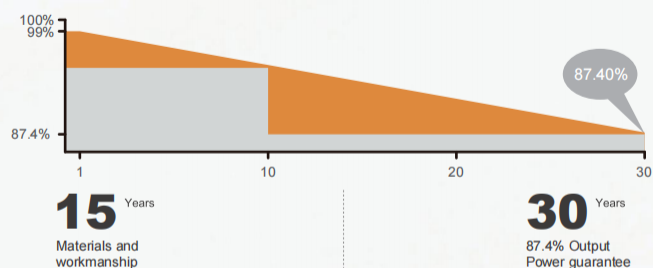
N Type

Topcon

ES700~720-66M-H12NS **700~720 Watt**

210mm 132Cells Double Glass Bifacial
Mono PV Module Series

Enjoy Solar N Type Linear Warranty



SMBB Technology
Half Cut N Type Cell



High Energy
Performance



100% Inspection
30years Guarantee



Fire Class A

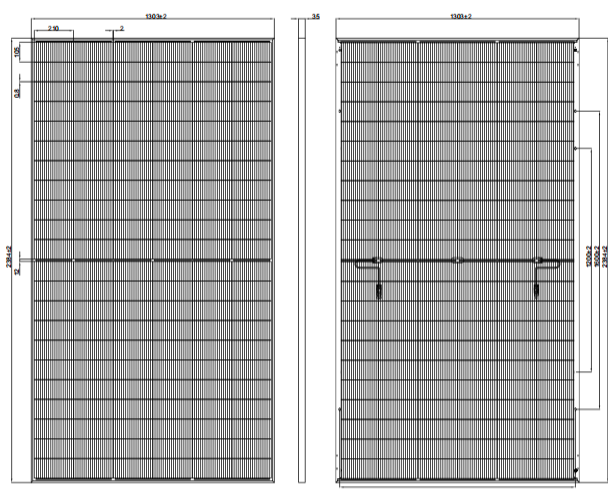


5400Pa
Strengthened
Mechanical Load



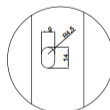
Advanced Bifacial
Efficiency



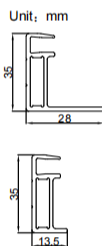


All Dimensions in mm

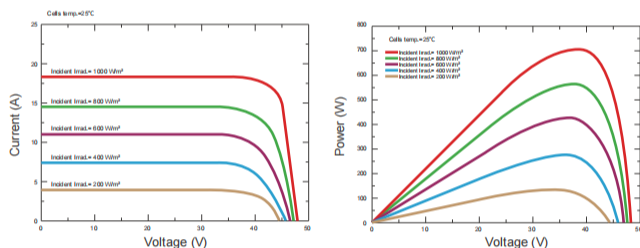
The above drawing is a graphical representation of the product.



Unit: mm



Current-Voltage & Power-Voltage Curves (ES700-66M-H12NS)



Electrical Characteristics (STC/NOCT)

Module Type	ES700-66M-H12NS		ES705-66M-H12NS		ES710-66M-H12NS		ES715-66M-H12NS		ES720-66M-H12NS	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	700	534	705	538	710	541	715	545	720	549
Open Circuit Voltage - Voc(V)	48.20	45.75	48.40	45.95	48.60	46.15	48.80	46.35	49.00	46.55
Short- Circuit Current - Isc(A)	18.48	14.82	18.52	14.86	18.57	14.91	18.61	14.94	18.65	14.97
Voltage at Pmax -Vmp(V)	40.20	38.00	40.40	38.20	40.60	38.35	40.80	38.55	41.00	38.75
Current at Pmax - Imp(A)	17.41	14.05	17.45	14.08	17.49	14.11	17.52	14.14	17.56	14.17
Module Efficiency -ηm(%)	22.53	/	22.70	/	22.86	/	23.12	/	23.18	/
Power Tolerance(W)	(0, +5W)									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	35A									

*STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

*NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

*Measurement tolerance: ±3% *Power binning up to: +3%

Mechanical Specifications

External Dimensions	2384×1303×35mm
Weight	37.8kg
Solar Cells	Mono crystalline 210mm (2×66pcs)
Glass	AR Coated 2+2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm², 300mm (+), 300mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature Range	-40~+85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C

Bifacial Output Rear Side Power Gain

*Take ES700-66M-H12NS as an example

Power Gain	5%	10%	25%
Maximum Power- Pmax(W)	735.0	770.0	875.0
Open Circuit Voltage - Voc(V)	48.20	48.20	48.20
Short- Circuit Current - Isc(A)	19.36	20.27	22.79
Voltage at Pmax -Vmp(V)	40.20	40.20	40.20
Current at Pmax - Imp(A)	18.28	19.15	21.76

Packing Configuration

Pallet Dimensions	1320×1125×2495mm		
Ways of Transport	40'HQ	13.5m Flatbed Truck	17.5m Flatbed Truck
Pieces per Pallet	31 Pcs	31 Pcs	31 Pcs
Pallets per Container	18 Pallets	16 Pallets	24 Pallets
Pieces per Container	558 Pcs	496 Pcs	744 Pcs