

TOPCon N type Bifacial Mono-crystalline 560-580Watt

0~+5W POWER TOLERANCE

High efficiency TOPCon N - type solar module



Module characteristics



Strong Mechanical Strength

Pass the wind load test of 2400Mpa and the snow load test of 5400Mpa



Lower attenuation rate

N-type, good reliability and lower LID/LETID attenuation



PID resistance

The attenuation probability of PID phenomenon is minimized through solar cell production technology optimization and raw material control



Harsh environmental adaptation

Robust design for demanding climate conditions.



Multiple busbar and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability



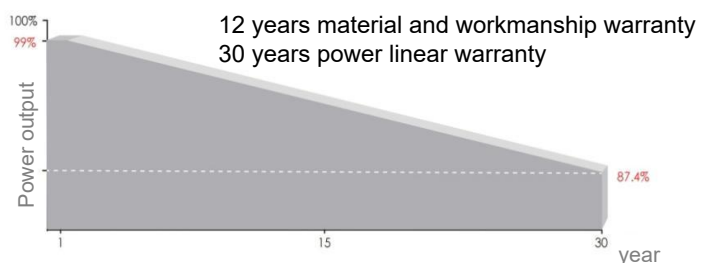
Long and reliable quality assurance

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



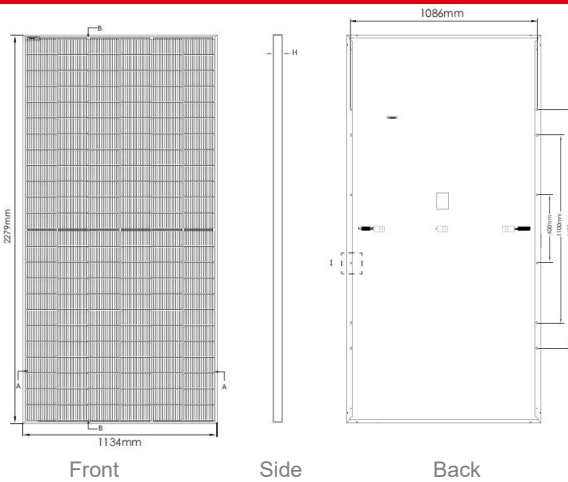
Linear attenuation of 0.4% per year from the 2nd to 30th year.

Electrical Parameters

Model Type	ESM-560T		ESM-565T		ESM-570T		ESM-575T		ESM-580T	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	560	421	565	425	570	429	575	433	580	437
Open Circuit Voltage (Voc)	50.47	47.94	50.60	48.06	50.74	48.20	50.88	48.29	51.00	48.37
Short Circuit Current (Isc)	14.15	11.42	14.23	11.49	14.31	11.57	14.38	11.66	14.39	11.73
Maximum Power Voltage (Vmp)	41.77	39.25	41.92	39.38	42.01	39.51	42.10	39.64	42.19	39.71
Maximum Power Current (Imp)	13.41	10.73	13.48	10.79	13.55	10.85	13.65	10.92	13.75	11.00
Module Efficiency - η_m (%)	21.66		21.86		22.06		21.26		22.46	
Operational Temperature	-40°C ~ +85°C									
Maximum System Voltage	1500VDC									
Maximum Series Fuse Rating	25A									
Power Tolerance	0 ~ +3%									
Temperature Coefficient of Pmax	-0.310%/°C									
Temperature Coefficient of Voc	-0.260%/°C									
Temperature Coefficient of Isc	+0.046%/°C									
Nominal Operating Cell Temperature	45 ± 2°C									
Safety Class	Class II									
Max Load (Front/back)	5400Mpa/2400Mpa									

STC: Irradiance 1000W/m² Cell temperature 25°C Atmospheric quality = 1.5
 NOCT: Irradiance 800W/m² Ambient temperature 25°C Atmospheric quality = 1.5 Wind speed 1m/S

Mechanical Diagrams



Length: ± 2mm
 Width: ± 2mm
 Thickness: ± 1mm
 Hole pitch: ± 2mm

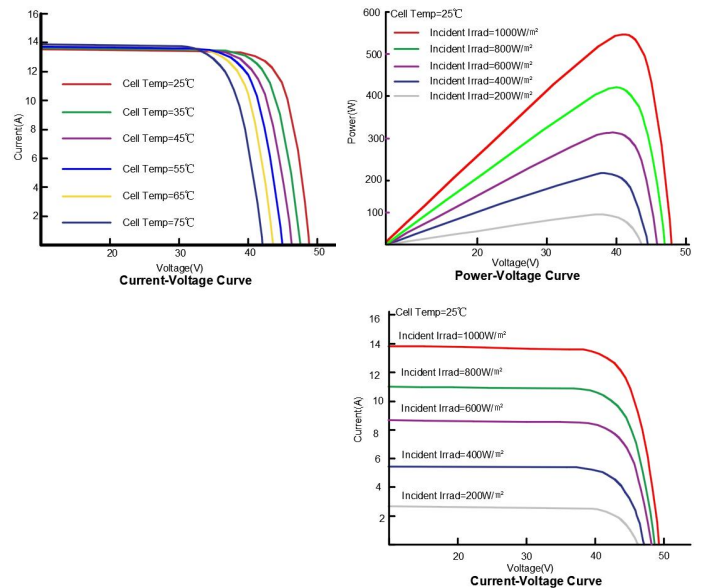
Packing Details:

31pcs/pallet, Pallet size: 2314×1130×1245mm
 40GP: 20 pallets/40HQ, 620pcs/40'HQ

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Curve



Specification

Cell type	N type mono crystalline 182mm
Half-cell quantity	144pcs (6×22)
Dimension	2279×1134×35mm
Weight	28kg±3%
Glass	3.2mm tempered and AR coated
Frame	Silver Anodized Aluminum Alloy
Junction Box	IP68
Cable	1200mm (can be customized)

The company reserves the right of final right of adjustment of this file.