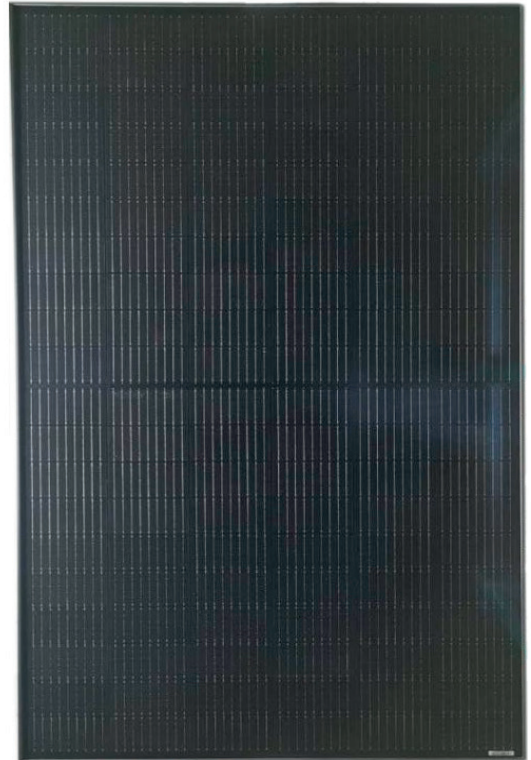
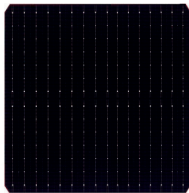


TOPCon N type Mono-crystalline







505 Watt

0~+3% POWER TOLERANCE

High efficiency TOPCon N - type solar module



Module characteristics

 <p>Strong Mechanical Strength Pass wind load test of 2400Mpa and snow load test of 5400Mpa</p>	 <p>Lower attenuation N-type components have better reliability and lower LID/LETID attenuation</p>
 <p>PID resistance The attenuation probability of PID phenomenon is minimized through solar cell production technology optimization and material control</p>	 <p>Harsh environmental adaptation Third party certification for salt spray and ammonia corrosion tests</p>
 <p>Multiple busbar and Half cell technique More light utilization and current collection capabilities, effectively improving product power output and reliability</p>	

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

Warranty

- Linear warranty: 12 years 92% performance and 30 years 83% performance
- Material: 25 years

Technical Parameters

Model Type	505S	
	STC	NOCT
Maximum Power (Pmax)	505	382
Open Circuit Voltage (Voc)	45.55	43.28
Short Circuit Current (Isc)	13.88	13.86
Maximum Power Voltage (Vmp)	38.45	35.62
Maximum Power Current (Imp)	13.14	10.72
Module Efficiency - η_m (%)	21.26	
Operational Temperature	-40°C ~ +85°C	
Maximum System Voltage	1500VDC	
Maximum Series Fuse Rating	25A	
Power Tolerance	0 ~ +3%	
Temperature Coefficient of Pmax	-0.31%/°C	
Temperature Coefficient of Voc	-0.26%/°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

Module temperature 25°C

Air Mass = 1.5

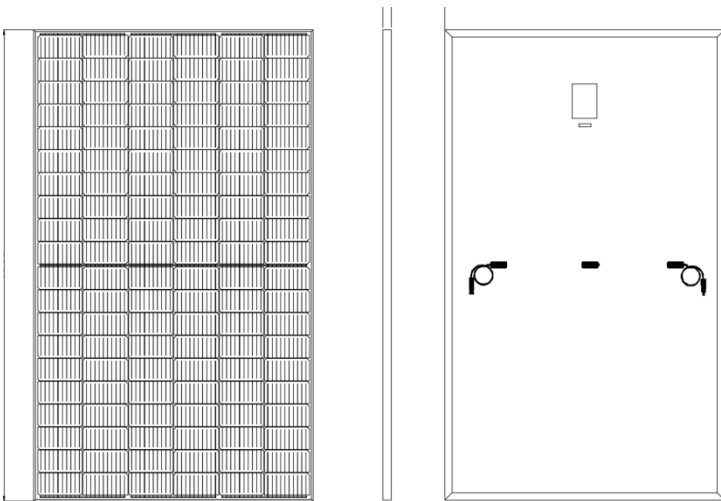
NOCT: Irradiance 800W/m²

Ambient temperature 25°C

Air Mass = 1.5

Wind speed 1m/S

Mechanical Diagrams



Length: ± 2mm

Width: ± 2mm

Thickness: ± 1mm

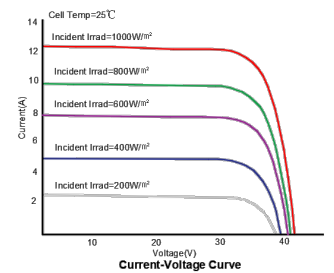
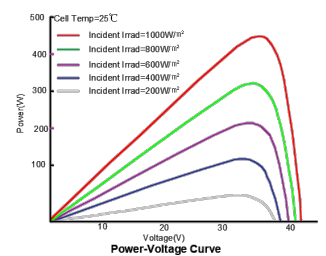
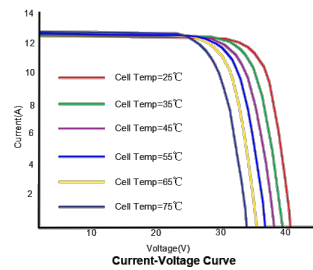
Hole pitch: ± 2mm

Packing standard

36pcs/pallet

40GP: 22 pallets/container, 792pcs/40'HQ

IV Curve



Specification

Cell type	N type mono crystalline 182"
Half-cell quantity	132pcs (6×22)
Dimension	2094 (±2) × 1134 × 30mm
Weight	25kg ± 3%
Glass	3.2mm
Frame	Sliver/black Anodized Aluminum Alloy
Junction Box	IP68
Cable	300mm (can be customized)