

# Half Cells MBB

## 550~600 Watt

*BIFACIAL MODULE WITH  
TRANSPARENT BACKSHEET*

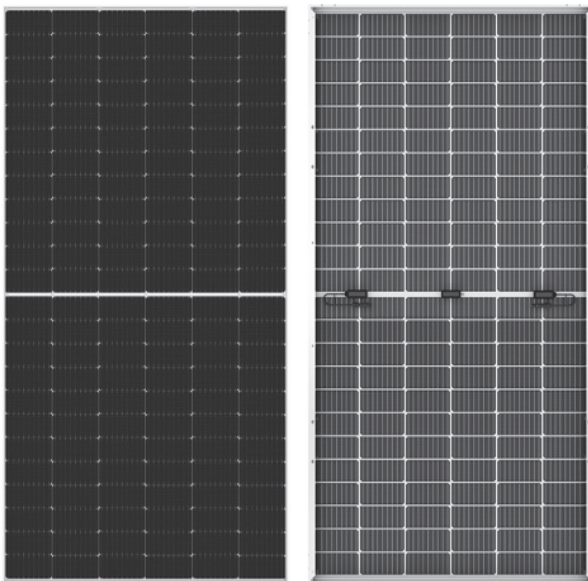
*Positive power tolerance of 0~+3%*

IEC61215(2016), IEC61730(2016)  
ISO9001:2015: Quality Management System  
ISO14001:2015: Environment Management System  
ISO45001:2018  
Occupational health and safety management systems

Bifacial Technology



## Key Features



Front

Back



### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



### Light-weight design

Light-weight design using transparent backsheet for easy installation and low BOS cost.



### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



### Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.



### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

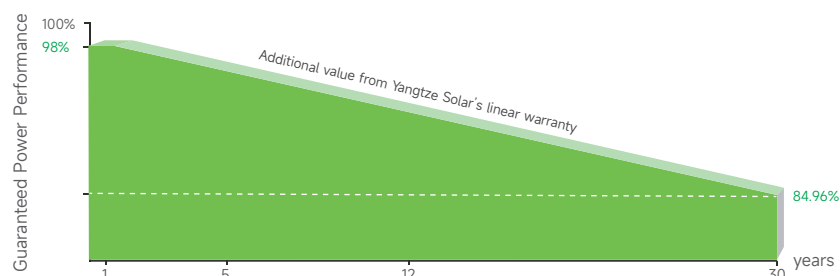


## Linear Performance Warranty

12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years



# Specifications

Module Type	YS550M-144	YS560M-144	YS570M-144	YS580M-144	YS590M-144	YS600M-144
Maximum Power (Pmax)	550W	560W	570W	580W	590W	600W
Maximum Power Voltage (Vmp)	40.90V	41.10V	41.30V	41.50V	41.90V	42.10V
Maximum Power Current (Imp)	13.45A	13.63A	13.80A	13.98A	14.08A	14.25A
Open-circuit Voltage (Voc)	49.62V	49.72V	49.82V	49.91V	49.95V	49.99V
Short-circuit Current (Isc)	14.03A	14.33A	14.62A	14.81A	14.92A	14.97A
Module Efficiency STC (%)	21.33%	21.72%	22.10%	22.49%	22.87%	23.27%
Operating Temperature(°C)	-40°C~+85°C					
Maximum system voltage	1000/1500VDC(IEC)					
Maximum series fuse rating	25A					
Power tolerance	0~+3%					
Temperature coefficients of Pmax	-0.35%/°C					
Temperature coefficients of Voc	-0.28%/°C					
Temperature coefficients of Isc	0.048%/°C					
Nominal operating cell temperature (NOCT)	45±2°C					

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

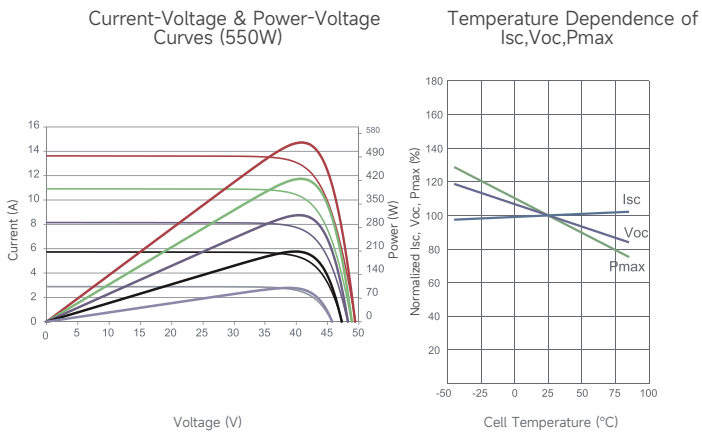
		YS550M-144	YS560M-144	YS570M-144	YS580M-144	YS590M-144	YS600M-144
5%	Maximum Power(Pmax)	577Wp	588Wp	598Wp	609Wp	619Wp	
	Module Efficiency STC(%)	22.37%	22.80%	23.21%	23.62%	24.02%	
15%	Maximum Power(Pmax)	632Wp	644Wp	655Wp	667Wp	678Wp	
	Module Efficiency STC(%)	24.51%	24.97%	25.42%	25.86%	26.31%	
25%	Maximum Power(Pmax)	687Wp	700Wp	712Wp	725Wp	737Wp	
	Module Efficiency STC(%)	26.64%	27.14%	27.63%	28.11%	28.60%	

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5

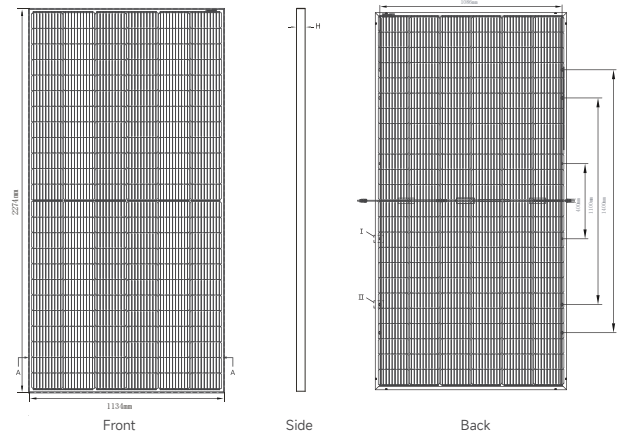
\*NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance:±3%

## Engineering Drawings



## Electrical Performance & Temperature Dependence

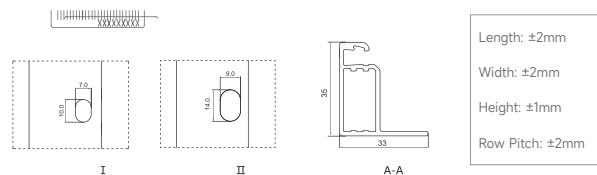


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallet, 62pcs/stack, 620pcs/ 40'HQ Container

## Mechanical Characteristics



Cell Type	No. of cells	Dimensions	Weight	Front Glass	Frame	Junction Box	Output Cables
Mono-crystalline	144(6×24)	2274×1134×35mm (89.53×44.65×1.38 inch)	28.9kg (63.7 lbs)	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	Anodized Aluminium Alloy	IP68 Rated	TUV 1×4.0mm(+); 400mm, (-); 200mm or Customized Length