

# Yangtze Solar Bifacial Solar Panel (72 Cells) 390~420Watt

MONO CRYSTALLINE MODULE

ISO9001:2008、ISO14001:2004、OHSAS18001  
certified factory.  
IEC61215、IEC61730 certified products.



## KEY FEATURES



### Positive tolerancez:

Positive tolerance of up to 5W delivers higher output reliability.



### PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Higher Lifetime Power Yield

0.5% annual power degradation  
30 year linear power warranty



### Saving BOS Cost

Designed for high voltage systems of up to 1500 VDC, saving BOS cost



### Higher power output

Module power increases 5-25% generally (per different reflective condition)  
lower LCOE and higher IRR



### Better low-light performance

Excellent performance in low-light environments  
(e.g. early morning, dusk, and cloud, etc.)



### Strengthened Mechanical Support

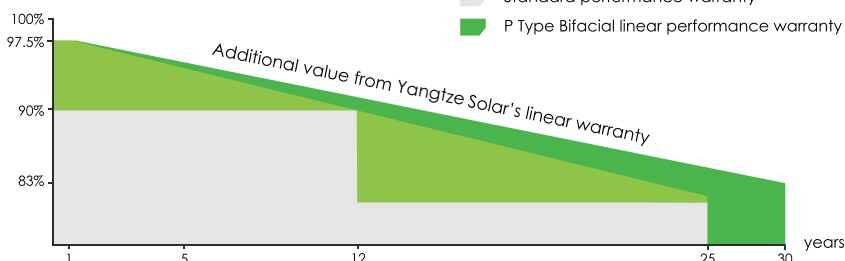
5400 Pa snow load, 2400 Pa wind load

## LINEAR PERFORMANCE WARRANTY

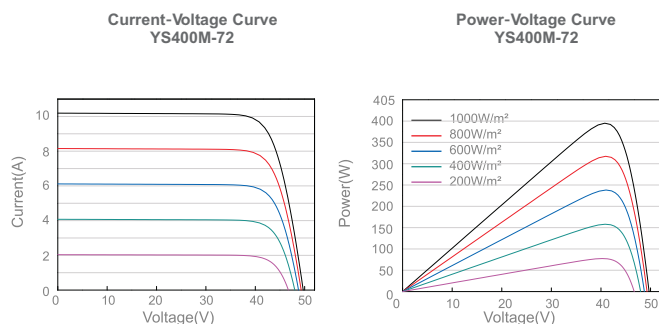
12 Year Product Warranty • 30 Year Linear Power Warranty  
0.5% Annual Degradation Over 30 years



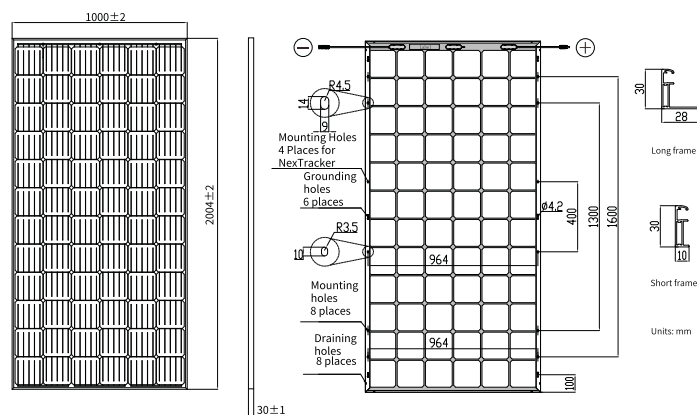
Guaranteed Power Performance



## Electrical Performance & Temperature Dependence



## Engineering Drawings



## Mechanical Characteristics

Cell Type	Mono
No. of cells	72(6x12)
Dimensions	2004±2mm×1000±2mm×30±1mm
Weight	25.0kg±3%
Front Glass	2.0mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	Portrait:300mm(+)/400mm(-) Landscape:1200mm(+)/1200mm(-)

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 390W FRONT)

Backside Power Gain	5%	10%	15%	20%	25%
Rated Max Power(Pmax) [W]	404	424	443	462	481
Open Circuit Voltage(Voc) [V]	49.11	49.11	49.11	49.21	49.21
Max Power Voltage(Vmp) [V]	40.33	40.33	40.33	40.43	40.43
Short Circuit Current(Isc) [A]	10.59	11.10	11.60	12.11	12.61
Max Power Current(Imp) [A]	10.02	10.51	10.98	11.43	11.90

## SPECIFICATIONS

Module Type	YS390M-72	YS400M-72	YS410M-72	YS420M-72
Maximum Power (Pmax)	390W	400W	410W	420W
Maximum Power Voltage (Vmp)	40.55V	41.15V	41.75V	42.34V
Maximum Power Current (Imp)	9.62A	9.72A	9.82A	9.92A
Open-circuit Voltage (Voc)	48.91V	49.50V	50.12V	50.91V
Short-circuit Current (Isc)	10.16A	10.26A	10.37A	10.46A
Module Efficiency STC (%)	19.4%	19.9%	20.4%	20.9%
Operating Temperature(°C)	-40°C~+85°C			
Maximum system voltage	1500VDC (IEC)			
Maximum series fuse rating	20A			
Power tolerance	0~+5W			
Temperature Coefficient of Isc(α_Isc)	+0.060%/°C			
Temperature Coefficient of Voc(β_Voc)	-0.300%/°C			
Temperature Coefficient of Pmax(γ_Pmp)	-0.370%/°C			
Nominal operating cell temperature (NOCT)	45±2°C			

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

\* Power measurement tolerance: ± 3%

The company reserves the final right for explanation on any of the information presented hereby. Yangze Solar.