

Yangtze Solar

96 Cells

440-510 Watt

MONO CRYSTALLINE MODULE

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



KEY FEATURES



Positive tolerance:

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



High Efficiency:

Higher module conversion efficiency (up to 19.90%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



PID RESISTANT:

Eagle modules pass PID test, limited power degradation by PID test is guaranteed for mass production.



Low-light Performance:

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

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

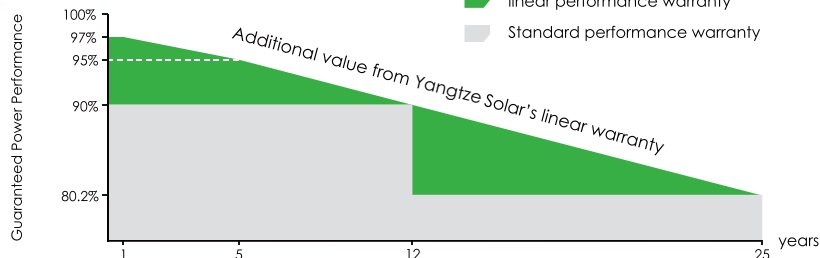


Durability against extreme environmental conditions:

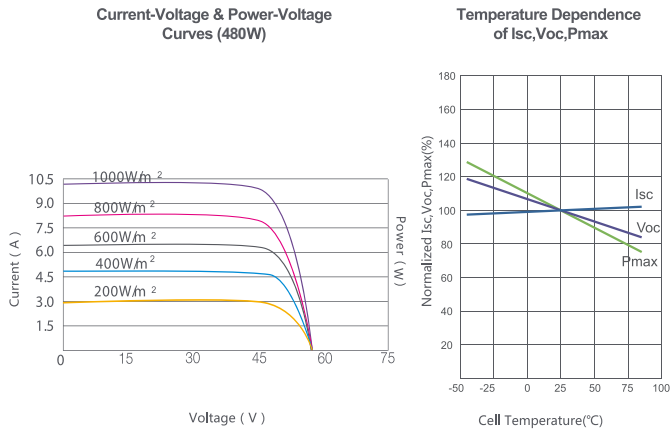
High salt mist and ammonia resistance certified by TUV NORD.

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



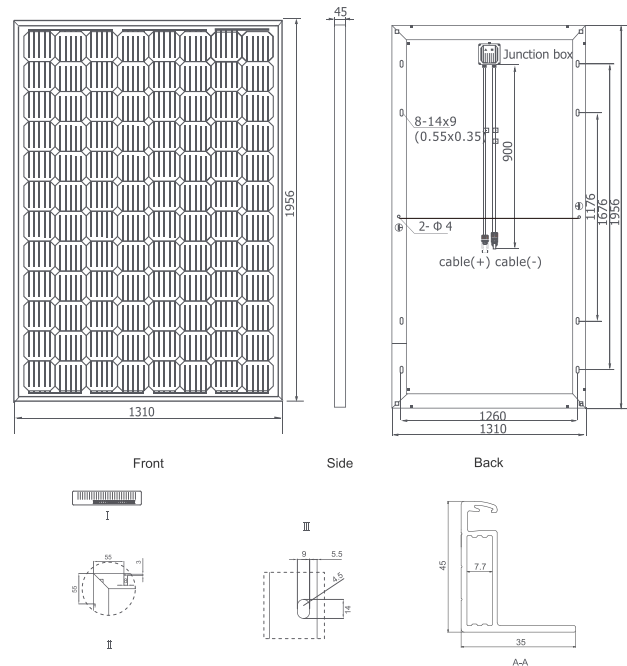
Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono-crystalline PERC 156×156mm (6 inch)
No. of cells	96 (8x12)
Dimensions	1956x1310x45mm (77.01x51.58x1.77 inch)
Weight	26.5 kg (58.4 lbs.)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1×4.0mm ² Length:900mm or Customized Length

Engineering Drawings



Packaging Configuration

(Two pallets =One stack)

20pcs/pallet , 40pcs/stack, 480 pcs/40'HQ Container

SPECIFICATIONS

Module Type	YS440M-96	YS450M-96	YS460M-96	YS470M-96	YS480M-96	YS490M-96	YS500M-96	YS510M-96
Maximum Power (Pmax)	440W	450W	460W	470W	480W	490W	500W	510W
Maximum Power Voltage (Vmp)	47.8V	47.9V	48.0V	48.1V	48.2V	48.3V	48.4V	48.5V
Maximum Power Current (Imp)	9.21A	9.40A	9.59A	9.77A	9.96A	10.15A	10.33A	10.51A
Open-circuit Voltage (Voc)	58.1V	58.3V	58.5V	58.7V	58.9V	59.1V	59.3V	59.5V
Short-circuit Current (Isc)	9.40A	9.60A	9.79A	9.98A	10.17A	10.36A	10.54A	10.72A
Module Efficiency STC (%)	17.17%	17.56%	17.95%	18.34%	18.73%	19.12%	19.51%	19.90%
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000VDC or 1500VDC							
Maximum series fuse rating	20A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.39%/°C							
Temperature coefficients of Voc	-0.29%/°C							
Temperature coefficients of Isc	0.048%/°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.