



**YIBAI SOLAR**  
BUILD A GREEN WORLD

# SIV SERIES

Small Changes, Big Accomplishments







## 445-460W



### ● SIV SERIES

YIBAI Solar redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. YIBAI Solar panel combined creative technology effectively and extremely improved the module efficiency and power output.

### ● KEY FEATURES

-  Less mismatch to get more power
-  Less power loss by minimizing the shading impact
-  Competitive low light performance
-  3 times EL test to ensure best quality
-  Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI
-  Outstanding reliability proven by PVEL for stringent environment condition:
  - Sand, acid, salt and hail stones
  - 2400 Pa wind load and 5400 Pa snow load
  - Anti-PID

### ● QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

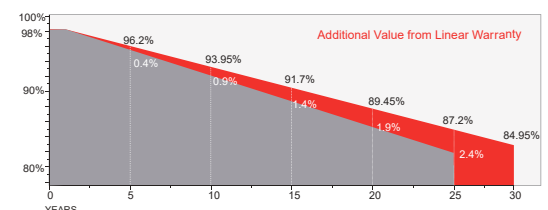
### ● PRODUCT CERTIFICATION



### ● INSURANCE

**PICC**

### ● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

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Specifications subject to technical changes and test, YIBAI Solar reserves the right of final interpretation.

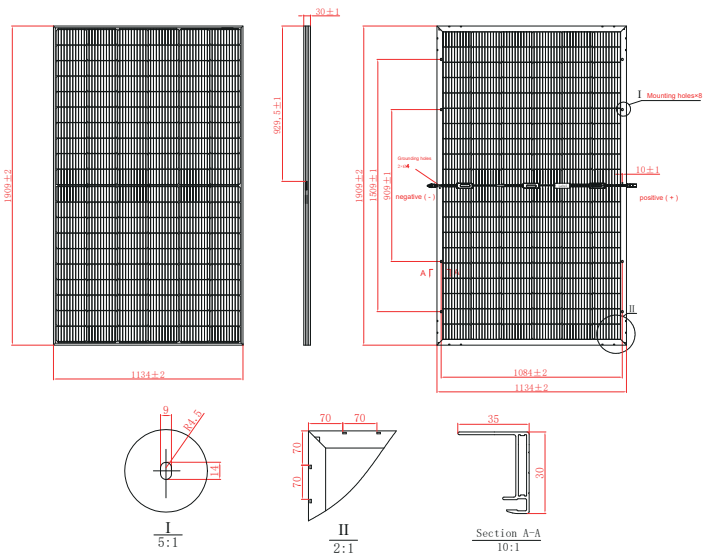
## Mechanical Specifications

External Dimension	1909 x 1134 x 30 mm
Weight	27.3 kg
Solar Cells	PERC Mono crystalline(120 pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length

## Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	5	24
Pieces per Container	180	864

## Technical drawing



## Electrical Characteristics

Module Type	YB-445-BMB-BG			YB-450-BMB-BG			YB-455-BMB-BG			YB-460-BMB-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power $-P_{mp}$ (W)	445	333	312	450	337	315	455	341	319	460	345	322
Open Circuit Voltage $-V_{oc}$ (V)	41.22	38.41	41.20	41.32	38.57	41.30	41.42	38.67	41.40	41.52	38.77	41.50
Short Circuit Current $-I_{sc}$ (A)	13.66	11.04	9.63	13.76	11.12	9.70	13.86	11.20	9.77	13.96	11.28	9.84
Maximum Power Voltage $-V_{mp}$ (V)	34.18	31.82	34.22	34.28	31.98	34.29	34.38	32.06	34.42	34.48	32.18	34.49
Maximum Power Current $-I_{mp}$ (A)	13.03	10.48	9.12	13.13	10.56	9.19	13.24	10.64	9.27	13.34	10.73	9.34
Module Efficiency STC- $\eta_m$ (%)	20.56			20.79			21.02			21.25		
Power Tolerance (W)							(0, +4.99)					
Pmax Temperature Coefficient							-0.34 %/°C					
Voc Temperature Coefficient							-0.26 %/°C					
Isc Temperature Coefficient							+0.05 %/°C					

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5  
Power measurement tolerance: +/-3%

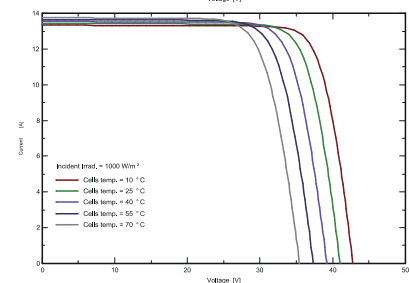
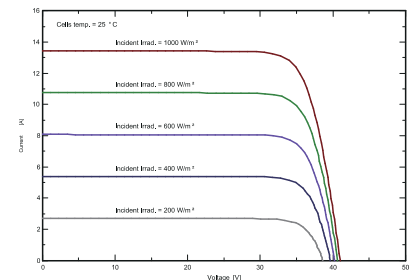
## Rear Side Power Gain(YB-450-BMB-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power $-P_{mp}$ (W)	495	518	540	563	585
Open Circuit Voltage $-V_{oc}$ (V)	41.32	41.32	41.32	41.32	41.32
Short Circuit Current $-I_{sc}$ (A)	15.14	15.82	16.51	17.20	17.89
Maximum Power Voltage $-V_{mp}$ (V)	34.28	34.28	34.28	34.28	34.28
Maximum Power Current $-I_{mp}$ (A)	14.44	15.10	15.76	16.41	17.07

## Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±10%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

## I-V Curve



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