



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

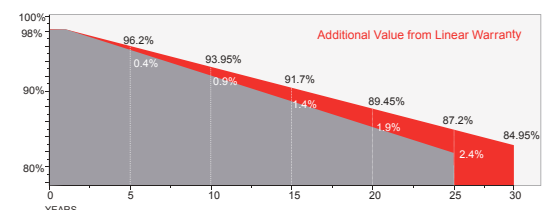
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

Guangdong Yibai Optotech Co.,Ltd

Tel: (86) 0750 376 6180

Web: www.yboptotech.com

Email: info@yboptotech.com

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

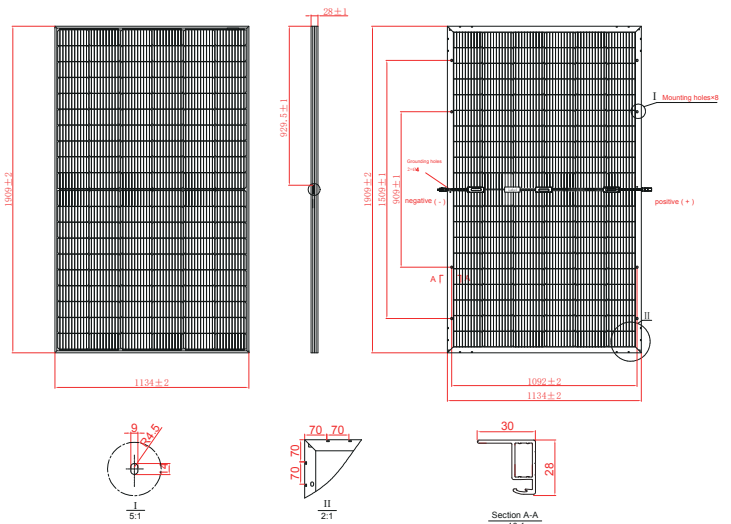
Mechanical Specifications

| | |
|--------------------|---|
| External Dimension | 1909 x 1134 x 28 mm |
| Weight | 22.8 kg |
| Solar Cells | PERC Mono crystalline(120 pcs) |
| Front / Back Glass | 1.6mm AR coating semi-tempered glass, low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0mm ² , 250mm(+)/350mm(-) or Customized Length |

Packing Configuration

| | | |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per Pallet | 39 | 39 |
| Pallets per Container | 5 | 24 |
| Pieces per Container | 195 | 936 |

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- η_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/m² 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

