



YIBAI SOLAR
BUILD A GREEN WORLD

SIII SERIES

Multiple upgrades were forged into one







440-455W



● SIII SERIES

YIBAI Solar redefined the high-efficiency module series by integrating 166mm 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

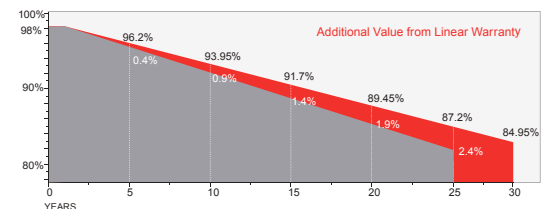
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

Guangdong Yibai Optotech Co.,Ltd

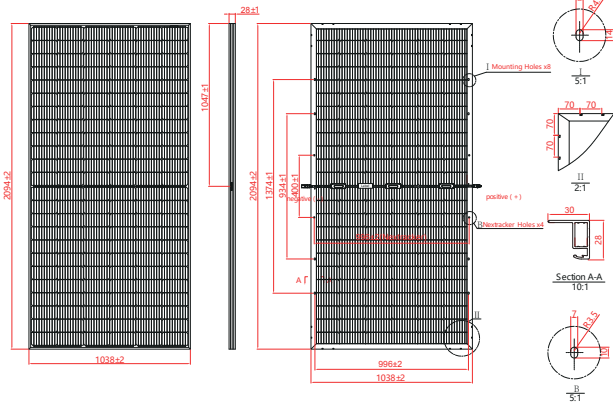
Tel: (86) 0750 376 6180

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

Technical Drawing



- * All Dimensions in mm
- * The above drawing is a graphical representation of the product. For engineering quality drawings please contact info@yboptotech.com

Mechanical Specifications

External Dimension	2094 x 1038 x 28 mm
Weight	23.0 kg
Solar Cells	PERC Mono 166 x 83 mm (144 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	22
Pieces per Container	195	858

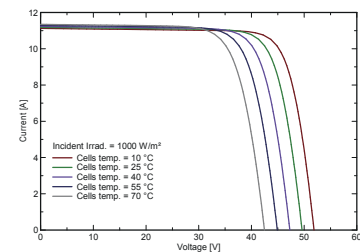
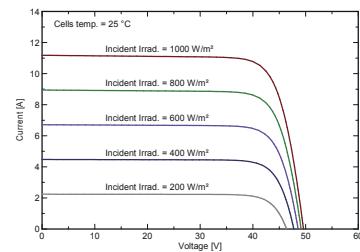
Module Type	YB-440-BMA-BG			YB-445-BMA-BG			YB-450-BMA-BG			YB-455-BMA-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P _{mp} (W)	440	330	308	445	334	312	450	338	315	455	342	319
Open Circuit Voltage -V _{oc} (V)	49.7	46.4	49.4	49.9	46.6	49.6	50.1	46.8	49.8	50.3	47.0	50.0
Short Circuit Current -I _{sc} (A)	11.27	9.11	7.95	11.34	9.17	8.00	11.41	9.22	8.04	11.48	9.28	8.09
Maximum Power Voltage -V _{mp} (V)	41.4	38.3	41.5	41.6	38.5	41.7	41.8	37.7	41.9	42.0	38.9	42.1
Maximum Power Current -I _{mp} (A)	10.63	8.62	7.43	10.70	8.68	7.49	10.77	8.73	7.52	10.84	8.80	7.58
Module Efficiency STC-η _m (%)	20.24			20.47			20.70			20.93		
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-445-BMA-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	490	512	534	556	579
Open Circuit Voltage -V _{oc} (V)	49.9	49.9	49.9	49.9	49.9
Short Circuit Current -I _{sc} (A)	12.47	13.04	13.61	14.18	14.74
Maximum Power Voltage -V _{mp} (V)	41.6	41.6	41.6	41.6	41.6
Maximum Power Current -I _{mp} (A)	11.77	12.31	12.84	13.38	13.91

I-V Curve



Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	20 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±10%
Mechanical Load	Front side 5400 Pa / Rear side 2400 Pa

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