

RAYSTECH

Sable 465-480W

High efficiency bifacial modules

TOPCon 182*199mm

• TOPCON MODULE ADVANTAGE



Multi-Busbar technology



Superior load capacity



High module efficiency



Excellent low-light performance



Lower annual attenuation
Longer warranty



Low BOS and LCOE



Reduce hot spot effect



Higher bifaciality

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

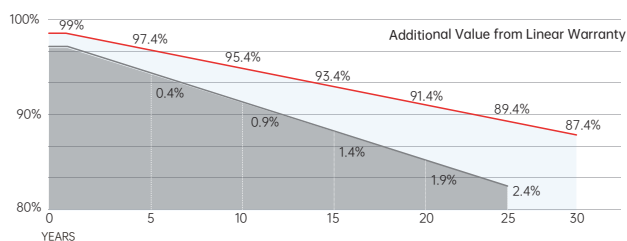
• PRODUCT CERTIFICATION



• INSURANCE

PICC

• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

CHANGZHOU RAYSTECH PV ENERGY CO.,LTD

Add: No. 12 Tongshun Road, Wujin District, Changzhou, China
Tel : +86-519-85260699 Email : info@raystechglobal.com

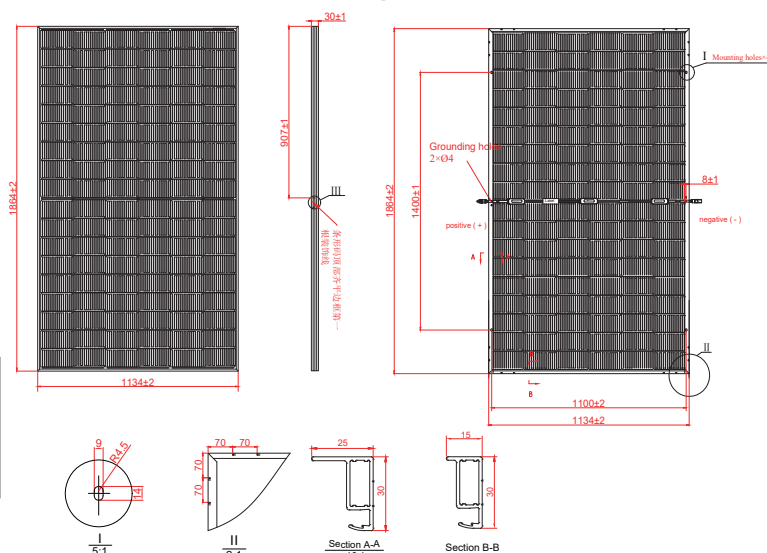
Mechanical Specifications

External Dimension	1864 x 1134 x 30 mm
Weight	27.0 kg
Solar Cells	TOPCon 182 x 99.5mm (108pcs)
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 ² , 250mm(+)/350mm(-) or Customized Length

Packing Configuration

Container	20'HQ	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	24
Pieces per Container	216	864

Technical drawing



Electrical Characteristics

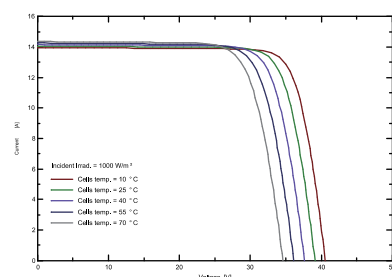
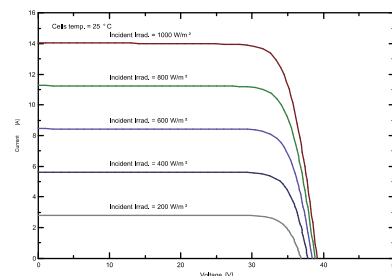
Module Type	RT-465-BTD-BG			RT-470-BTD-BG			RT-475-BTD-BG			RT-480-BTD-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power P_{mp} (W)	465	349	372	470	353	376	475	356	380	480	360	384
Open Circuit Voltage V_{oc} (V)	39.15	37.19	39.13	39.35	37.38	39.33	39.55	37.57	39.53	39.75	37.76	39.73
Short Circuit Current I_{sc} (A)	15.06	12.05	12.05	15.11	12.09	12.09	15.16	12.13	12.13	15.21	12.17	12.17
Maximum Power Voltage V_{mp} (V)	32.70	30.66	32.68	32.90	30.83	32.88	33.10	31.03	33.08	33.30	31.21	33.28
Maximum Power Current I_{mp} (A)	14.22	11.38	11.38	14.29	11.43	11.43	14.35	11.48	11.48	14.42	11.54	11.54
Module Efficiency STC- η (%)	22.00			22.24			22.47			22.71		
Power Tolerance (W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.29 %/°C											
Voc Temperature Coefficient	-0.25 %/°C											
Isc Temperature Coefficient	+0.046 %/°C											

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
Power measurement tolerance: +/-3%

Rear Side Power Gain(RT-480-BTD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power P_{mp} (W)	528	552	576	600	624
Open Circuit Voltage V_{oc} (V)	39.75	39.75	39.75	39.75	39.75
Short Circuit Current I_{sc} (A)	16.73	17.49	18.25	19.01	19.77
Maximum Power Voltage V_{mp} (V)	33.30	33.30	33.30	33.30	33.30
Maximum Power Current I_{mp} (A)	15.86	16.58	17.30	18.03	18.75

I-V Curve



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	80%±5%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa