

RAYSTECH

Sable 575-590w

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

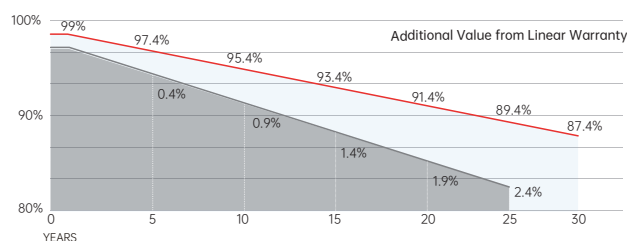
• PRODUCT CERTIFICATION



• INSURANCE

PICC

• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty

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Mechanical Specifications

External Dimension	2278 x 1134 x 30 mm
Weight	32.0 kg
Solar Cells	TOPCon 182 x 99.5mm (132pcs)
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
Connector	Genuine MC4 EVO2/Zerun Z4S-abcde/QC Solar QC4.10-cds
Fire Safety Class	Class A

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	4	20
Pieces per Container	144	720

Electrical Characteristics

Module Type	RT-575-BTC-BG			RT-580-BTC-BG			RT-585-BTC-BG			RT-590-BTC-BG		
	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC
Maximum Power -P _{mp} (W)	575	637	460	580	643	464	585	648	468	590	654	472
Open Circuit Voltage -V _{oc} (V)	48.00	48.08	47.98	48.20	48.28	48.18	48.40	48.48	48.38	48.60	48.68	48.58
Short Circuit Current -I _{sc} (A)	15.15	16.79	12.12	15.20	16.84	12.16	15.25	16.90	12.20	15.30	16.95	12.24
Maximum Power Voltage -V _{mp} (V)	40.26	40.34	40.24	40.46	40.54	40.44	40.66	40.74	40.64	40.86	40.94	40.84
Maximum Power Current -I _{mp} (A)	14.28	15.79	11.42	14.34	15.85	11.47	14.39	15.91	11.51	14.44	15.97	11.55
Module Efficiency STC-η _m (%)	22.26			22.45			22.65			22.84		
Power Measurement Tolerance	± 3%											
Power Sorting Tolerance (W)	-5W~+5W											
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%;Voltage measurement tolerance: +/-3%;Current measurement tolerance: +/-4%
BNPI: front 1000 W/m² rear 135 W/m² Power measurement tolerance: +/-3%;Voltage measurement tolerance: +/-3%;Current measurement tolerance: +/-4%

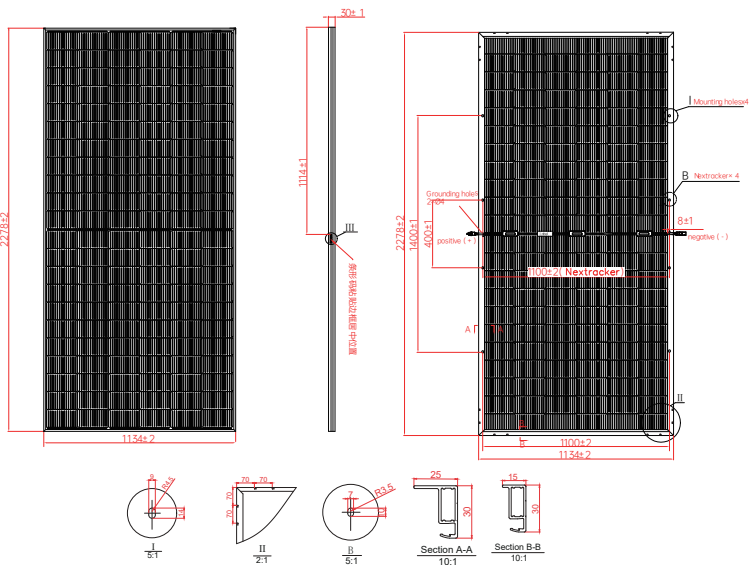
Rear Side Power Gain(RT-580-BTC-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	638	667	696	725	754
Open Circuit Voltage -V _{oc} (V)	48.20	48.20	48.20	48.20	48.20
Short Circuit Current -I _{sc} (A)	16.72	17.48	18.24	19.00	19.76
Maximum Power Voltage -V _{mp} (V)	40.46	40.46	40.46	40.46	40.46
Maximum Power Current -I _{mp} (A)	15.77	16.49	17.21	17.93	18.64

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

Technical drawing



I-V Curve

