



TN 182*182 575-600W

High efficiency bifacial modules

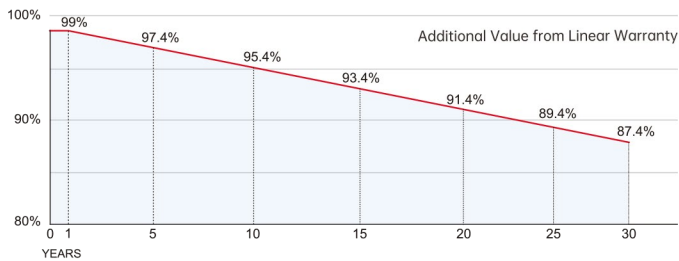
• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



• TOPCON MODULE ADVANTAGE



Multi-Busbar technology



capacity



High module efficiency



Excellent low-light



Lower annual attenuation
Longer warranty



LCOE



Reduce hot spot effect



Higher bifaciality



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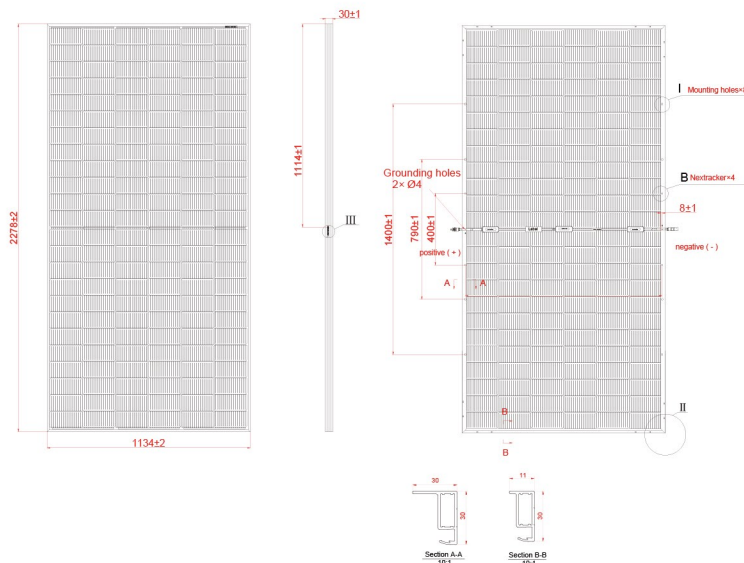
Mechanical Specifications

External Dimension	2278 x 1134 x 30 mm	
Weight	32.0 kg	
Solar Cells	182N-TOPCon (144pcs)	
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'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	4	20
Pieces per Container	144	720

Technical drawing



Electrical Characteristics

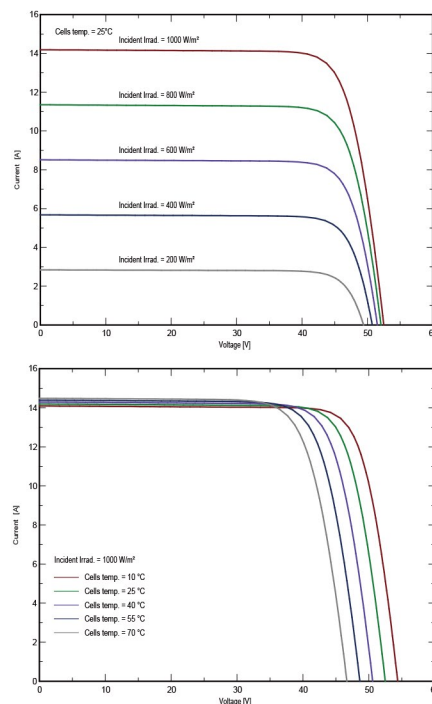
Module Type	575		580		585		590		595		600	
	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI
Maximum Power -P _{mp} (W)	575	630	580	636	585	641	590	647	595	652	600	658
Open Circuit Voltage -V _{oc} (V)	51.90	51.98	52.10	52.18	52.30	52.38	52.50	52.58	52.70	52.78	52.90	52.98
Short Circuit Current -I _{sc} (A)	14.01	15.35	14.07	15.42	14.13	15.49	14.19	15.55	14.25	15.62	14.31	15.68
Maximum Power Voltage -V _{mp} (V)	43.20	43.28	43.40	43.48	43.60	43.68	43.80	43.88	44.00	44.08	44.20	44.28
Maximum Power Current -I _{mp} (A)	13.32	14.56	13.37	14.62	13.43	14.68	13.48	14.74	13.54	14.79	13.59	14.85
Module Efficiency STC-η _m (%)	22.26		22.45		22.65		22.84		23.03		23.23	
Power Tolerance(W)	(0,+4.99)											

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(585W)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	644	673	702	731	761
Open Circuit Voltage -V _{oc} (V)	52.30	52.30	52.30	52.30	52.30
Short Circuit Current -I _{sc} (A)	15.54	16.25	16.96	17.66	18.37
Maximum Power Voltage -V _{mp} (V)	43.60	43.60	43.60	43.60	43.60
Maximum Power Current -I _{mp} (A)	14.77	15.44	16.12	16.79	17.46

I-V Curve



Temperature Ratings

Pmax Temperature Coefficient	-0.29 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°C

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

