

580-595W

High efficiency bifacial modules

TOPCon 182mm

• 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



N Type Topcon Technology



Higher bifaciality

• QUALITY SYSTEM

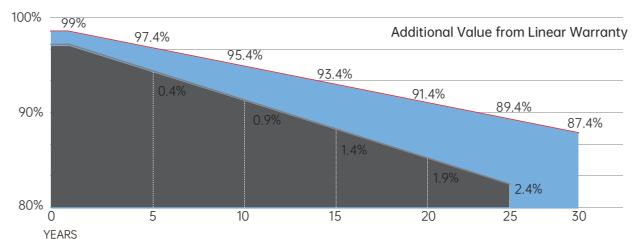
ISO9001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• INSURANCE PICC

• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



Mechanical Specifications

External Dimension	2278 x 1134 x 30 mm
Weight	32.0 kg
Solar Cells	TOPCon 182 x 91mm (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

Electrical Characteristics

Module Type	TP-580-Y155M10			TP-585-Y155M10			TP-590-Y155M10			TP-595-Y155M10		
	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)	580	636	464	585	641	468	590	647	472	595	652	476
Open Circuit Voltage -V _{oc} (V)	52.10	52.18	52.08	52.30	52.38	52.28	52.50	52.58	52.48	52.70	52.78	52.68
Short Circuit Current -I _{sc} (A)	14.07	15.42	11.26	14.13	15.49	11.30	14.19	15.55	11.35	14.25	15.62	11.40
Maximum Power Voltage -V _{mp} (V)	43.40	43.48	43.38	43.60	43.68	43.58	43.80	43.88	43.78	44.00	44.08	43.98
Maximum Power Current -I _{mp} (A)	13.37	14.62	10.70	13.43	14.68	10.75	13.48	14.74	10.79	13.54	14.79	10.82
Module Efficiency STC-η _m (%)	22.45			22.65			22.84			23.03		
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%; 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%

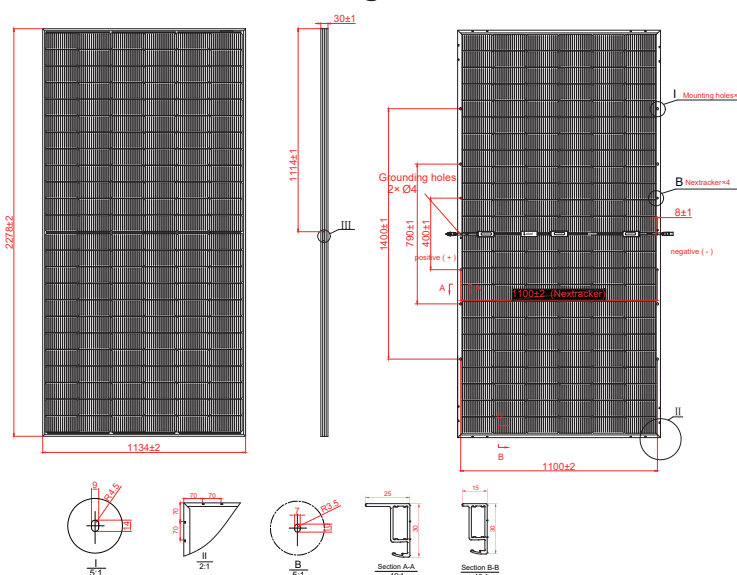
Rear Side Power Gain(TP-585-Y155M10)

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

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

