

正面

背面

Venus Series

182 TOPCON 625-645W

N-type Half-Cell Bifacial Module (78 Model)

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• N-TOPCON MODULE ADVANTAGE



Multi-main gate technology



Superior load capacity



High module conversion efficiency



Excellent low-light performance



Low attenuation long warranty



Low BOS and KWH cost

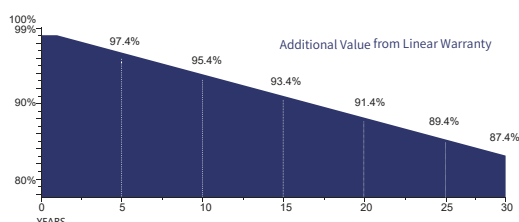


Reduce heat spot effect



Higher bifaciality

• WARRANTY



INSURANCE



Guarantee on product material and workmanship



Linear power output warranty

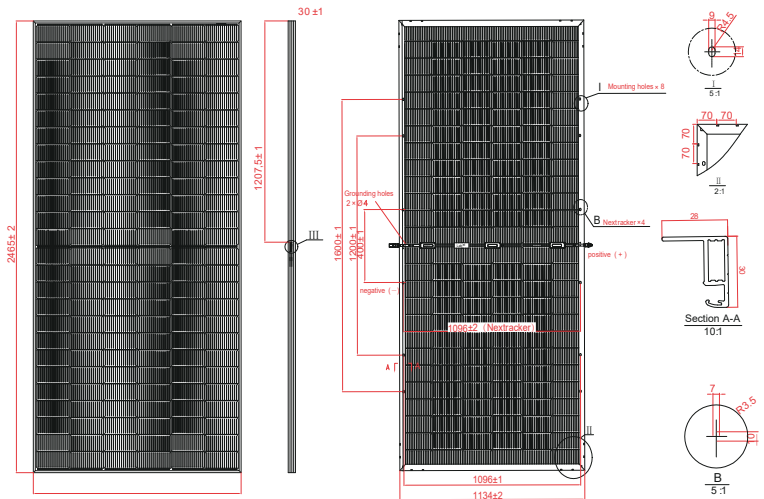
Mechanical Specifications

External Dimension	2465 x 1134 x 30mm
Weight	34.5kg
Solar Cells	N-TOPCon 182 x 91mm (156 pcs)
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	13' GP	17.5' GP	40' HQ
Pieces per Pallet	36	36	36
Pallets per Container	20	23	16
Pieces per Container	720	828	576

Technical drawing



Electrical Characteristics

Module Type	MK-OET-BND78-625		MK-OET-BND78-630		MK-OET-BND78-635		MK-OET-BND78-640		MK-OET-BND78-645	
	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT	Front STC	Front NOCT
Maximum Power -P _{mp} (W)	625	470.0	630	473.8	635	477.5	640	481.3	645	485.0
Open Circuit Voltage -V _{oc} (V)	56.80	53.96	57.00	54.15	57.20	54.34	57.40	54.53	57.60	54.72
Short Circuit Current -I _{sc} (A)	13.74	11.09	13.78	11.13	13.82	11.16	13.86	11.19	14.05	11.34
Maximum Power Voltage -V _{mp} (V)	47.71	44.43	47.88	44.62	48.05	44.76	48.22	44.90	48.36	45.04
Maximum Power Current -I _{mp} (A)	13.10	10.58	13.16	10.62	13.22	10.67	13.28	10.72	13.34	10.77
Module Efficiency STC-η _m (%)	22.4		22.5		22.7		22.9		23.1	
Power Tolerance (W)	(0, +4.99)									
Pmax Temperature Coefficient	-0.28 %/°C									
Voc Temperature Coefficient	-0.23 %/°C									
Isc Temperature Coefficient	+0.045 %/°C									

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

Electrical characteristics with different rear side power gain

Rear Side Power Gain	Maximum Power: Pmax (W)		656.3		661.5		666.8		672.0		677.3	
	Module Efficiency: η [%]		23.5		23.7		23.9		24.0		24.2	
15%	Maximum Power: Pmax (W)		718.8		724.5		730.3		736.0		741.8	
	Module Efficiency: η [%]		25.7		25.9		26.1		26.3		26.5	
25%	Maximum Power: Pmax (W)		781.3		787.5		793.8		800.0		806.3	
	Module Efficiency: η [%]		27.9		28.2		28.4		28.6		28.8	

Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30 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

I-V Curve

