



Venus PRO Series

182-210R TOPCON

635-655W

MBB-type Half-Cell Bifacial Module
(66Model)

• 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

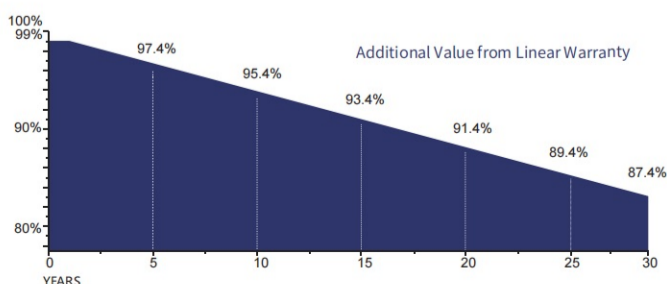
Low attenuation long warranty

Low BOS and KWH cost

Reduce heat spot effect

Higher bifacially

• WARRANTY



INSURANCE



Guarantee on product material and workmanship



Linear power output warranty

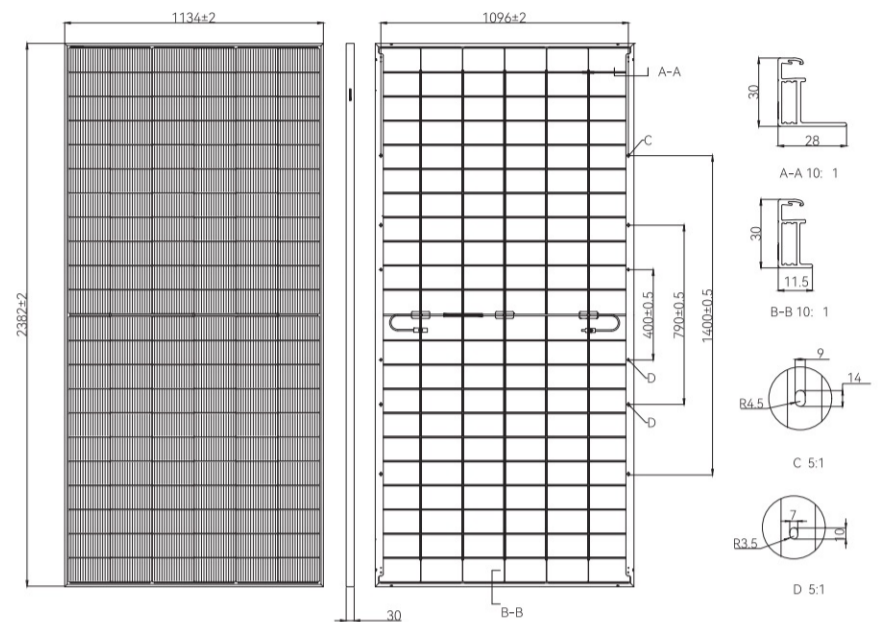
Mechanical Specifications

External Dimension	2382±2×1134±2×30mm
Weight	32.6 kg
Solar Cells	N-TOPCon 182 x105mm (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

Packing Configuration

Container	13' GP	17.5' GP	40' HQ
Pieces per Pallet	36	36	36
Pallets per Container	20	24	20
Pieces per Container	720	864	720

Technical drawing



Electrical Characteristics

Module Type	MK-REC-BDN66-635	MK-REC-BDN66-640	MK-REC-BDN66-645	MK-REC-BDN66-650	MK-REC-BDN66-655
	Front STC	Front STC	Front STC	Front STC	Front STC
Maximum Power -P _{mp} (W)	635	640	645	650	655
Open Circuit Voltage -V _{oc} (V)	49.60	49.75	49.85	50.00	50.15
Short Circuit Current -I _{sc} (A)	16.26	16.33	16.39	16.45	16.52
Maximum Power Voltage -V _{mp} (V)	41.24	41.38	41.51	41.65	41.78
Maximum Power Current -I _{mp} (A)	15.40	15.47	15.54	15.61	15.68
Module Efficiency STC-η _m (%)	23.5	23.7	23.9	24.1	24.2
Power Tolerance (W)	(0, +3%)				
Pmax Temperature Coefficient	-0.28 %/°C				
Voc Temperature Coefficient	-0.24%/°C				
Isc Temperature Coefficient	+0.046%/°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

		651	656	661	666	672
5%	Maximum Power: Pmax (W)	651	656	661	666	672
	Module Efficiency: η [%]	24.1	24.3	24.5	24.7	24.9
15%	Maximum Power: Pmax (W)	713	718	724	730	736
	Module Efficiency: η [%]	26.4	26.6	26.8	27.0	27.2
25%	Maximum Power: Pmax (W)	775	781	787	793	800
	Module Efficiency: η [%]	28.7	28.9	29.1	29.4	29.6

Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35 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

