

Venus Series

182-210R TOPCON 615-640W

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

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001
IEC:61215-2021 / IEC:61730-2023

• 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

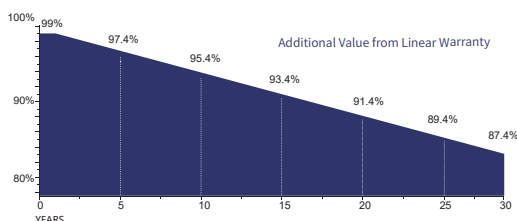


Reduce heat spot effect



Higher bifacially

• WARRANTY



INSURANCE



Guarantee on product material and workmanship



Linear power output warranty

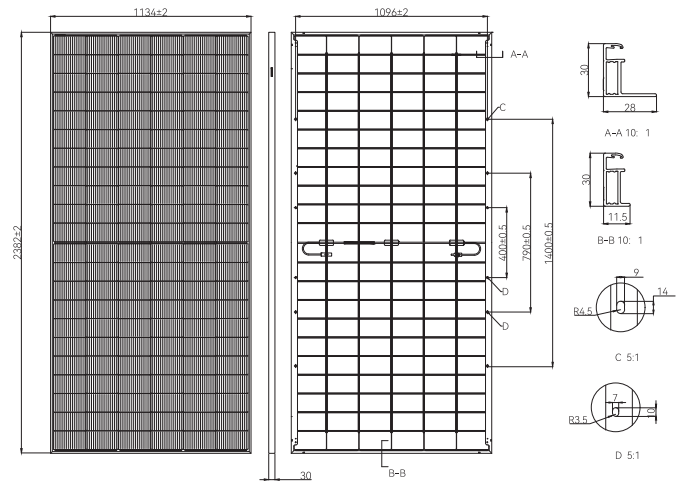
Mechanical Specifications

External Dimension	2382 ±2 × 1134 ±2 × 30mm
Weight	32.6 kg
Solar Cells	N-TOPCon 182 ×105mm (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	40' HQ
Pieces per Pallet	36
Pallets per Container	20
Pieces per Container	720

Technical drawing



Electrical Characteristics	MK-REC-BDN66-615	MK-REC-BDN66-620	MK-REC-BDN66-625	MK-REC-BDN66-630	MK-REC-BDN66-635	MK-REC-BDN66-640
Maximum Power -P	615	620	625	630	635	640
Open Circuit Voltage -V	48.75	48.96	49.17	49.35	49.55	49.72
Short Circuit Current -I	16.06	16.12	16.18	16.25	16.31	16.38
Maximum Power Voltage -V	40.73	40.90	41.07	41.24	41.40	41.56
Maximum Power Current -I	15.10	15.16	15.22	15.28	15.28	15.40
Module Efficiency STC-η	22.8	23.0	23.1	23.3	23.5	23.7
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

		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	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

