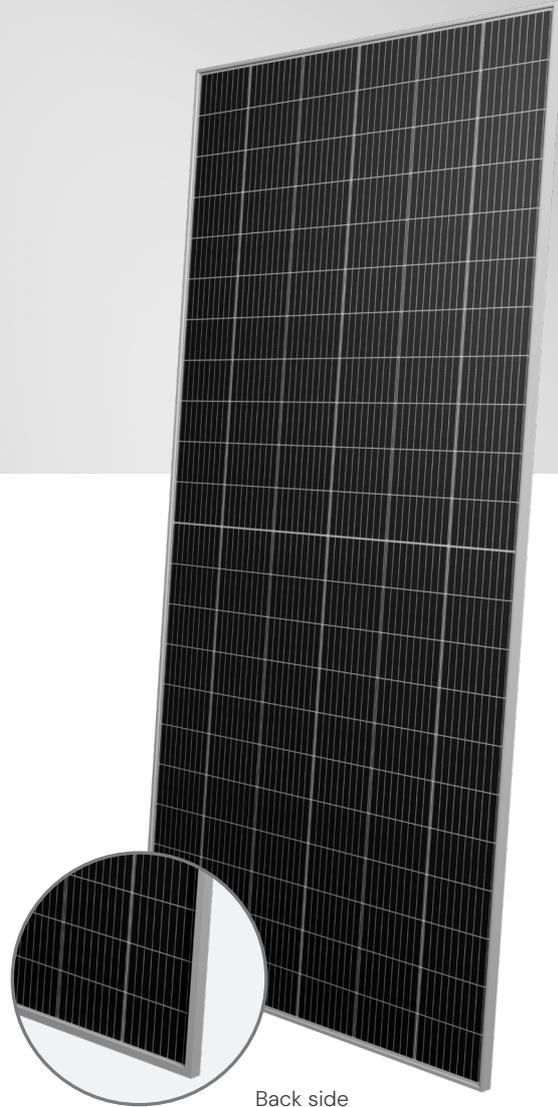


OR10E640MNDB

OR Series – 640 W

132 cells
MONO M10 | N-TYPE



Extra-EU module

Manufactured in our production factory



TOPCon bifacial technology



Anti-reflective double glass

Maximum efficiency and high performance



Compact and sturdy frame

Anchorable also on the short side ⁽⁵⁾



Class of reaction to fire

Class 1 (UNI 9177),
B-s1, d0 (EN 13501-1)
B_{ROOF}(t1) (EN 13501-5)



30 years

Linear power warranty

25 years

Product warranty



QBE insurance

QBE Product Liability Insurance

QBE is a global leader in the insurance sector, offering comprehensive solutions for business risk management. With a worldwide network, it protects clients against a wide range of risks and provides flexible insurance solutions tailored to various industries, including the energy sector.

OR10E640MNDB

Electrical Characteristics (STC) ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	640 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	43,55 V
Current at Pmax (Imp)	14,67 A
Open Circuit Voltage (Voc) ⁽²⁾	51,84 V
Short Circuit Current (Isc) ⁽²⁾	15,48 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	30 A
Module Efficiency	23,69%
Protection class against electric shock	Class II

1. STC: (Standard Test Condition) Irradiance 1000 W/m²; Module Temperature 25 °C; Air Mass 1,5

2. Pmax, Voc, Isc measurement tolerance: ±3%

Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	671 W	704 W	735 W	767 W	799 W
Voltage at Pmax (Vmp)	43,55 V				
Current at Pmax (Imp)	15,40 A	16,14 A	16,87 A	17,60 A	18,34 A
Open Circuit Voltage (Voc)	51,84 V				
Short Circuit Current (Isc)	16,25 A	17,03 A	17,80 A	18,58 A	19,35 A

Mechanical Characteristics

Solar Cells	132 M10 CUT monocrystalline N-TYPE
Solar Cells Size	182,2 x 105 mm / 7,17 x 4,13"
Front Cover	2,0 mm / 0,08" thick, low iron tempered glass
Back Cover	2,0 mm / 0,08" thick, low iron tempered glass
Encapsulant	EVA / POE
Frame	Anodized aluminium alloy, double wall
Frame finishing	Silver
Diodes	3 Bypass diodes serviceable
Junction Box	IP68 rated
Connector	MC4 or compatible connector
Cables Length	1400 mm / 55,12"
Cables Section	4,0 mm ² / 0,006 in ²
Dimensions	2382 x 1134 x 30 mm / 93,78 x 44,65 x 1,18"
Weight	32 kg / 70,55 lbs
Max Load (Test Load) - SF	5400 Pa - 1,5 ⁽⁵⁾

5. Consult the installation manual for the relative mounting configurations

Temperature Characteristics

NMOT ⁽³⁾	43±2 °C
Temperature Coefficient of Pmax	-0,29 %/°C
Temperature Coefficient of Voc	-0,25 %/°C
Temperature Coefficient of Isc	0,046 %/°C
Operating Temperature	-40 °C ~ +85 °C

3. NMOT: Nominal Module Operating Temperature: Irradiance 800 W/m²; Air 20 °C; Wind speed 1 m/s

Packaging ⁽⁴⁾

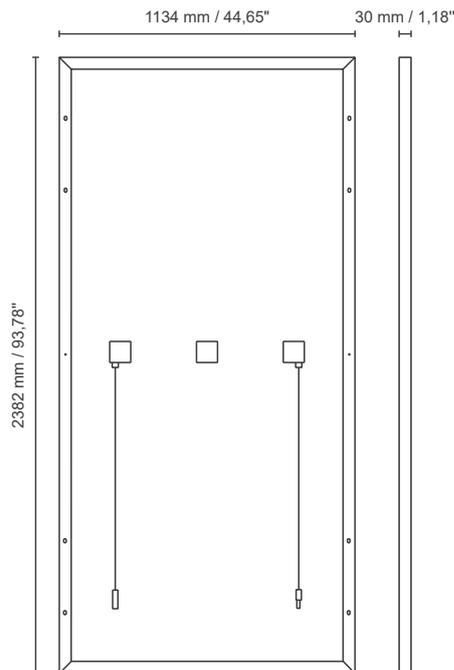
Pallet dimensions	Pieces per pallet - Weight
2395 x 1130 x 1265 mm / 94,29 x 44,49 x 49,80"	37 - 1215 kg / 2678,6 lbs

4. Pallets can be stacked up to two

Certifications

Reaction to fire	Class 1 (UNI 9177), B-s1, d0 (EN 13501-1), B _{ROOF} (t1) (EN 13501-5)
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2
PID free	IEC 61215-2 MQT21
Salt mist	IEC 61701:2020
Ammonia	IEC 62716:2013
Dust and Sand	IEC 60068-2-68:1994

Dimensions



Current/Voltage Characteristics

