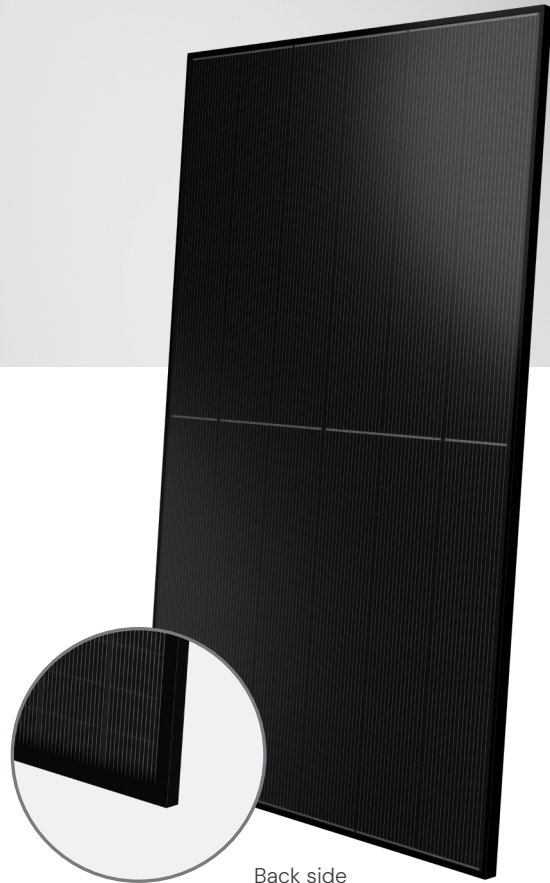


OR10H510MNDB (FB)

OR Series – 510 W

120 cells
MONO M10 HALF | 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.

OR10H510MNDB (FB)

Electrical Characteristics (STC) ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	510 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	37,19 V
Current at Pmax (Imp)	13,71 A
Open Circuit Voltage (Voc) ⁽²⁾	43,64 V
Short Circuit Current (Isc) ⁽²⁾	14,43 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	30 A
Module Efficiency	23,63%
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)	535 W	561 W	586 W	612 W	637 W
Voltage at Pmax (Vmp)	37,19 V	37,19 V	37,19 V	37,19 V	37,19 V
Current at Pmax (Imp)	14,40 A	15,08 A	15,77 A	16,45 A	17,14 A
Open Circuit Voltage (Voc)	43,64 V	43,64 V	43,64 V	43,64 V	43,64 V
Short Circuit Current (Isc)	15,15 A	15,87 A	16,59 A	17,32 A	18,04 A

Mechanical Characteristics

Solar Cells	120 M10 HALF monocrystalline N-TYPE
Solar Cells Size	182 x 91 mm / 7,16 x 3,58"
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	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP68 rated
Connector	MC4 or compatible connector
Cables Length	1300 mm / 51,18"
Cables Section	4,0 mm ² / 0,006 in ²
Dimensions	1903 x 1134 x 30 mm / 74,92 x 44,64 x 1,18"
Weight	25,7 kg / 56,66 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⁾

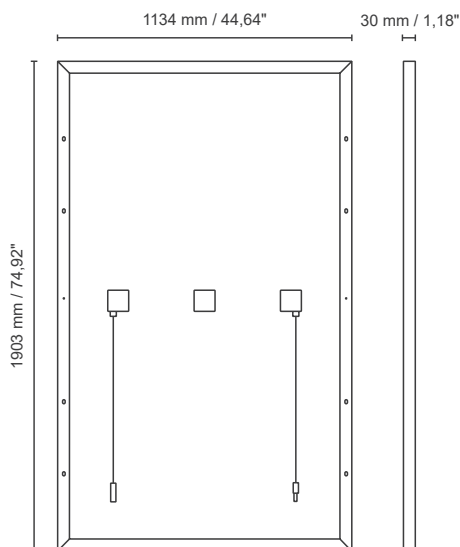
Pallet dimensions	1930 x 1130 x 1265 mm / 76,0 x 44,5 x 49,8"
Pieces per pallet	36 / 37
Weight	954 kg / 2103,21 lbs (36 pieces per pallet) 980 kg / 2160,53 lbs (37 pieces per pallet)

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

Dimensions



Current/Voltage Characteristics

