

OR10H500MNDB (FB)

OR Series – 500 W

120 cells
MONO M10 HALF | N-TYPE



TOPCon bifacial technology



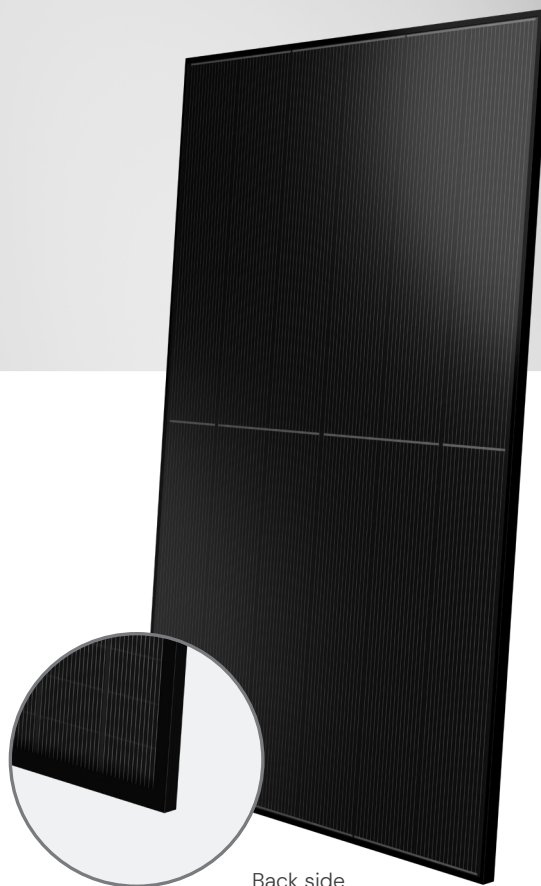
Anti-reflective double glass

Maximum efficiency and high performance



Compact and sturdy frame

Anchorable also on the short side ⁽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.

OR10H500MNDB (FB)

Electrical Characteristics (STC) ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	500 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	36,93 V
Current at Pmax (Imp)	13,54 A
Open Circuit Voltage (Voc) ⁽²⁾	43,32 V
Short Circuit Current (Isc) ⁽²⁾	14,26 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	30 A
Module Efficiency	23,17%
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)	525 W	550 W	575 W	600 W	625 W
Voltage at Pmax (Vmp)	36,93 V	36,93 V	36,93 V	36,93 V	36,93 V
Current at Pmax (Imp)	14,22 A	14,89 A	15,57 A	16,25 A	16,93 A
Open Circuit Voltage (Voc)	43,32 V	43,32 V	43,32 V	43,32 V	43,32 V
Short Circuit Current (Isc)	14,97 A	15,69 A	16,40 A	17,11 A	17,83 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

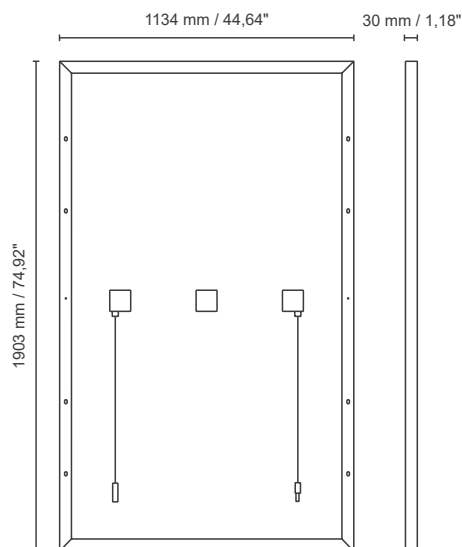
3. NMOT: Nominal Module Operating Temperature: Irradiance 800 W/m²; Air 20 °C; Wind speed 1 m/s

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

Dimensions



Current/Voltage Characteristics

