

Rear side

OR10H500MNDB (BF)

OR SERIES

The 120-cell module ensures high production efficiency combined with an excellent quality/price ratio.

The optimized cell configuration guarantees better electrical distribution within the panel, thus increasing the overall performance of the product. In addition, this product uses **TOPCon double-sided technology**, which allows sunlight to be captured on both sides of the module, further increasing overall efficiency.

Ideal for industrial, residential, and commercial installations.

30 YEAR LINEAR POWER WARRANTY
25 YEAR PRODUCT WARRANTY



TOPCon BIFACIAL TECHNOLOGY



ANTI-REFLECTIVE GLASS



QBE INSURANCE
Product Liability Insurance QBE

Cells



120 CELLS
MONO M10 HALF | N-TYPE

182 x 91 mm / 7.16 x 3.58"

Frame



COMPACT AND STURDY | 30 mm

ANCHORABLE ALSO ON
THE SHORT SIDE ⁽⁶⁾

Electrical Characteristics (STC) ⁽¹⁾

OR10H500MNDB (BF)

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

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 CUT 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 44.65 x 1.18"
Weight	26.7 Kg / 58.86 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 ⁽⁵⁾

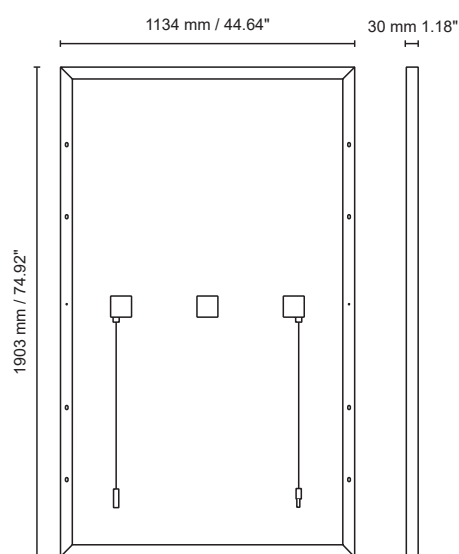
Temperature Characteristics

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

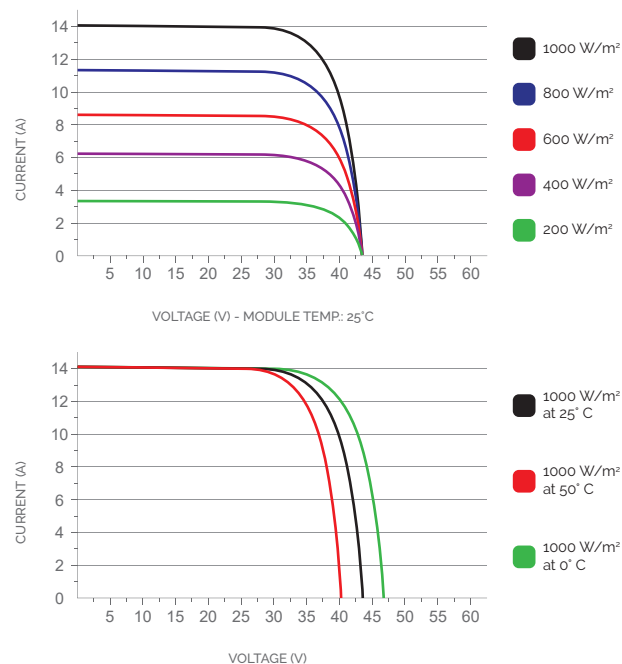
Packaging ⁽⁴⁾

Pallet dimensions	1935 x 1120 x 1260 mm / 76.18 x 44.09 x 49.61"
Pieces per pallet	36
Weight	997 kg / 2198.01 lbs

Dimensions



Current/Voltage Characteristics



1. STC: (Standard Test Condition) Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5
 2. Pmax, Voc, Isc measurement tolerance: ±3%
 3. NMOT: Nominal Module Operating Temperature, Irradiance 800W/m², Air 20°C, Wind speed 1m/s
 4. Pallets can be stacked up to two
 5. Consult the installation manual for the relative mounting configurations