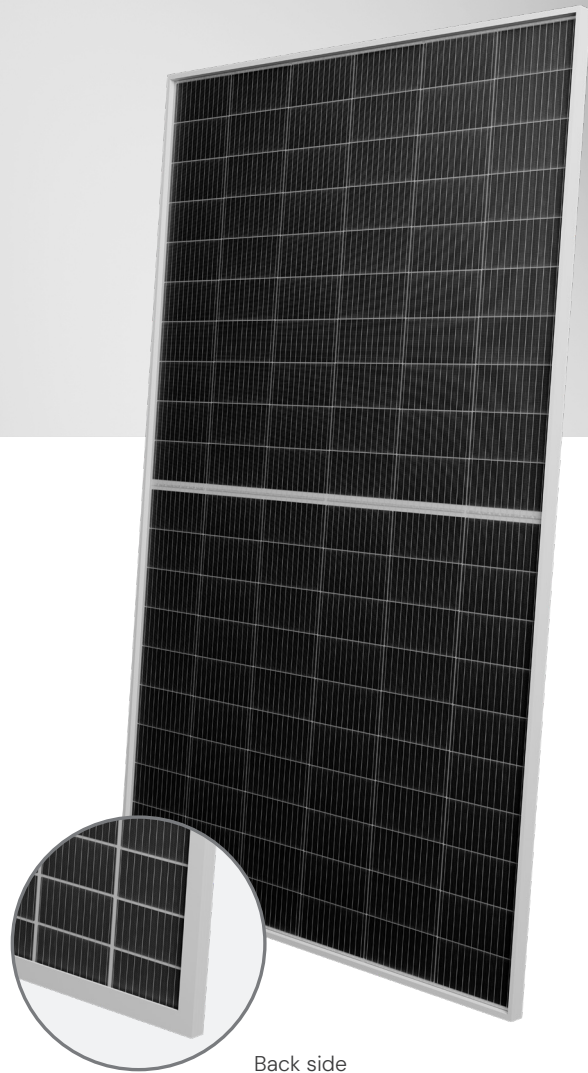


# OR12H635MNDB

OR Series – 635 W

120 cells  
MONO M12 HALF | N-TYPE



Back side



#### 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 <sup>(5)</sup>



#### Class of reaction to fire

Class 1 (UNI 9177),  
B-s1, d0 (EN 13501-1)  
B<sub>ROOF</sub>(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.

## Electrical Characteristics <sup>(1)</sup>

|  |          |
|--|----------|
| Nominal Output (Pmax) <sup>(2)</sup>       | 635 W    |
| Sorting Tolerance                          | 0/+5 W   |
| Voltage at Pmax (Vmp)                      | 36,92 V  |
| Current at Pmax (Imp)                      | 17,2 A   |
| Open Circuit Voltage (Voc) <sup>(2)</sup>  | 44,12 V  |
| Short Circuit Current (Isc) <sup>(2)</sup> | 18,02 A  |
| Maximum System Voltage                     | 1500 V   |
| Maximum Series Fuse Rating                 | 35 A     |
| Module Efficiency                          | 22,44%   |
| Protection class against electric shock    | Class II |

1. STC: (Standard Test Condition) Irradiance 1000 W/m<sup>2</sup>; 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)       | 667 W   | 699 W   | 730 W   | 762 W   | 794 W   |
| Voltage at Pmax (Vmp)       | 36,92 V | 36,92 V | 36,92 V | 36,92 V | 36,92 V |
| Current at Pmax (Imp)       | 18,06 A | 18,92 A | 19,78 A | 20,64 A | 21,50 A |
| Open Circuit Voltage (Voc)  | 44,12 V | 44,12 V | 44,12 V | 44,12 V | 44,12 V |
| Short Circuit Current (Isc) | 18,92 A | 19,82 A | 20,72 A | 21,62 A | 22,53 A |

## Mechanical Characteristics

|                           |   |
|---------------------------|---|
| Solar Cells               | 120 M12 HALF monocrystalline <b>N-TYPE</b>    |
| Solar Cells Size          | 210 x 105 mm / 8,27 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 <sup>2</sup> / 0,006 in <sup>2</sup>   |
| Dimensions                | 2172 x 1303 x 33 mm / 85,51 x 51,3 x 1,30"    |
| Weight                    | 33,5 kg / 73,8 lbs                            |
| Max Load (Test Load) - SF | 5400 Pa - 1,5 <sup>(5)</sup>                  |

5. Consult the installation manual for the relative mounting configurations

## Temperature Characteristics

|                                 |                 |
|---------------------------------|-----------------|
| NMOT <sup>(3)</sup>             | 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/m<sup>2</sup>; Air 20 °C; Wind speed 1 m/s

## Packaging <sup>(4)</sup>

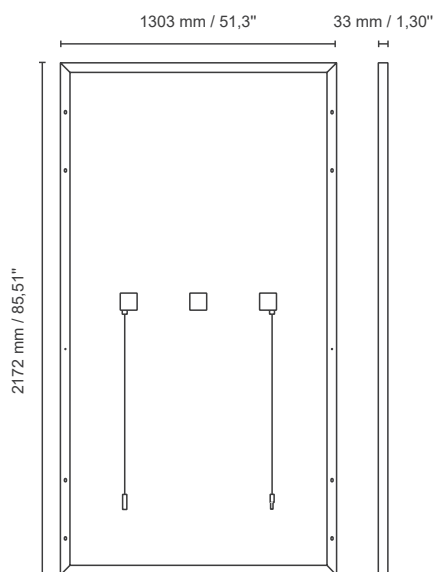
|                   |   |
|-------------------|---|
| Pallet dimensions | 2250 x 1135 x 1403 mm / 88,58 x 51,6 x 55,24" |
| Pieces per pallet | 33  |
| Weight            | 1221 kg / 2692,68 lbs                         |

4. Pallets can be stacked up to two

## Certifications

|                     |   |
|---------------------|---|
| Reaction to Fire    | Class 1 (UNI 9177), B-s1, d0 (EN 13501-1), B <sub>RO3</sub> (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

