

OR12H635MNDB

OR Series – 635 W

120 cells
MONO M12 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⁾



Back side



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.

OR12H635MNDB

Electrical Characteristics ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	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) ⁽²⁾	44,12 V
Short Circuit Current (Isc) ⁽²⁾	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/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)	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 N-TYPE
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 ² / 0,006 in ²
Dimensions	2172 x 1303 x 33 mm / 85,51 x 51,3 x 1,30"
Weight	35,5 kg / 78,26 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

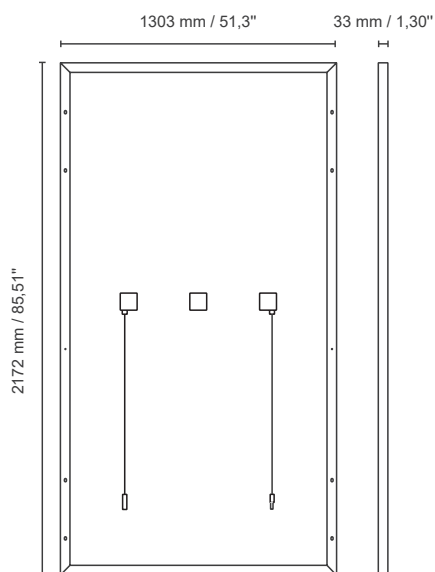
3. NMOT: Nominal Module Operating Temperature: Irradiance 800 W/m²; Air 20 °C; Wind speed 1 m/s

Packaging ⁽⁴⁾

Pallet dimensions	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

Dimensions



Current/Voltage Characteristics

