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**30** YEAR LINEAR POWER WARRANTY  
**25** YEAR PRODUCT WARRANTY



**TOPCon BIFACIAL TECHNOLOGY**



**ANTI-REFLECTIVE GLASS**



**QBE INSURANCE**  
Product Liability Insurance QBE

# OR12H700MNDB

## TOPCon BIFACIAL

 HALF-CELL MODULE

The 132 Half Cut module of the Import Line combines the high production efficiency of the half cell technology with an excellent quality / price ratio.

The half-cell configuration improves the electrical distribution inside the panel to increase the yield 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. For these reasons, the Half Cell Line is suitable not only for industrial installations but also for residential and commercial installations.

### Cells



132 CELLS  
MONO M12 HALF | N-TYPE

210 x 105 mm / 8.27 x 4.13"

### Frame



COMPACT AND STURDY | 30-35 mm

ANCHORABLE ALSO ON  
THE SHORT SIDE <sup>(6)</sup>

# TOPCon BIFACIAL

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

## OR12H700MNDB

Nominal Output (Pmax) <sup>(2)</sup>	700 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	40.61 V
Current at Pmax (Imp)	17.24 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	48.53 V
Short Circuit Current (Isc) <sup>(2)</sup>	18.09 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	35 A
Module Efficiency	22.53 %
Protection class against electric shock	Class II

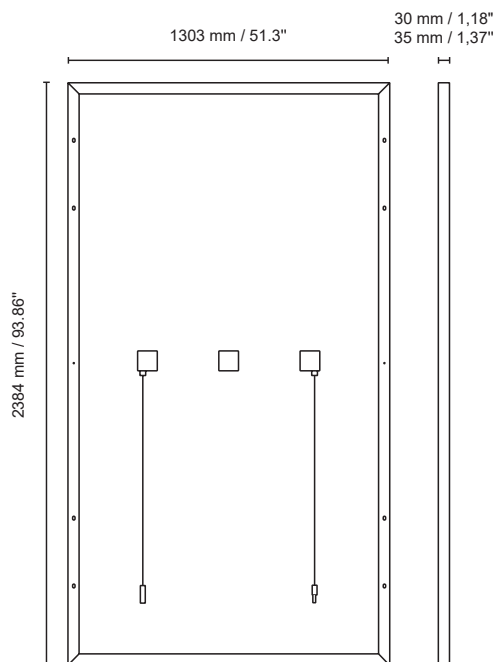
## Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	735 W	770 W	805 W	840 W	875 W
Voltage at Pmax (Vmp)	40.61 V	40.61 V	40.61 V	40.61 V	40.61 V
Current at Pmax (Imp)	18.10 A	18.96 A	19.83 A	20.69 A	21.55 A
Open Circuit Voltage (Voc)	48.53 V	48.53 V	48.53 V	48.53 V	48.53 V
Short Circuit Current (Isc)	18.99 A	19.90 A	20.80 A	21.71 A	22.61 A

## Mechanical Characteristics

Solar Cells	132 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 (Ethylene vinyl acetate)
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	2384 x 1303 x 35/30 mm / 93.86 x 51.3 x 1.37/1.18"
Weight	38.6 Kg / 85.1 lbs 37.7 Kg / 83.1 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 <sup>(4)</sup>

## Dimensions



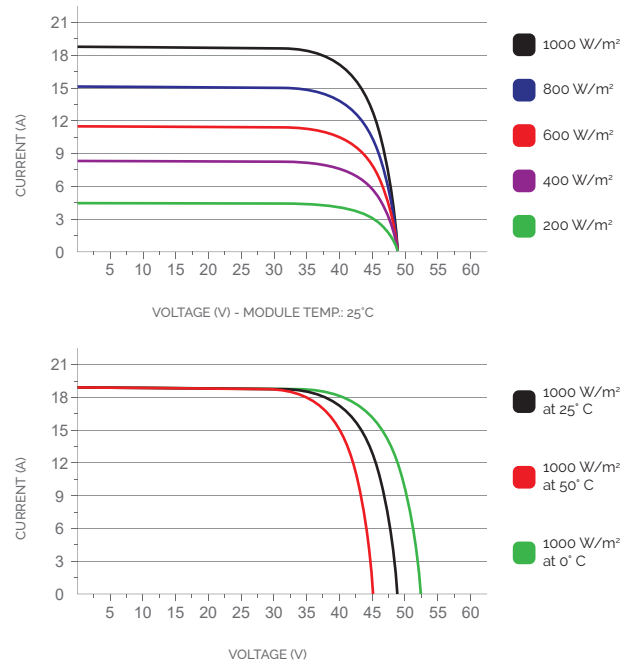
## Temperature Characteristics

NMOT <sup>(3)</sup>	45±2 °C
Temperature Coefficient of Pmax	-0.30 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	0.05 %/°C
Operating Temperature	-40 °C - +85°C

## Packaging

Pallet dimensions	1348 x 1135 x 2524 mm / 53.1 x 44.68 x 99.4"
Pieces per pallet	31 / 36
Weight	1246 kg / 2747 lbs 1406 kg / 3099.7 lbs

## Current/Voltage Characteristics



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