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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

# OR12H705MNDB

## OR SERIES

The 132-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.

### Cells



132 CELLS  
MONO M12 HALF | N-TYPE

210 x 105 mm / 8.27 x 4.13"

### Frame



COMPACT AND STURDY | 35 mm

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

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

## OR12H705MNDB

Nominal Output (Pmax) <sup>(2)</sup>	705 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	40.76 V
Current at Pmax (Imp)	17.3 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	48.68 V
Short Circuit Current (Isc) <sup>(2)</sup>	18.13 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	35 A
Module Efficiency	22.70 %
Protection class against electric shock	Class II

## Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	740 W	776 W	811 W	846 W	881 W
Voltage at Pmax (Vmp)	40.76 V	40.76 V	40.76 V	40.76 V	40.76 V
Current at Pmax (Imp)	18.17 A	19.03 A	19.90 A	20.76 A	21.63 A
Open Circuit Voltage (Voc)	48.68 V	48.68 V	48.68 V	48.68 V	48.68 V
Short Circuit Current (Isc)	19.04 A	19.94 A	20.85 A	21.76 A	22.66 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 / 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	2384 x 1303 x 35 mm / 93.86 x 51.3 x 1.37"
Weight	38.6 Kg / 85.1 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 <sup>(4)</sup>

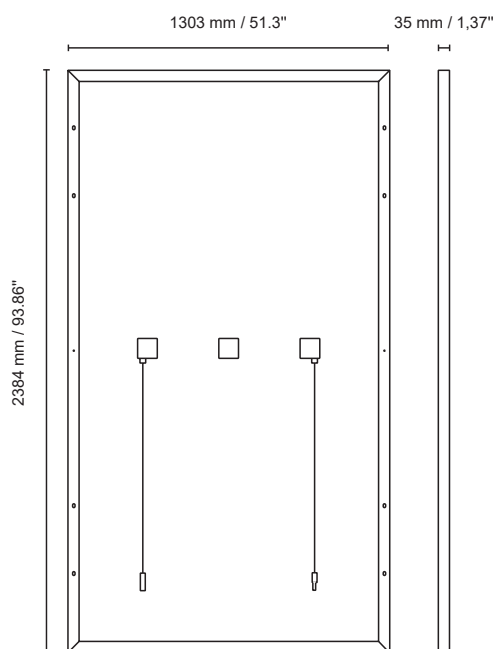
## Temperature Characteristics

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

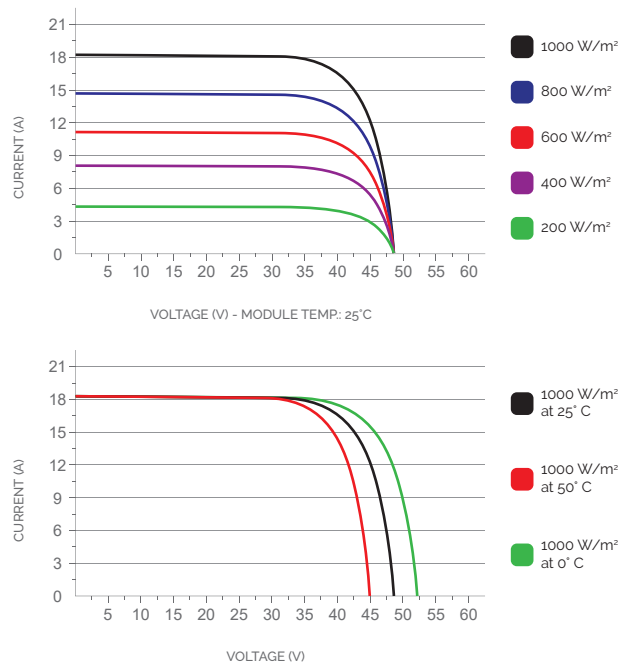
## Packaging

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

## Dimensions



## 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