

Back side

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



**TOPCon BIFACIAL TECHNOLOGY**



**ANTI-REFLECTIVE GLASS**



MODULE FIRE PERFORMANCE: **CLASS 1**



**QBE INSURANCE**  
Product Liability Insurance QBE

# OR10H595MNDB

## OR SERIES

The 144-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



144 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 <sup>(6)</sup>

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

## OR10H595MNDB

Nominal Output (Pmax) <sup>(2)</sup>	595 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	44.48 V
Current at Pmax (Imp)	13.38 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	53.12 V
Short Circuit Current (Isc) <sup>(2)</sup>	14.13 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	30 A
Module Efficiency	23.03%
Protection class against electric shock	Class II

## Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	625 W	655 W	684 W	714 W	744 W
Voltage at Pmax (Vmp)	44.48 V	44.48 V	44.48 V	44.48 V	44.48 V
Current at Pmax (Imp)	14.05 A	14.72 A	15.39 A	16.06 A	16.73 A
Open Circuit Voltage (Voc)	53.12 V	53.12 V	53.12 V	53.12 V	53.12 V
Short Circuit Current (Isc)	14.84 A	15.54 A	16.25 A	16.96 A	17.66 A

## Mechanical Characteristics

Solar Cells	144 M10 HALF 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	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	2278 x 1134 x 30 mm / 89.69 x 44.65 x 1.18"
Weight	31.4 kg / 69.22 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 <sup>(5)</sup>

## 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

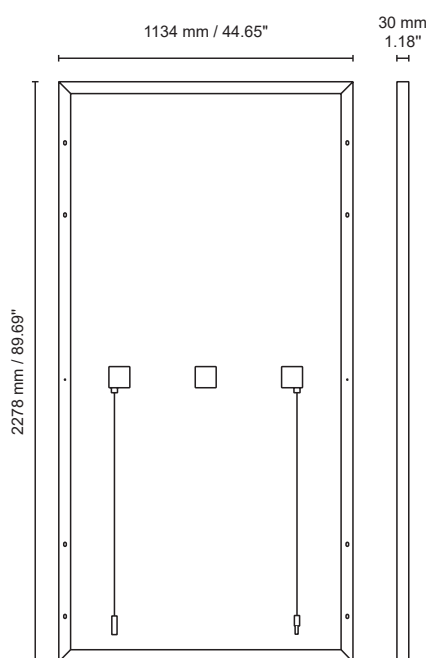
## Packaging <sup>(4)</sup>

Pallet dimensions	2310 x 1120 x 1260 mm / 90.94 x 44.09 x 49.61"
Pieces per pallet	36
Weight	1155 kg / 2546 lbs

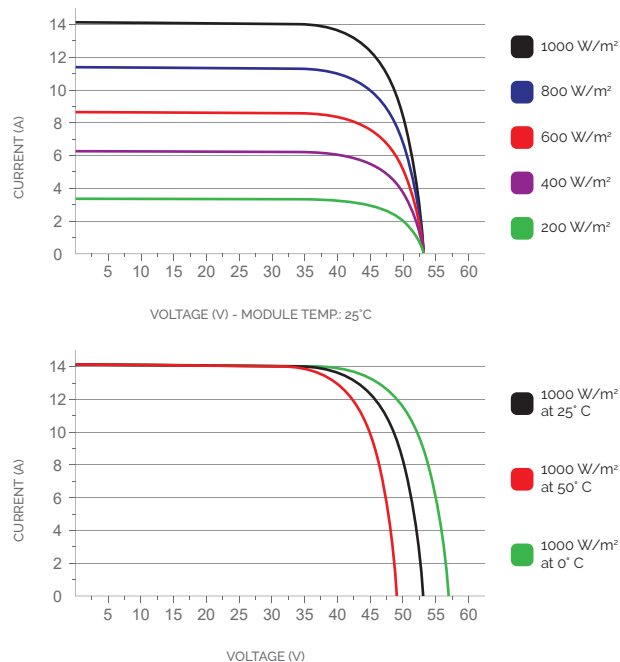
## Certifications

Fire Resistance Rating	Class of reaction to fire 1 (UNI 9177)
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2

## 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. Pallets can be stacked up to two  
 5. Consult the installation manual for the relative mounting configurations