



# OR10H450M

## HALF CELL LINE

 HALF-CELL MODULE

The 120 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. For these reasons, the Half Cell Line is suitable not only for industrial installations but also for residential and commercial installations.

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



**PERC TECHNOLOGY**



**PID FREE**



**MODULE FIRE PERFORMANCE: CLASS 1**



**ANTI-REFLECTIVE GLASS**



**QBE INSURANCE**  
Product Liability Insurance QBE

### Celles



120 CELLS  
MONO 9BB / 10BB M10 HALF | PERC

182 x 91 mm / 7.16 x 3.58"

### Frame



COMPACT AND STURDY | 35 mm

ANCHORABLE ALSO ON THE SHORT SIDE <sup>(5)</sup>

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

## OR10H450M

Nominal Output (Pmax) <sup>(2)</sup>	450 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	34.5 V
Current at Pmax (Imp)	13.05 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	41.4 V
Short Circuit Current (Isc) <sup>(2)</sup>	13.78 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Module Efficiency	20.74%
Protection class against electric shock	Class II

## Mechanical Characteristics

Solar Cells	120 M10 HALF monocrystalline PERC
Solar Cells Size	182 x 91 mm / 7.16 x 3.58"
Front Cover	3.2 mm / 0.13" thick, low iron tempered glass
Back Cover	TPT (Tedlar-PET-Tedlar)
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Frame finishing	Silver
Backsheet finishing	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	1300 mm / 51.18"
Cables Section	4.0 mm <sup>2</sup> / 0.006 in <sup>2</sup>
Dimensions	1915 x 1133 x 35 mm / 75.39 x 44.61 x 1.38"
Weight	24.5 Kg / 54.01 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5" <sup>(3)</sup>

## Temperature Characteristics

NMOT <sup>(3)</sup>	45±2 °C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.042 %/°C
Operating Temperature	-40 °C - +85 °C

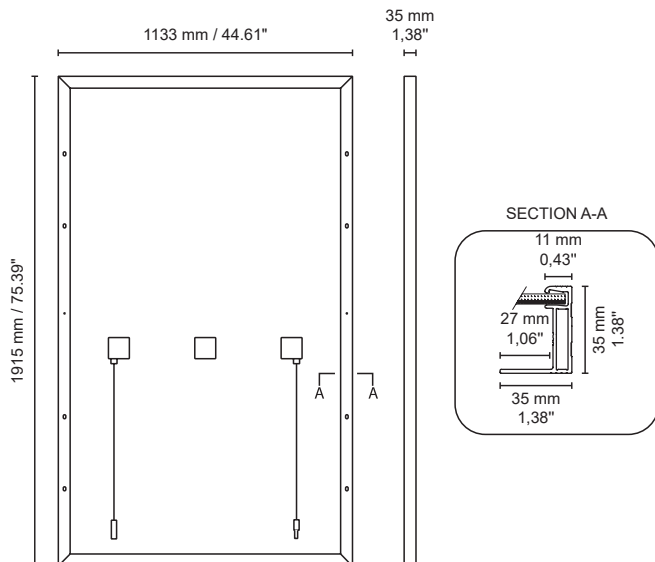
## Packaging <sup>(4)</sup>

Pallet dimensions	1940 x 1120 x 1260 mm / 76.37 x 44.09 x 49.61"
Pieces per pallet	31
Weight	786 kg / 1732.83 lbs

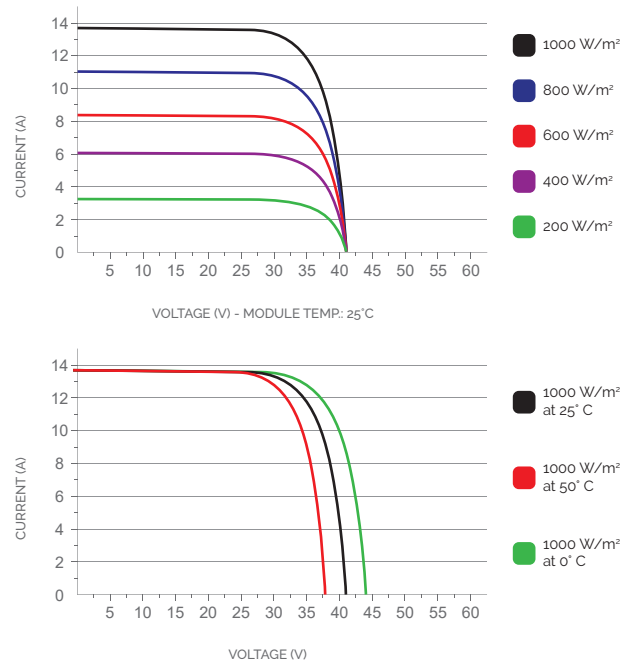
## Certifications

Fire Resistance Rating	Class of reaction to fire 1 (UNI 9177)
PID free	TUV PPP 58042B:2015 - IEC 62804-1:2015
Salt mist	IEC 61701:2011
Ammonia	IEC 62716:2013
Dust and Sand	TUV PPP 59022B:2021 - IEC 60068-2-68:1994
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