



## OR10H440MN (FB)

### OR SERIES

The 108-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.

Ideal for industrial, residential, and commercial installations.

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



**TOPCon MONOFACIAL TECHNOLOGY**



**ANTI-REFLECTIVE GLASS**



**QBE INSURANCE**  
Product Liability Insurance QBE

### Cells



108 CELLS  
MONO 16BB 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>(3)</sup>

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

## OR10H440MN (FB)

Nominal Output (Pmax) <sup>(2)</sup>	440 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	33.48 V
Current at Pmax (Imp)	13.15 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	39.03 V
Short Circuit Current (Isc) <sup>(2)</sup>	13.73 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Module Efficiency	22.53%
Protection class against electric shock	Class II

## Mechanical Characteristics

Solar Cells	108 M10 HALF monocrystalline N-TYPE
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	Black
Backsheet finishing	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP68 rated
Connector	MC4 or compatible connector
Cables Length	1200 mm / 47.24"
Cables Section	4.0 mm <sup>2</sup> / 0.006 in <sup>2</sup>
Dimensions	1722 x 1134 x 30 mm / 67.79 x 44.64 x 1.18"
Weight	22 Kg / 48.5 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 <sup>(3)</sup>

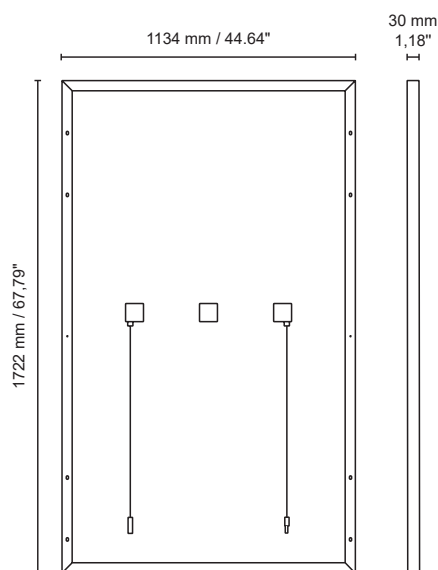
## Temperature Characteristics

NMOT <sup>(3)</sup>	43±2 °C
Temperature Coefficient of Pmax	-0.30 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.04 %/°C
Operating Temperature	-40 °C - +85°C

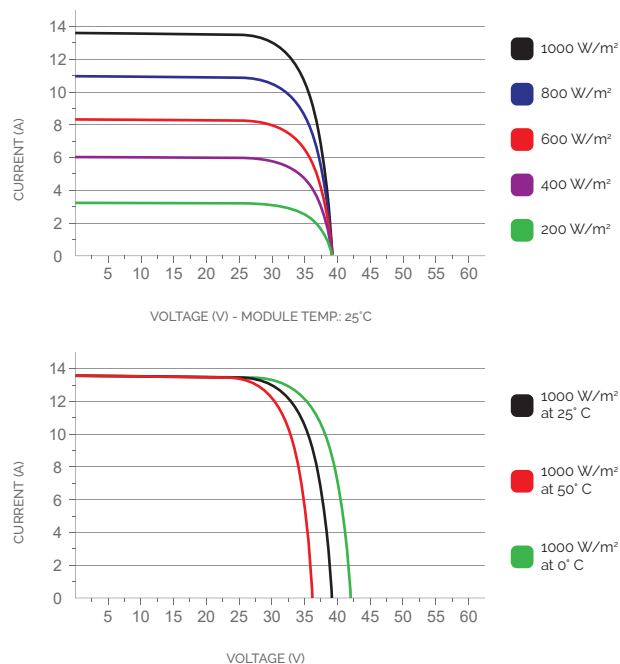
## Packaging <sup>(4)</sup>

Pallet dimensions	1765 x 1120 x 1275 mm / 69.49 x 44.09 x 50.20"
Pieces per pallet	36
Weight	926 kg / 2041.48 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. Pallets can be stacked up to two  
 5. Consult the installation manual for the relative mounting configurations