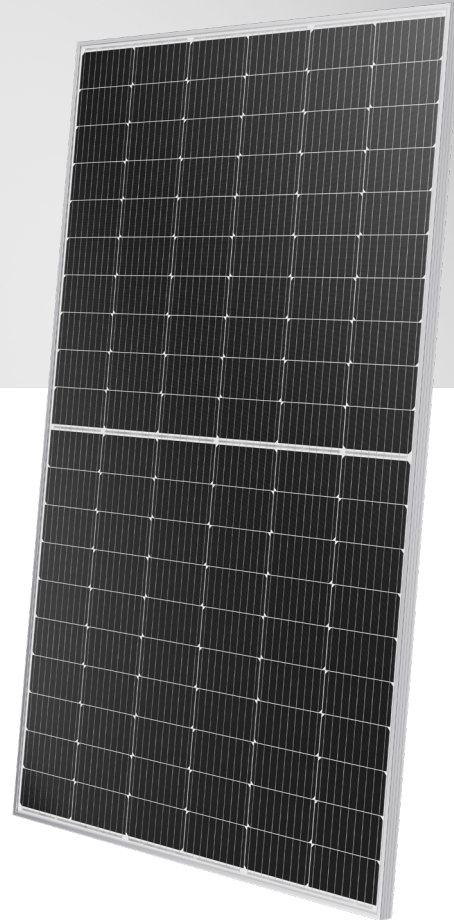


OR10H450M

OR Series – 450 W

120 cells
MONO M10 HALF | PERC



PERC monofacial technology



Anti-reflective glass

Maximum efficiency and high performance



Compact and sturdy frame

Anchorable also on the short side ⁽⁵⁾



PID free

Consistent long-term performance



Module fire performance:

Class 1



30 years

Linear power warranty

25 years

Product warranty



QBE Insurance

QBE Product Liability Insurance

QBE is a global leader in the insurance sector, offering comprehensive solutions for business risk management. With a worldwide network, it protects clients against a wide range of risks and provides flexible insurance solutions tailored to various industries, including the energy sector.

Electrical Characteristics (STC) ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	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) ⁽²⁾	41,4 V
Short Circuit Current (Isc) ⁽²⁾	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

1. STC: (Standard Test Condition) Irradiance 1000 W/m²; Module Temperature 25 °C; Air Mass 1,5
 2. Pmax, Voc, Isc measurement tolerance: ±3%

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 ² / 0,006 in ²
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 ⁽³⁾

5. Consult the installation manual for the relative mounting configurations

Temperature Characteristics

NMOT ⁽³⁾	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

3. NMOT: Nominal Module Operating Temperature: Irradiance 800W/m²; Air 20°C; Wind speed 1m/s

Packaging ⁽⁴⁾

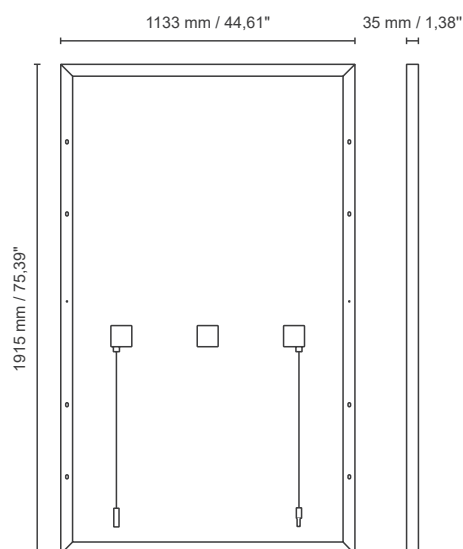
Pallet dimensions	1940 x 1120 x 1260 mm / 76,37 x 44,09 x 49,61"
Pieces per pallet	31
Weight	786 kg / 1732,83 lbs

4. Pallets can be stacked up to two

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
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

