

OR10H595MNDB

OR Series – 595 W

144 cells

MONO M10 HALF | N-TYPE



TOPCon bifacial technology



Anti-reflective double glass

Maximum efficiency and high performance



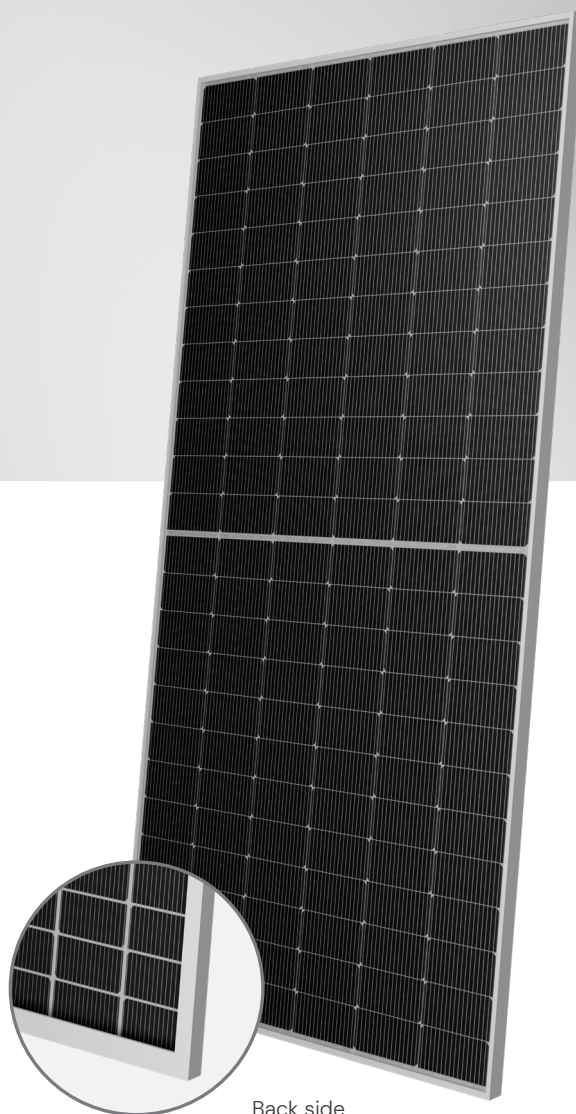
Compact and sturdy frame

Anchorable also on the short side ⁽⁵⁾



Module fire performance:

Class 1



Back side



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 (P _{max}) ⁽²⁾	595 W
Sorting Tolerance	0/+5 W
Voltage at P _{max} (V _{mp})	44,48 V
Current at P _{max} (I _{mp})	13,38 A
Open Circuit Voltage (V _{oc}) ⁽²⁾	53,12 V
Short Circuit Current (I _{sc}) ⁽²⁾	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

1. STC: (Standard Test Condition) Irradiance 1000 W/m²; Module Temperature 25 °C; Air Mass 1,52. P_{max}, V_{oc}, I_{sc} measurement tolerance: ±3%**Electrical Characteristics with rear side power gain**

P _{max} gain	5%	10%	15%	20%	25%
Nominal Output (P _{max})	625 W	655 W	684 W	714 W	744 W
Voltage at P _{max} (V _{mp})	44,48 V	44,48 V	44,48 V	44,48 V	44,48 V
Current at P _{max} (I _{mp})	14,05 A	14,72 A	15,39 A	16,06 A	16,73 A
Open Circuit Voltage (V _{oc})	53,12 V	53,12 V	53,12 V	53,12 V	53,12 V
Short Circuit Current (I _{sc})	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 ² / 0,006 in ²
Dimensions	2278 x 1134 x 30 mm / 89,69 x 44,65 x 1,18"
Weight	30 kg / 66,14 lbs
Max Load (Test Load) – SF	5400 Pa – 1,5 ⁽⁵⁾

5. Consult the installation manual for the relative mounting configurations

Temperature Characteristics

NMOT ⁽³⁾	43±2 °C
Temperature Coefficient of P _{max}	-0,29 %/°C
Temperature Coefficient of V _{oc}	-0,25 %/°C
Temperature Coefficient of I _{sc}	0,046 %/°C
Operating Temperature	-40 °C ~ +85 °C

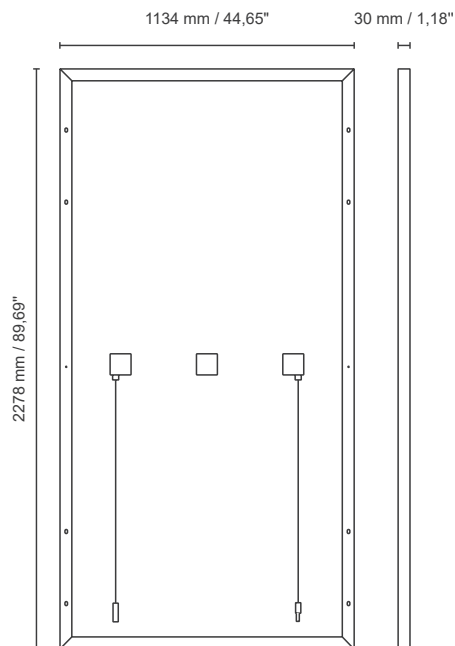
3. NMOT: Nominal Module Operating Temperature: Irradiance 800 W/m²; Air 20 °C; Wind speed 1 m/s**Packaging ⁽⁴⁾**

Pallet dimensions	2300 x 1130 x 1265 mm / 90,6 x 44,5 x 49,8"
Pieces per pallet	36 / 37
Weight	1113 kg / 2453,75 lbs (36 pieces per pallet) 1144 kg / 2522,08 lbs (37 pieces per pallet)

4. Pallets can be stacked up to two

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**