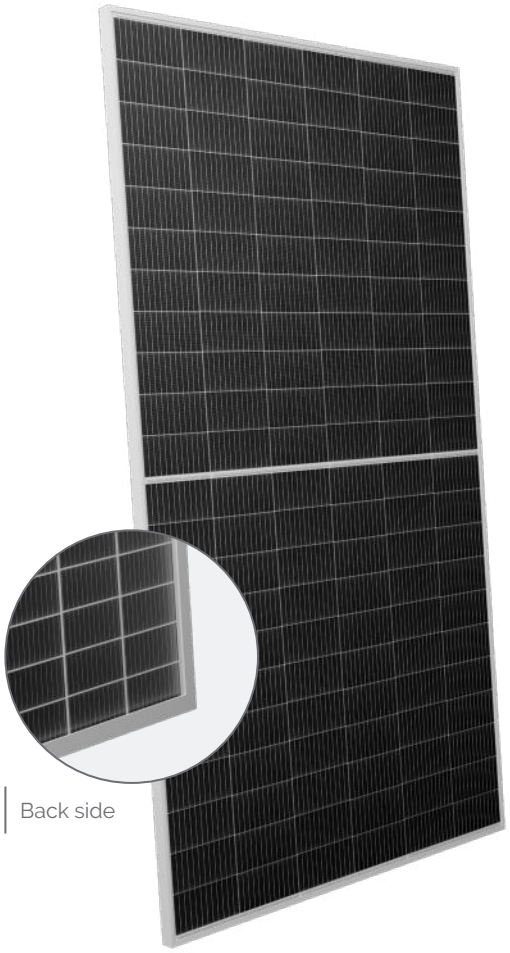
PEIMAR
ITALIAN PHOTOVOLTAIC MODULES



Back side

OR12H705MNDB

OR SERIES

The 132-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.

30 YEAR LINEAR POWER WARRANTY

25 YEAR PRODUCT WARRANTY

TOPCon BIFACIAL TECHNOLOGY

ANTI-REFLECTIVE GLASS

QBE INSURANCE
Product Liability Insurance QBE

Cells

132 CELLS
MONO M12 HALF | N-TYPE

210 x 105 mm / 8.27 x 4.13"

Frame

COMPACT AND STURDY | 35 mm

ANCHORABLE ALSO ON
THE SHORT SIDE (5)

It is important to point out, that all technical specifications, information and figures contained in this datasheet are estimated values. Peimar reserves the right to change the technical specifications, information and figures contained in this document at any time without notice.

Electrical Characteristics (STC) [1]

	OR12H705MNDB
Nominal Output (Pmax) [2]	705 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	40.76 V
Current at Pmax (Imp)	17.3 A
Open Circuit Voltage (Voc) [2]	48.68 V
Short Circuit Current (Isc) [2]	18.13 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	35 A
Module Efficiency	22.70 %
Protection class against electric shock	Class II

Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	740 W	776 W	811 W	846 W	881 W
Voltage at Pmax (Vmp)	40.76 V	40.76 V	40.76 V	40.76 V	40.76 V
Current at Pmax (Imp)	18.17 A	19.03 A	19.90 A	20.76 A	21.63 A
Open Circuit Voltage (Voc)	48.68 V	48.68 V	48.68 V	48.68 V	48.68 V
Short Circuit Current (Isc)	19.04 A	19.94 A	20.85 A	21.76 A	22.66 A

Mechanical Characteristics

Solar Cells	132 M12 HALF monocrystalline **N-TYPE**
Solar Cells Size	210 x 105 mm / 8.27 x 4.13"
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 Lenght	1400 mm / 55.12"
Cables Section	4.0 mm^2 / 0.006 in^2
Dimensions	2384 x 1303 x 35 mm / 93.86 x 51.3 x 1.37"
Weight	38.6 Kg / 85.1 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 [4]

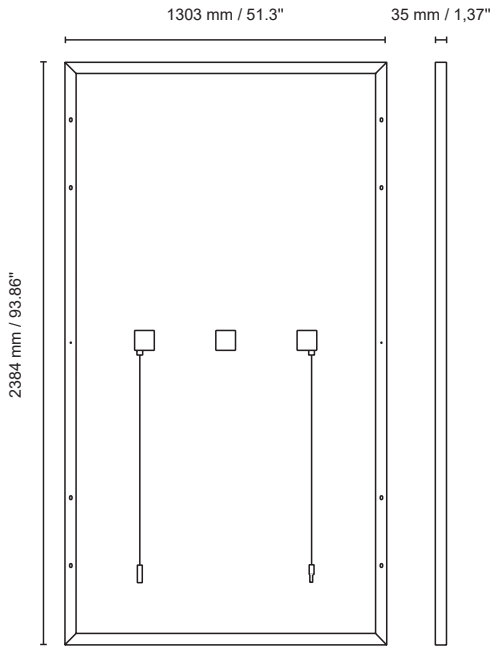
Temperature Characteristics

NMOT [3]	45±2 °C
Temperature Coefficient of Pmax	-0.30 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	0.05 %/°C
Operating Temperature	-40 °C ~ +85°C

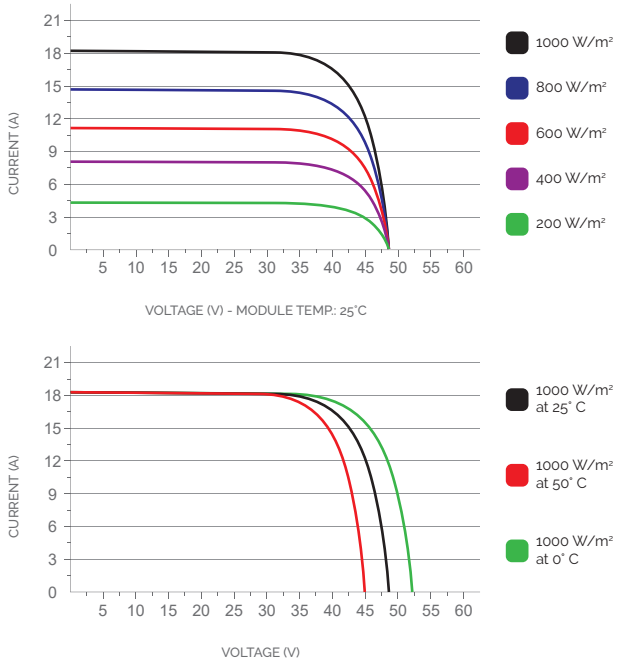
Packaging

Pallet dimensions	1348 x 1135 x 2524 mm/ 53.1 x 44.68 x 99.4"
Pieces per pallet	31
Weight	1246 kg / 2747 lbs

Dimensions



Current/Voltage Characteristics



1. STC: (Standard Test Condition) Irradiance 1000W/m^2, Module Temperature 25°C, Air Mass 1.5
2. Pmax, Voc, Isc measurement tolerance: ±3%
3. NMOT: Nominal Module Operating Temperature: Irradiance 800W/m^2, Air 20°C, Wind speed 1m/s
4. Consult the installation manual for the relative mounting configurations

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