PEIMAR
ITALIAN PHOTOVOLTAIC MODULES

OR10H420M (FB)

HALF CELL LINE

HALF-CELL MODULE

The 108 Half Cut module of the Half Cell 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

MODULE FIRE PERFORMANCE: **CLASS 1**

ANTI-REFLECTIVE GLASS

QBE INSURANCE
Product Liability Insurance QBE

Cells

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

182 x 91 mm / 7.16 x 3.58"

Frame

COMPACT AND STURDY | 30 mm

ANCHORABLE ALSO ON
THE SHORT SIDE (5)

Electrical Characteristics (STC) [1]

	OR10H420M (FB)
Nominal Output (Pmax) [2]	420 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	31,89 V
Current at Pmax (Imp)	13,17 A
Open Circuit Voltage (Voc) [2]	37,87 V
Short Circuit Current (Isc) [2]	13,9 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Module Efficiency	21,51%
Protection class against electric shock	Class II

Mechanical Characteristics

Solar Cells	108 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	Black
Backsheet finishing	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Lenght	1100 mm / 43.30"
Cables Section	4.0 mm^2 / 0.006 in^2
Dimensions	1722 x 1134 x 30 mm / 67.79 x 44.64 x 1.18"
Weight	21,5 Kg / 47,4 lbs
Max Load (Test Load) - SF	5400 Pa - 1.5 [5]

Temperature Characteristics

NMOT [3]	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

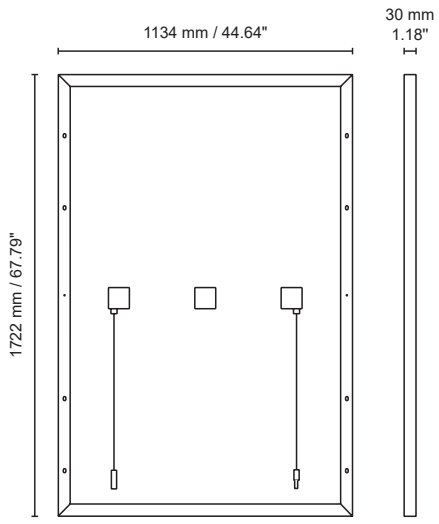
Packaging [4]

Pallet dimensions	1765 x 1120 x 1275 mm / 69.49 x 44.09 x 50.20"
Pieces per pallet	36
Weight	830 kg / 1829,84 lbs

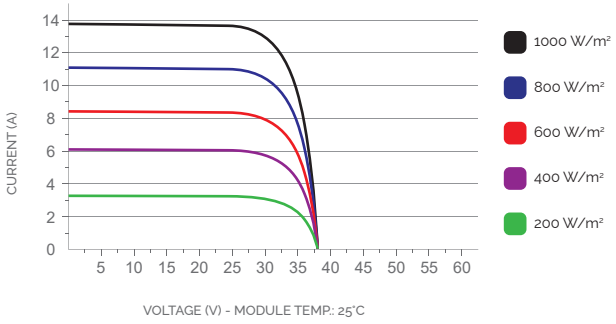
Certifications

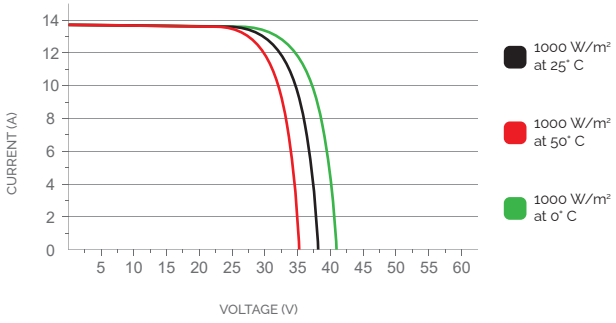
Fire Resistance Rating	Class of reaction to fire 1 (UNI 9177)
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2

Dimensions



Current/Voltage Characteristics





1. STC: (Standard Test Condition) Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

2. Pmax, Voc, Isc measurement tolerance: ±3%

3. NMOT: Nominal Module Operating Temperature: Irradiance 800W/m², 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

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.

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