

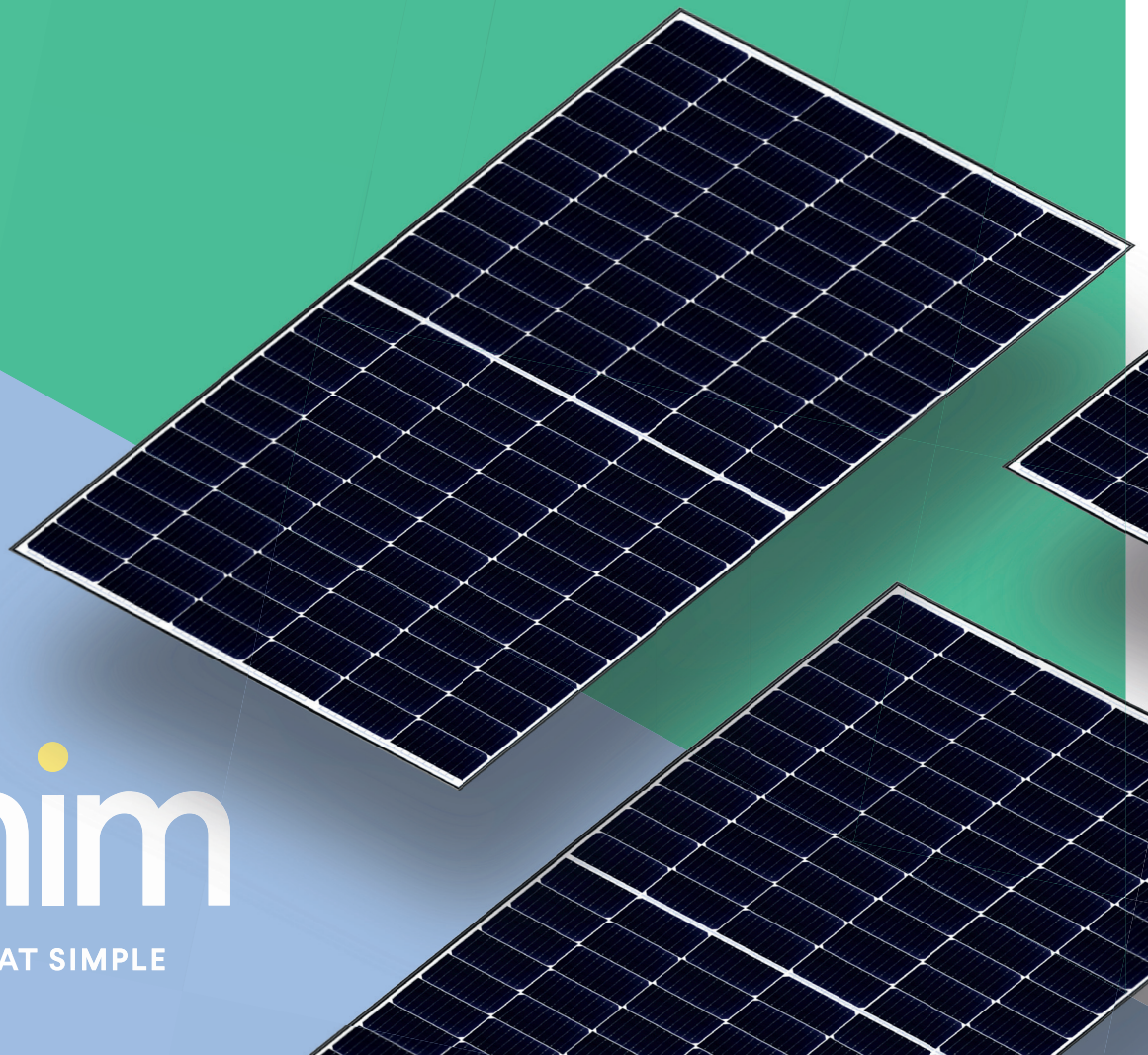
# Meet the B&W family



Denim black white 415 Wp  
English

# denim

SOLAR, IT'S THAT SIMPLE



## BLACK & WHITE PANELEN

Our black & white panels have black frames and white lines. This keeps the temperature of the panels lower and generates higher power. They are the cheapest panels to buy and have the best cost: yield ratio. Just look at your purse glowing with pleasure!

## GARANTIE

Always assured of a good yield thanks to the long product warranty of up to 25 years. After 25 years, we guarantee an output of 84,8%.

\* 25-year product warranty through a Denim partner. 15-year product warranty through non-Denim partners.

[denimsolar.nl/en](http://denimsolar.nl/en)



## ELECTRICAL CHARACTERISTICS

415 BW

		SCT <sup>1</sup>	NOCT <sup>2</sup>
Maximum power (Pmax)	(W)	415	307
MPP voltage (Impp)	(V)	38,20	36,10
MPP current (Impp)	(A)	10,88	8,50
Open clamp voltage (Voc)	(V)	45,80	43,30
Short-circuit current (Isc)	(A)	11,93	9,63
Module efficiency (%)	(%)	20.80	
Power tolerance (%)	(%)		0 / +5
Operating temperature (°C)	(°C)		-40 to +85
Maximum system voltage (V)	(V)		1500
Series fuse rated current	(A)		20
Product reference		Denim U M2 415 BW 132H	

<sup>1</sup>STC (Standard Test Conditions): Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Air mass 1.5

<sup>2</sup>NOCT (Nominal operating cell temperature): Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind

## MECHANICAL PROPERTIES

Cell type	Monocrystalline PERC 166x83 mm
Number of cells	132 cells (6x22)
Dimensions	1924 x 1038 x 35 mm
Weight	22,0 kg
Frame	Anodised aluminium
Front plate	Hardened solar glass (high transmission)
Junction Box	IP68
Cable cross section / length	4mm <sup>2</sup> (IEC) - 1400mm
Connector type	MC4-Evo2
Fire rating	C

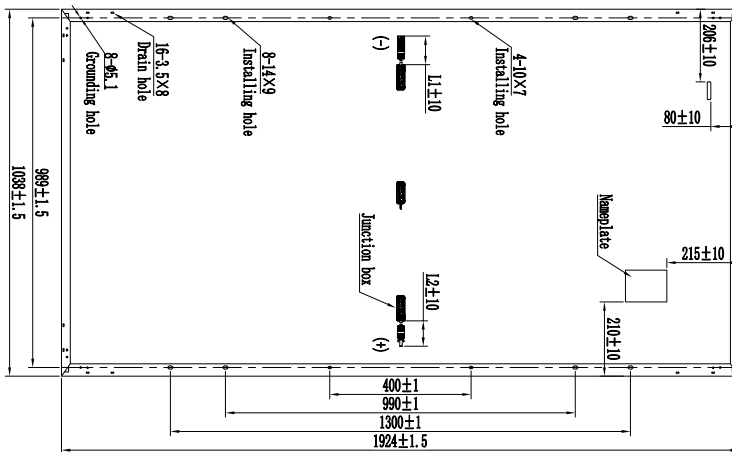
## TEMPERATURE COËF.

Pmax	-0.39%/°C
Voc	-0.29%/°C
Isc	0.049%/°C

## NUMBER OF PACKAGES

Quantity per pallet	31
Quantity per container	744

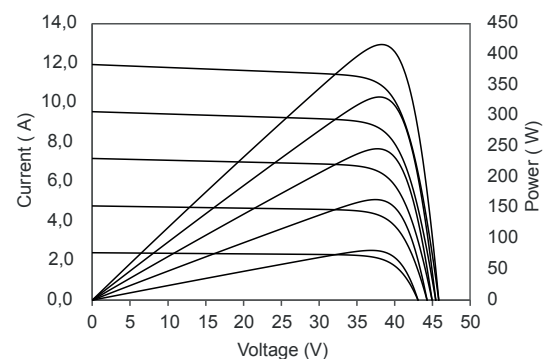
## DIMENSIONS



## MECHANICAL LOAD

Snow load	Up to 5400 Pa
Wind load	Up to 2400 Pa
Hail test	Hailstones: Ø 25mm, speed: 80 km/h

## DENIM IV CURVES



## LINEAR PERFORMANCE WARRANTY

