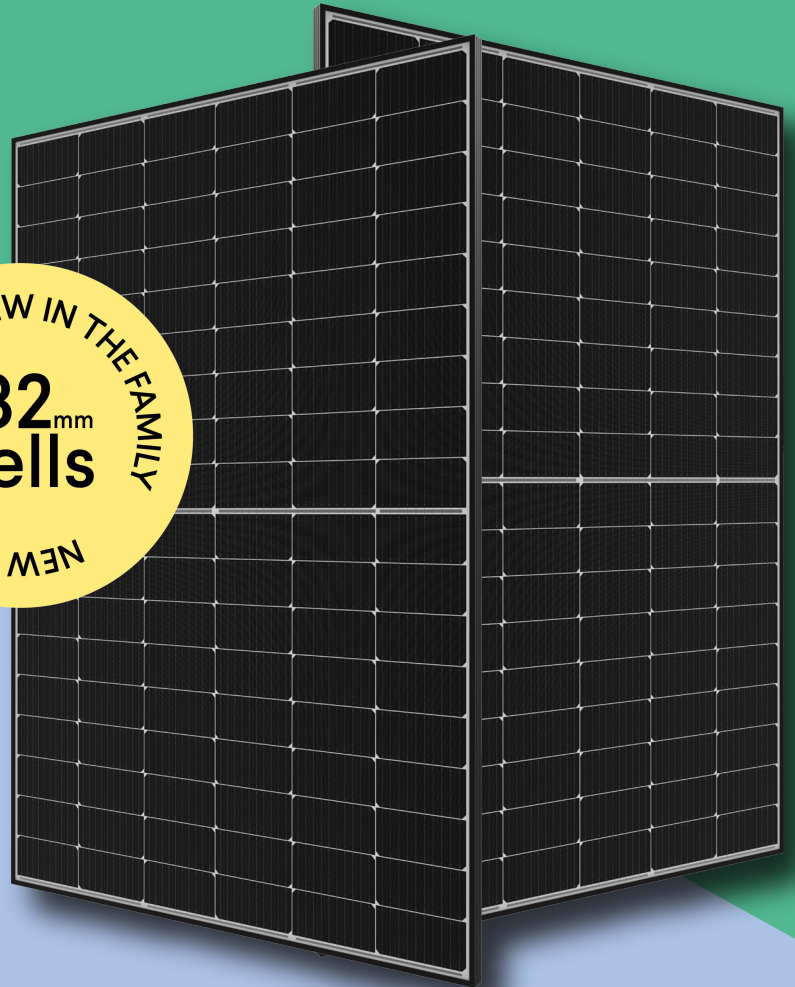


# Meet the B&W family



Denim black white 415 Wp



NEW IN THE FAMILY  
182<sup>mm</sup>  
cells  
NEW IN THE FAMILY

# denim

SOLAR, IT'S THAT SIMPLE

## BLACK & WHITE PANELS

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!

## WARRANTY

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.



## ELECTRICAL CHARACTERISTICS

## 415 BLACK WHITE

		SCT <sup>1</sup>	NOCT <sup>2</sup>
Maximum power (Pmax)	(W)	415	309
MPP voltage (Vmpp)	(V)	31,60	29,95
MPP current (Impp)	(A)	13,14	10,32
Open clamp voltage (Voc)	(V)	37,48	35,52
Short-circuit current (Isc)	(A)	14,06	11,35
Module efficiency	(%)	21,2	
Power tolerance	(W)		0 / +5
Operating temperature	(°C)		-40 to +85
Maximum system voltage	(V)		1500
Series fuse rated current	(A)		25
Product reference		Denim U M3 415 BW 108H	

<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 speed 1m/s

## MECHANICAL PROPERTIES

Cell type	Monocrystalline PERC 182x91 mm
Number of cells	108 cells (6x18)
Dimensions	1724x 1134 x 30 mm
Weight	21,0 kg
Frame	Anodised aluminium
Front plate	Hardened solar glass (high transmission)
Junction Box	IP68
Cable cross section / length	4mm <sup>2</sup> (IEC) - 1100mm
Connector type	MC4-Evo2
Fire rating	C

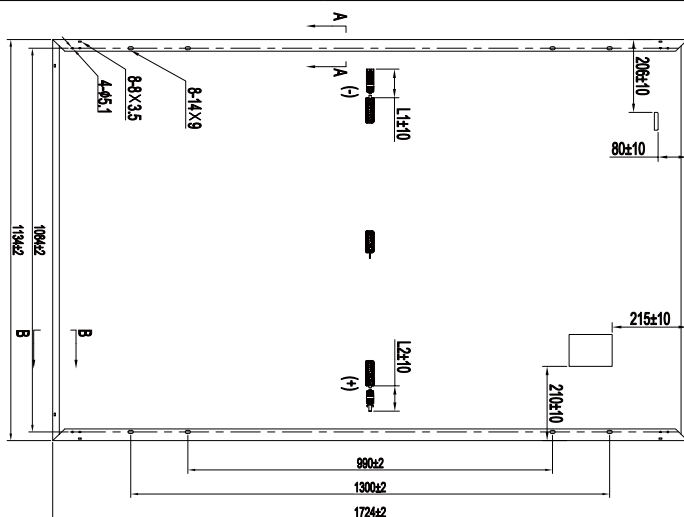
## TEMPERATURE COEFF.

Pmax	-0.33%/°C
Voc	-0.26%/°C
Isc	0.042%/°C

## NUMBER OF PACKAGES

Quantity per pallet	36
Quantity per container	936

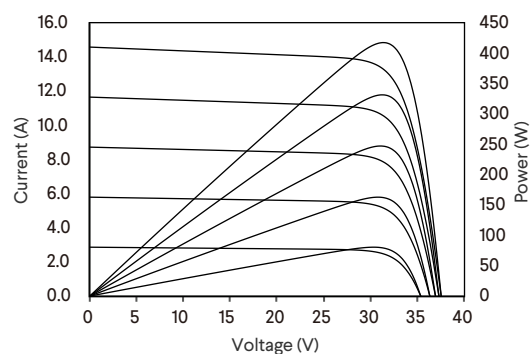
## DIMENSIONS



## 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

