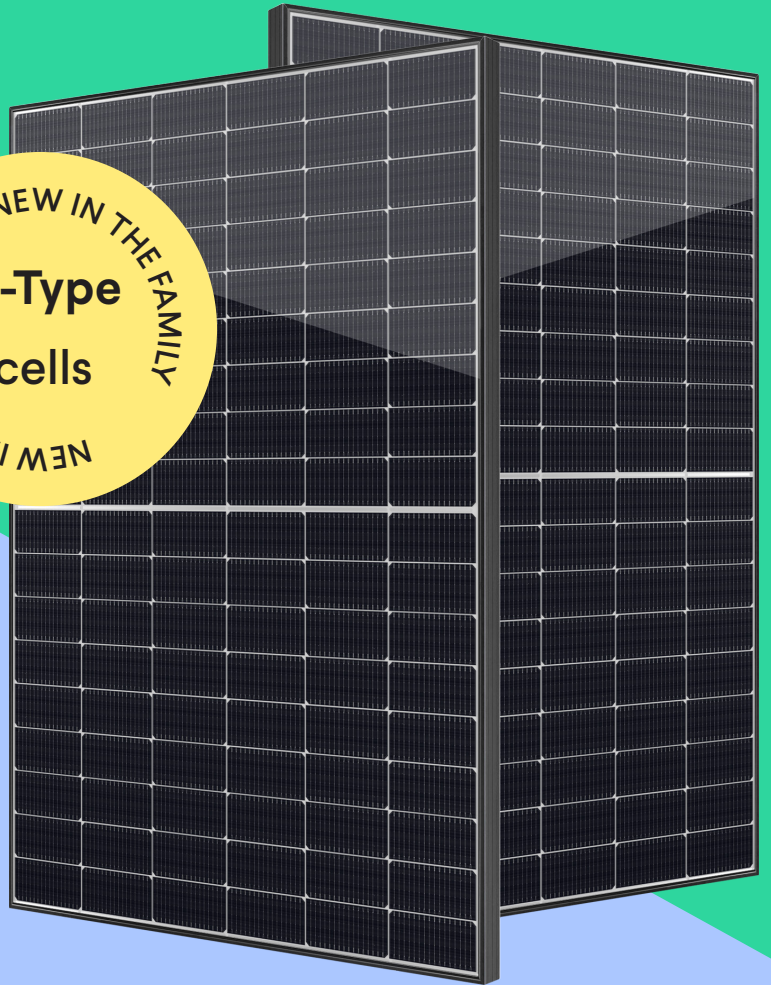
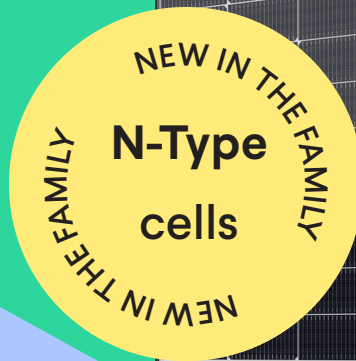


Meet the Black & White family



Denim Black & White 430Wp



denim

SOLAR, IT'S THAT SIMPLE

N-TYPE BLACK & WHITE MODULES

High-efficiency modules with excellent low-light performance and temperature coefficient, high module quality ensures long-term reliability, the good choice for residential and C&I projects.

PRODUCT CERTIFICATIONS



WARRANTY

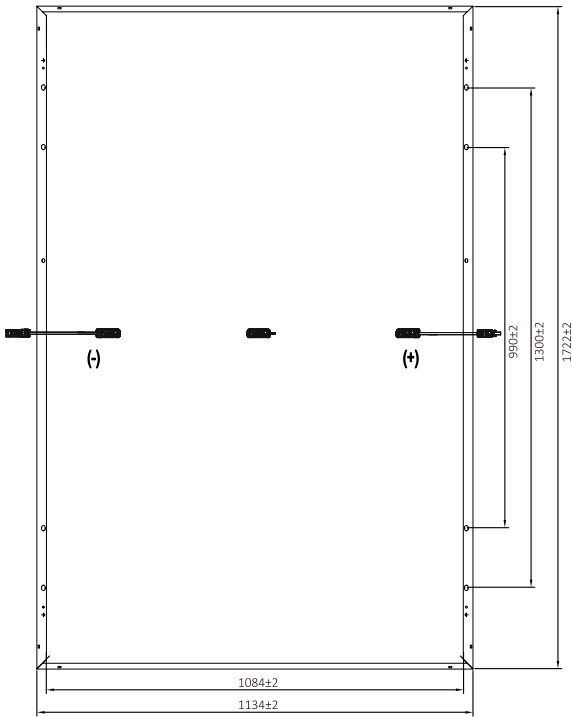
25-year product warranty.

30-year linear power output warranty.

Always assured of a good yield thanks to the long product warranty of up to 25 years. After 30 years, we guarantee an output of 87.4%.

Denim Black & White 430Wp

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS@STC ¹

Maximum Power (P _{max})	(W)	430
MPP Voltage (V _{mpp})	(V)	31.90
MPP Current (I _{mpp})	(A)	13.50
Open Circuit Voltage (V _{oc})	(V)	38.30
Short Circuit Current (I _{sc})	(A)	14.23
Module Efficiency	(%)	22.02
Power Tolerance	(W)	0 / +5
Operating Temperature	(°C)	-40 to +85
Maximum System Voltage	(V)	DC 1500
Maximum Series Fuse Rating	(A)	25
Product reference	Denim U N3 430 BW 108H	

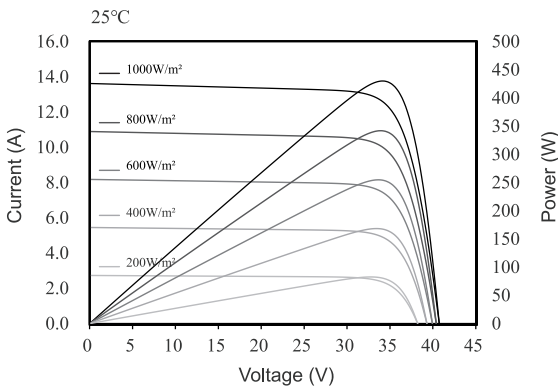
¹ STC (Standard Test Conditions): Irradiance 1000W/m², Cell temperature 25°C, Air mass 1.5

ELECTRICAL CHARACTERISTICS@NOCT ²

Maximum Power (P _{max})	(W)	327
MPP Voltage (V _{mpp})	(V)	30.60
MPP Current (I _{mpp})	(A)	10.69
Open Circuit Voltage (V _{oc})	(V)	36.80
Short Circuit Current (I _{sc})	(A)	11.47

² NOCT (Nominal operating cell temperature): Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s

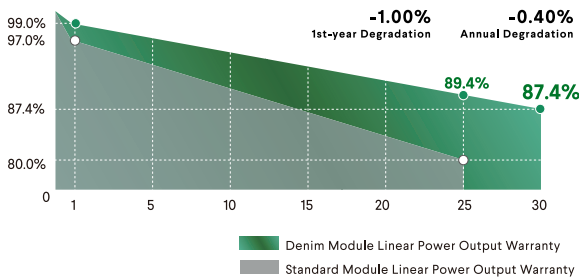
DENIM IV CURVES



MECHANICAL PROPERTIES

Cell type	N-Type TOPCon 182x91 mm
Number of cells	108 cells (6x18)
Dimensions	1722 x 1134 x 30 mm / 1.95 m ²
Weight	21.0 kg
Frame	Anodized aluminium
Glass	Front 3.2mm coated tempered glass
Backsheet	Anti-aging film
Junction Box	IP68, 3 diodes
Cable cross section/length	4mm ² (IEC) - 1100 mm
Connector type	Stäubli - MC4-EVO2
Fire rating	Class C according to UL790
Snow load	Up to 5400 Pa
Wind load	Up to 2400 Pa
Hail test	Hailstones: Ø 25 mm, speed: 23 m/s

SUPERIOR WARRANTY



25 Years
Product Warranty

30 Years
Linear Power Output Warranty

TEMPERATURE RATINGS

NOCT	43±2 °C
Temperature Coefficient of P _{max}	-0.30 %/°C
Temperature Coefficient of V _{oc}	-0.25 %/°C
Temperature Coefficient of I _{sc}	0.046 %/°C

NUMBER OF PACKAGES

Quantity per pallet	36 pcs
Quantity per container	26 pallets / 936 pcs
Pallet dimensions	1759*1132*1266 mm
Pallet weight	764 kg
Max stackable pallets	2 pallets