

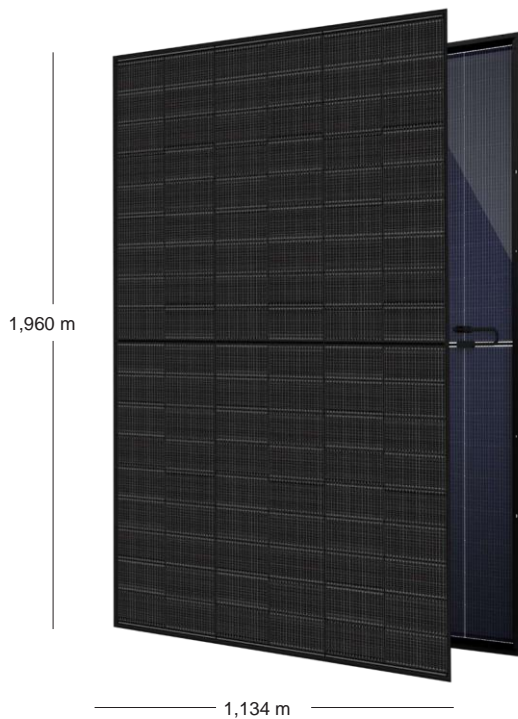
Quartz HJT 500Wc

Heterojunction technology
108 half-cut cells • Double glass • Bifacial

mylight 150

Produce more, for longer!

The truly innovative Quartz HJT 500Wc combines performance and resistance. The use of heterojunction technology in a double-glass, bifacial panel ensures maximum production in real-life conditions, regardless of the weather. Reduce your system's payback period, all with a panel that's less than 2 m long



Currently the most advanced panel technology on the market



Top performance and exceptional production throughout the product's entire service life

With a module efficiency rating of 22.50% and an annual degradation rate of 0.36%, compared to the 0.4% of N-type panels, the HJT 500 guarantees 30 years of exceptional production.



Increased energy production, even in hot weather

With a temperature coefficient of $-0.26\%/^{\circ}\text{C}$ compared to the $-0.31\%/^{\circ}\text{C}$ of N-type panels, the HJT 500's excellent performance is not affected by very high temperatures.

On a typical summer's day with an ambient temperature of 30°C , the heterojunction panel will produce 25% more than an N-type panel.



Maximum production, even on cloudy days

On cloudy days, the Quartz HJT 500Wc's heterojunction cells generate more energy than N-type panels.

Your system will still have superior performance even when solar irradiance is low.



Bifacial by nature

The Quartz HJT 500Wc is bifacial so you can capture sunlight on both sides of the panel. But that's not all ... it has a higher bifaciality factor than other panels, which means it can generate up to 30% more power.



Flexible cells that don't crack...

Heterojunction cells are flexible and, therefore, there's no risk of microcracks.



... protected by double glass

Covered by two layers of glass, one on the front and one on the back, the panels are fully protected against humidity throughout their entire service life.



Synchronised power

mylight150 designs and distributes solar self-consumption and intelligent energy management technologies to strike the perfect balance between comfort and price.

MODULE EFFICIENCY RATING

22.50%

PRODUCT AND PERFORMANCE WARRANTY

30 YEARS

Mechanical characteristics

Dimensions (L/W/H)	1,960 x 1,134 x 30 mm
Weight	27.6 kg
Name, dimensions, and cell type	108 182 x 105 mm half-cut monocrystalline heterojunction cells
Front/back glass	2x 2 mm high transparency, anti-reflective glass
Frame	Anodised aluminium
Connector type	Stäubli EVO2
Junction box	IP68
Connection cable	4.0 mm ² , 1,200 mm
Mechanical load	Front side 5,400 Pa / Back side 2,400 Pa

Packaging configuration

Modules per pallet	36
Modules per lorry	792

Electrical characteristics

MODEL	500Wc	
	Front (STC*)	Back (BSTC**)
Maximum power point P_{max}	500	557
Open-circuit voltage V_{oc} (V)	40.75	40.89
Short-circuit current I_{sc} (A)	15.33	17.09
Voltage at maximum power V_{mp} (V)	34.20	34.32
Current at maximum power I_{mp} (A)	14.62	16.24
Cell efficiency rating	25.4%	
Module efficiency rating	22.50%	

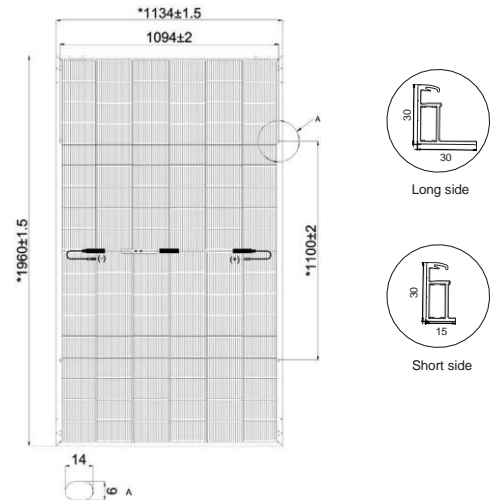
*STC (standard test conditions) : Irradiance 1,000 W/m², module temperature 25°C; AM = 1.5.

**BSTC: Front side irradiation 1,000 W/m², back side reflection irradiation 135 W/m², AM=1.5, ambient temperature 25°C.

Usage conditions

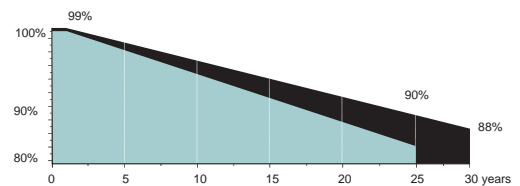
Maximum system voltage	1,500 V DC
Standard fuse rating	30 A
Power tolerance (%)	+/-3
Pmax bifaciality factor	85% +/- 5%
Pmax temperature coefficient	-0.26 %/°C
V_{oc} temperature coefficient	-0.24%/°C
I_{sc} temperature coefficient	+0.04%/°C
Operating temperature	-40~+85°C

Dimensions* (in mm)



*All dimensions are shown in mm

Linear performance warranty



■ Quartz linear performance warranty
■ Industry-standard performance warranty

Qualifications & certifications



61215
61730

Quality standards



FTE-0090 - mylight150 Quartz HJT 500Wc technical data sheet



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