



SOLARHERO 

heropv.com

HERO®PV 450TBT-108



Glass Coating

Double-layer anti-reflective film effectively improves light transmittance and provides a consistently black appearance.



Better Low-Light Performance

High output even under diffuse light, such as on cloudy days.



Double Electroluminescence (EL) Test

Each module is tested twice to ensure the highest possible quality.



Stäubli MC4 Connector

Stäubli MC4 for secure plug connections from the original manufacturer.



N-Type TOPCon Cells

N-type solar cells offer a higher efficiency rate than P-type cells. This means more sunlight is converted into electrical energy.



Laser Welding Technology

Unlike other modules, our diodes are laser welded. This ensures higher quality, safety, and reliability.



Materials and workmanship warranty



Linear power warranty



Figure 10 is a graph showing the variation of current (A) and power (W) with voltage (V) for a solar cell at 25°C under different irradiance levels. The x-axis represents Voltage (V) from 0 to 45. The left y-axis represents Current (A) from 0 to 16. The right y-axis represents Power (W) from 0 to 500. Six curves are shown for irradiance levels of 200, 400, 600, 800, and 1000 W/m². Each curve shows a peak current and a peak power. The current increases linearly with voltage up to the peak, then drops sharply. The power increases with voltage up to the peak, then drops sharply.

Model Number	450TBT-108
Rated Power in Watts-Pmax(Wp)	339
Open Circuit Voltage-Voc(V)	37.70
Short Circuit Current-Isc(A)	11.31
Max. Power Voltage-Vmpp(V)	31.05
Max. Power Current-Impp(A)	10.95
Power tolerance	0~+3%
NOCT	45°C±2°C
Operating Temperature	-40°C~85°C

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	1800x1140x1250	1800x1140x1250
Box Gross Weight (kg)	808	936
Number of Modules Per 40ft (HQ) Container	806	936
Number of Pallets Per 40ft (HQ) Container	26	26

0.40% Annual Degradation over 30 years

Guaranteed Performance (%)

Year

Solar Hero Standard

Common module's Standard

Additional Value From Solar Hero Linear Warranty

Year	Solar Hero Standard (%)	Common module's Standard (%)
1	99.6	99.6
5	98.8	98.8
10	98.0	98.0
15	97.2	97.2
20	96.4	96.4
25	87.4	89.9

Solar Hero GmbH | info@solarhero.de | Amtsgericht Düsseldorf - HRB 99307 | Vertretungsberechtigter Marco Balogh