

GERMAN BRAND 

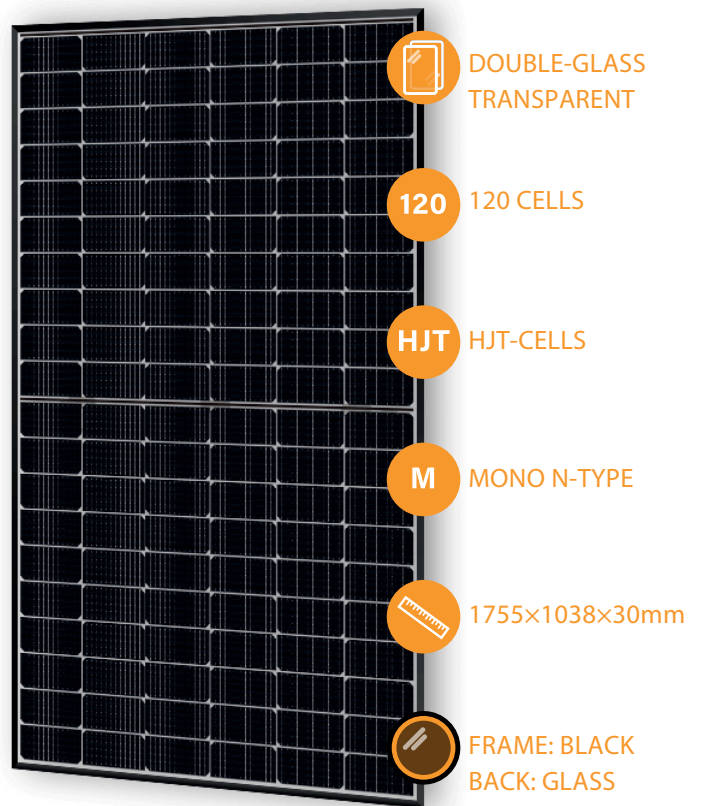
20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

## Strong Style HJT

### ASWS-390-MH120N-BG

Double-Glass Bifacial HJT Half-Cell PV-Modules



#### POSITIVE ENERGY BALANCE

Double-sided power generation shortens the amortization period. A longer lifetime ensures a positive energy balance.



#### HIGH EFFICIENCY

Module power reaches output of 390 Watt / Module efficiency reaches 21.4%.



#### STRINGENT QUALITY CONTROL

100% in-house EL double inspection goes well beyond certification requirements.



#### WIDE APPLICATION

Suitable for vertical installation, projects on outdoor areas and especially for installation areas with high fire protection requirements.



#### BIFACIALITY

Higher yield due to double-sided power generation. The average bifaciality can reach 90±5%.



#### DOUBLE-GLASS

Higher mechanical load capacity thanks to double-glass. In addition, cells are effectively protected from environmental influences.

# Strong Style HJT ASWS-390-MH120N-BG

Double-Glass Bifacial HJT Half-Cell PV-Modules

## Mechanical Data

Cell Type	HJT Monocrystalline, n-Type
Cell Arrangement	120(60x2)
Module Dimensions	1755x1038x30mm
Weight	23.5kg
Glass	2.0mm highly transparent, reinforced glass
Back	2.0mm highly transparent, reinforced glass
Frame Material	Anodized aluminium alloy (black)
Junction Box	Protection class IP68
Cable	4.0mm <sup>2</sup> positive pole: 1100mm negative pole: 1100mm; cable length can be customized
Maximum Test Load Pull / Push	2400Pa / 5400Pa
Connector	MC4 compatible connector
Fire Rating Class	Class A

## Electrical Data (STC)\*

Maximum Power (Pmax/W)	380	385	390
Voltage at Maximum Power (Vmp/V)	37.09	37.15	37.23
Current at Maximum Power (Imp/A)	10.27	10.37	10.49
Open Circuit Voltage (Voc/V)	44.47	44.57	44.67
Short Circuit Current (Isc/A)	10.72	10.82	10.92
Module Efficiency (%)	20.90	21.10	21.40
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5
Bifaciality (%)	90±5	90±5	90±5

## Electrical Data (BSTC)\*\*

Maximum Power (Pmax/W)	425	430	435
Voltage at Maximum Power (Vmp/V)	38.49	38.70	38.87
Current at Maximum Power (Imp/A)	11.13	11.18	11.22
Open Circuit Voltage (Voc/V)	45.61	45.88	46.21
Short Circuit Current (Isc/A)	11.54	11.58	11.61

\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

\*\* BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, ambient temperature 25°C, AM 1.5

## Temperature Coefficients

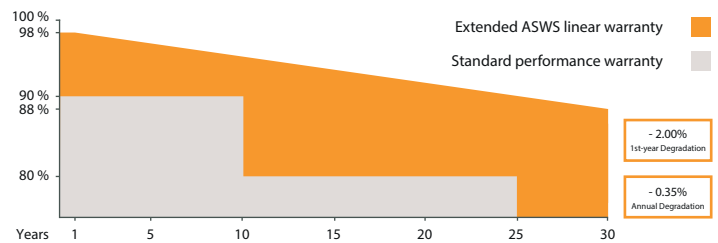
Temperature Coefficient (Pm)	-0.26%/°C
Temperature Coefficient (Voc)	-0.24%/°C
Temperature Coefficient (Isc)	0.04%/°C

## Operating Parameters

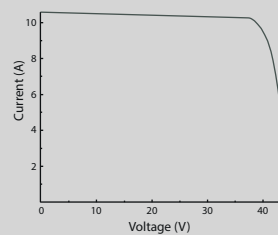
Maximum System Voltage	1500V (DC)
Operating Temperature	-40°C~+85°C
NMOT (Nominal Module Operating Temperature)	44°C ± 2°C

## Linear Performance Warranty

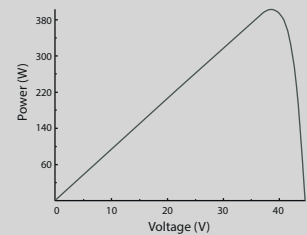
20-year product warranty / 30-year linear power warranty



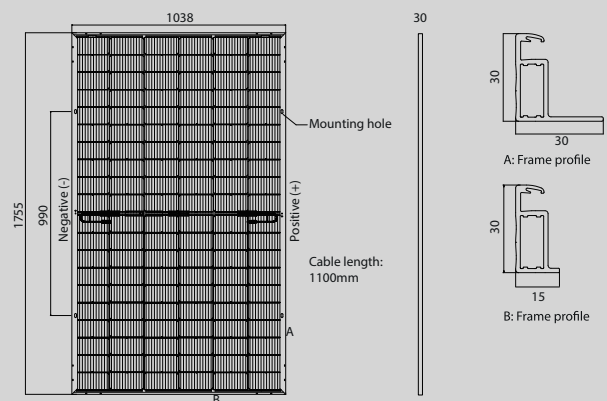
## I-V Curves



## P-V Curves



## Module Dimensions (mm)



## Packaging

Pallets Per 40'HQ Container:	26
Modules Per Pallet:	36pcs
Modules Per 40'HQ Container:	936pcs

LVD  
EMC



IEC 61215 / IEC 61730 WEEE-Reg.-Nr. DE 15553592