

GERMAN BRAND 

20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Strong Style HJT

ASWS-XXX-MH108N-BG

Double-Glass Bifacial HJT Half-Cell PV-Modules

MAX. STC* | **MAX. BSTC****
430 W | **480 W**



BIFACIALITY

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



HIGH EFFICIENCY

Module power reaches output of 430 watt / Module efficiency reaches 22.02%.



WIDE APPLICATION

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



Stäubli MC4-CONNECTOR

Solar modules are equipped with original Stäubli MC4-Evo 2 connectors.

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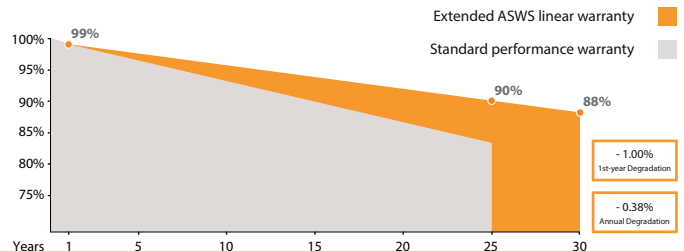
Double-Glass Bifacial HJT Half-Cell PV-Modules

Mechanical Data

Cell Type	HJT Monocrystalline, n-Type
Cell Arrangement	108 M10 Half-Cells (6×18)
Module Dimensions	1722×1134×30 mm
Weight	22.0 kg
Glass	1.6 mm highly transparent, reinforced glass
Back	1.6 mm highly transparent, reinforced glass
Frame Material	Anodized aluminium alloy (black)
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 1100 mm, negative pole: 1100 mm; cable length can be customized
Maximum Test Load Pull / Push	2400 Pa / 5400 Pa
Connector	Original Stäubli MC4-Evo 2
Fire Rating Class	Class A
No. of Bypass Diodes	3 Bypass Diodes

Linear Performance Warranty

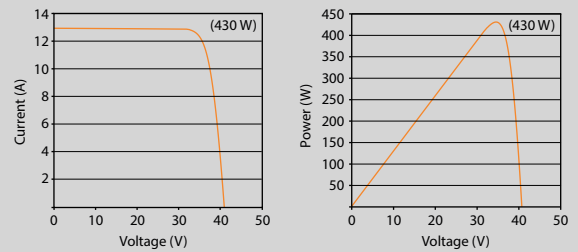
20-year product warranty / 30-year linear power warranty



Electrical Data (STC)*

Parameter	420	425	430
Maximum Power (Pmax/W)	420	425	430
Voltage at Maximum Power (Vmp/V)	34.07	34.33	34.60
Current at Maximum Power (Imp/A)	12.33	12.38	12.43
Open Circuit Voltage (Voc/V)	40.33	40.60	40.87
Short Circuit Current (Isc/A)	12.85	12.90	12.95
Module Efficiency (%)	21.51	21.76	22.02
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5
Bifaciality (%)	90±5	90±5	90±5

I-V Curve / P-V Curve



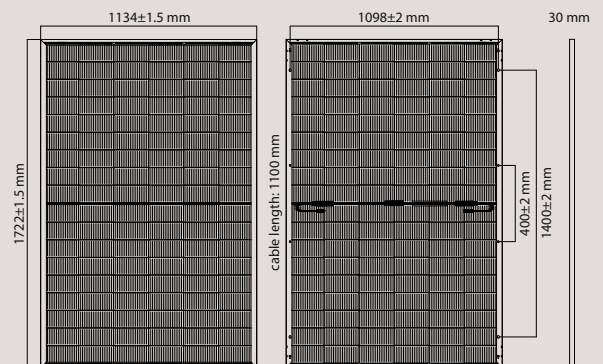
Electrical Data (BSTC)**

Parameter	470	475	480
Maximum Power (Pmax/W)	470	475	480
Voltage at Maximum Power (Vmp/V)	34.07	34.33	34.60
Current at Maximum Power (Imp/A)	13.80	13.84	13.88
Open Circuit Voltage (Voc/V)	40.33	40.60	40.87
Short Circuit Current (Isc/A)	14.38	14.42	14.46

* STC (Standard Testing Conditions): Irradiance 1000 W/m², Cell Temperature 25°C, AM 1.5

** BSTC: Irradiance, Front 1000 W/m², Irradiance by reflection, Back 135 W/m², Ambient temperature 25°C, AM 1.5

Module Dimensions (mm)



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

Packaging

Modules per Box:	36 pcs
Modules per 40'HQ Container:	936 pcs

LVD
EMC

CE



Class II



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



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