

GERMAN BRAND 

15 YEARS PRODUCT WARRANTY

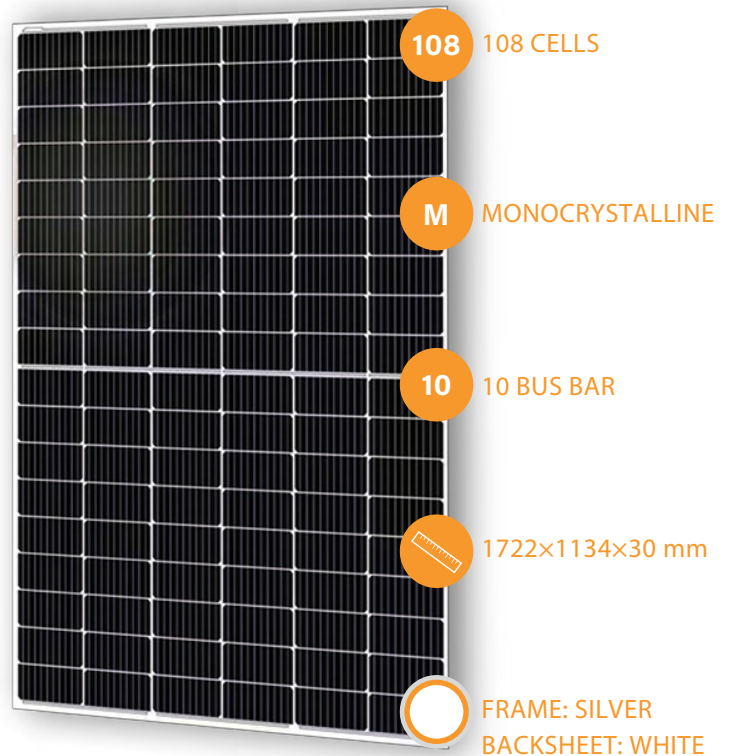
30 YEARS LINEAR POWER WARRANTY

## Silver Style SERIES

### ASWS-XXX-MH108-SW

Half-Cell Monocrystalline Silicon PV Modules

**MAX. STC\***  
**410 W**



#### HOT-SPOT RESISTANCE

Excellent hot-spot immunity effectively avoids the power loss caused by shadow coverage.



#### ANTI-PID CHARACTERISTICS

Guarantee: Half-cell monocrystalline PV-modules from large-scale production pass the PID test.



#### HARSH ENVIRONMENT ADAPTATION

Tested: High salt mist and ammonia resistance.



#### STRINGENT QUALITY CONTROL

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

# Silver Style SERIES

## ASWS-XXX-MH108-SW

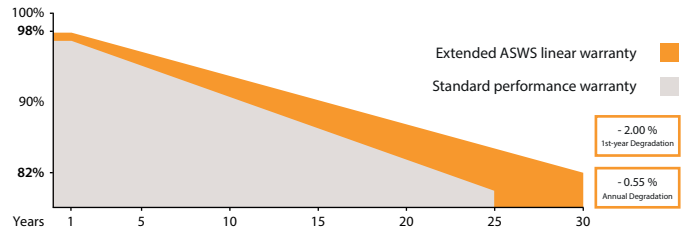
Half-Cell Monocrystalline Silicon PV Modules

### Mechanical Data

Cell Type	PERC Half-Cells, Mono
Cell Arrangement	108 Cells (6x18)
Module Dimensions	1722x1134x30 mm
Weight	21.0 kg
Glass	3.2 mm highly transparent, reinforced glass
Backsheet	Anti-aging film (white)
Frame Material	Anodized aluminium alloy (silver)
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 1200 mm, negative pole: 1200 mm; cable length can be customized
Maximum Test Load Pull / Push	2400 Pa / 5400 Pa
Connector	MC4 compatible connector
No. of Bypass Diodes	3 Bypass Diodes

### Linear Performance Warranty

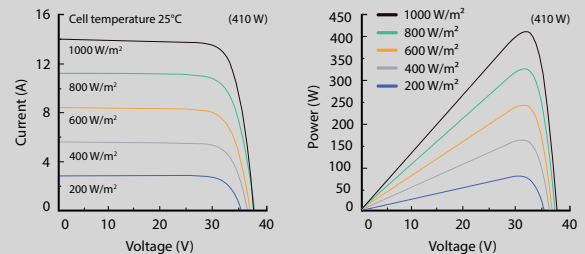
15-year product warranty / 30-year linear power warranty



### Electrical Data (STC)\*

Maximum Power (Pmax/W)	400	405	410
Voltage at Maximum Power (Vmp/V)	31.18	31.31	31.44
Current at Maximum Power (Imp/A)	12.83	12.95	13.05
Open Circuit Voltage (Voc/V)	37.04	37.19	37.33
Short Circuit Current (Isc/A)	13.73	13.91	13.98
Module Efficiency (%)	20.50	20.70	21.00
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5

### I-V Curves / P-V Curves



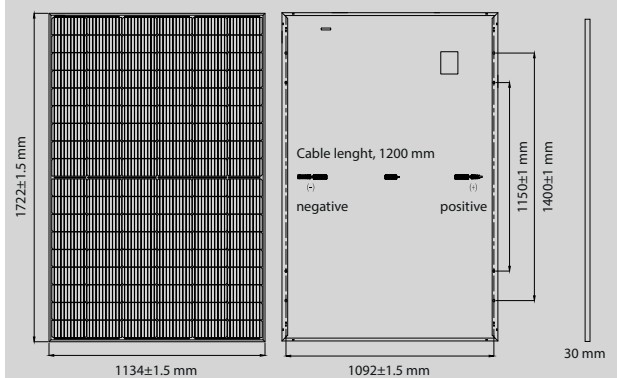
### Electrical Data (NMOT)\*\*

Maximum Power (Pmax/W)	302.3	301.0	305.0
Voltage at Maximum Power (Vmp/V)	28.8	29.68	29.8
Current at Maximum Power (Imp/A)	10.50	10.14	10.23
Open Circuit Voltage (Voc/V)	35.2	35.25	35.38
Short Circuit Current (Isc/A)	11.04	11.23	11.28

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

\*\* NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, AM 1.5, Wind Speed 1 m/s

### Module Dimensions (mm)



### Temperature Coefficients

Temperature Coefficient (Pm)	-0.35 %/°C
Temperature Coefficient (Voc)	-0.27 %/°C
Temperature Coefficient (Isc)	0.05 %/°C

### Operating Parameters

Maximum System Voltage	1500 V (DC)
Operating Temperature	-40 °C ~ +85 °C
NMOT (Nominal Module Operating Temperature)	45±2 °C

### Packaging

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

LVD  
EMC



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



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