

GERMAN BRAND 

20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Silver Style SERIES

ASWS-410-MH108-SW

Half-Cell Monocrystalline Silicon PV Modules



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.

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ASWS-410-MH108-SW

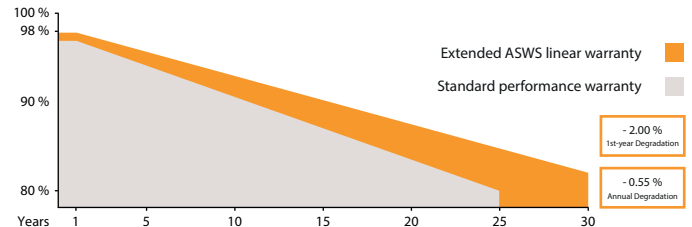
Half-Cell Monocrystalline Silicon PV Modules

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 ² 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

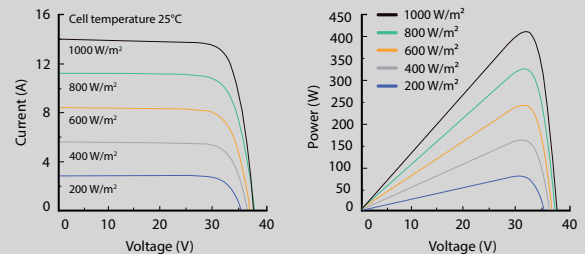
20-year product warranty / 30-year linear power warranty



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



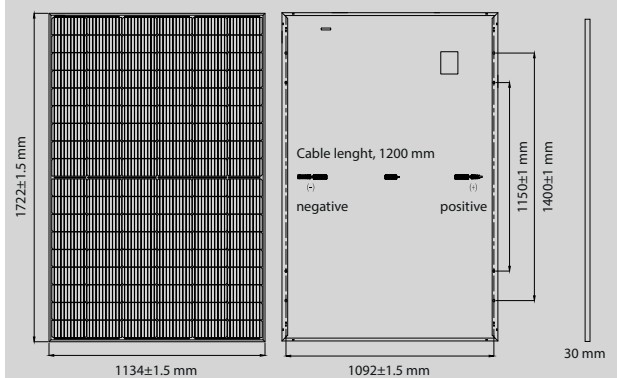
Electrical Data (NMOT)**

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/m², Cell Temperature 25°C, AM 1.5

** NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², 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

CE



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



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