

GERMAN BRAND 

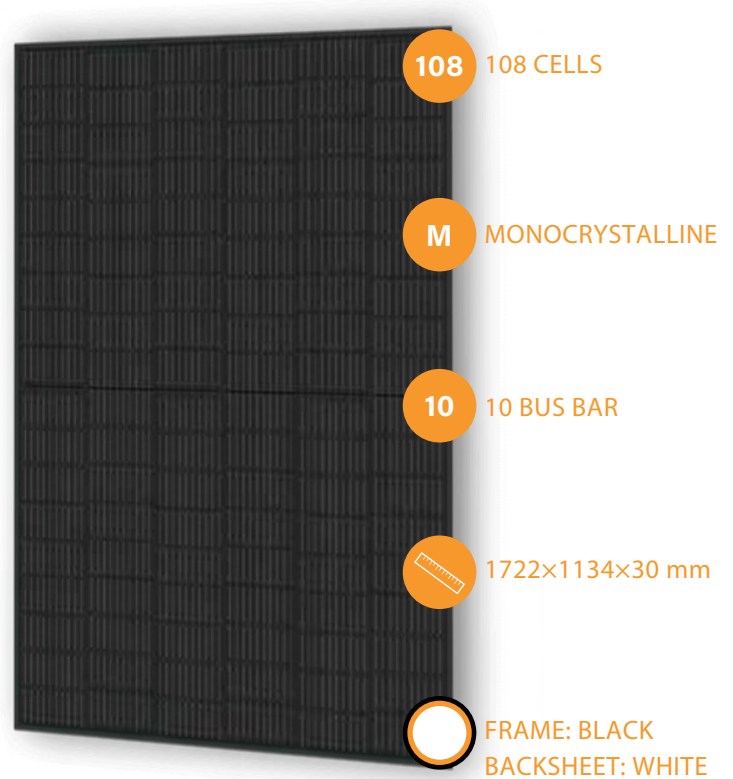
20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Black Style SERIES

ASWS-400-MH108-BW

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.

Black Style SERIES

ASWS-400-MH108-BW

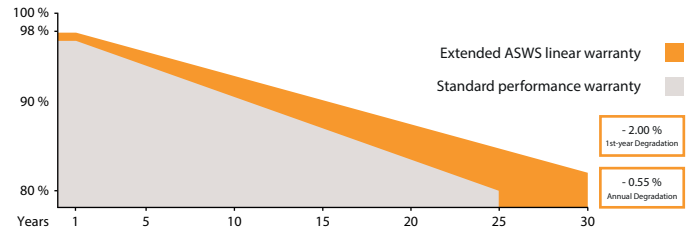
Half-Cell Monocrystalline Silicon PV Modules

Mechanical Data

Cell Type	PERC Half-Cells, Mono
Cell Arrangement	108 Cells (6×18)
Module Dimensions	1722×1134×30 mm
Weight	21.5 kg
Glass	3.2 mm highly transparent, reinforced glass
Backsheet	Anti-aging film (white)
Frame Material	Anodized aluminium alloy (black)
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

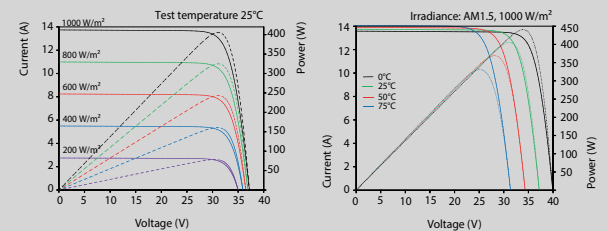
20-year product warranty / 30-year linear power warranty



Electrical Data (STC)*

Maximum Power (Pmax/W)	395	400	405
Voltage at Maximum Power (Vmp/V)	31.25	31.36	31.47
Current at Maximum Power (Imp/A)	12.64	12.76	12.87
Open Circuit Voltage (Voc/V)	37.02	37.11	37.20
Short Circuit Current (Isc/A)	13.51	13.63	13.74
Module Efficiency (%)	20.23	20.48	20.74
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5

I-V Curves / P-V Curves



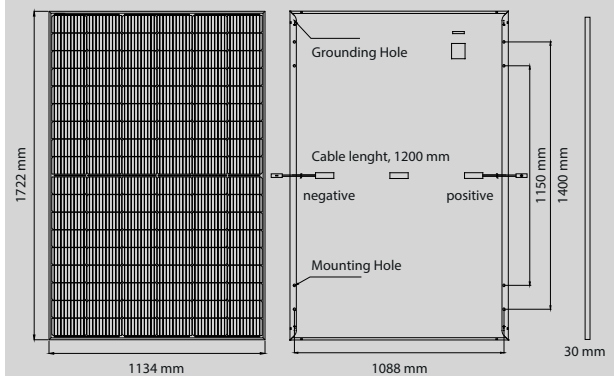
Electrical Data (NOCT)**

Maximum Power (Pmax/W)	292	295	299
Voltage at Maximum Power (Vmp/V)	28.43	28.53	28.64
Current at Maximum Power (Imp/A)	10.26	10.35	10.43
Open Circuit Voltage (Voc/V)	34.20	34.27	34.35
Short Circuit Current (Isc/A)	10.91	11.00	11.10

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

** NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

Module Dimensions (mm)



Temperature Coefficients

Temperature Coefficient (Pm)	-0.34 %/°C
Temperature Coefficient (Voc)	-0.26 %/°C
Temperature Coefficient (Isc)	0.05 %/°C

Operating Parameters

Maximum System Voltage	1500 V (DC)
Operating Temperature	-40 °C ~ +85 °C
NOCT (Nominal Operating Cell Temperature)	45 °C

Packaging

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



IEC 61215 / IEC 61730

WEEE-Reg.-Nr. DE 15553592



ASWS GmbH | Industriestr. 9 | 40822 Mettmann - GER
Tel. +49 21 04 / 17 5 77 6 - 0 | info@asws-solar.de
www.asws-solar.de