

GERMAN BRAND 

15 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Black Style SERIES

ASWS-XXX-MH108-BW

Half-Cell Monocrystalline Silicon PV Modules

MAX. STC*
405 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.

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ASWS-XXX-MH108-BW

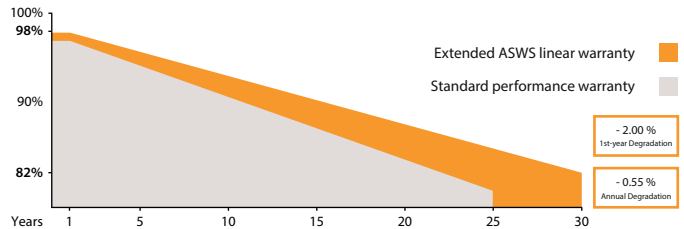
Half-Cell Monocrystalline Silicon PV Modules

Mechanical Data

| | |
|-------------------------------|--|
| Cell Type | PERC Half-Cells, Mono |
| Cell Arrangement | 108 Cells (6x18) |
| Module Dimensions | 1722x1134x30 mm |
| Weight | 21.5 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

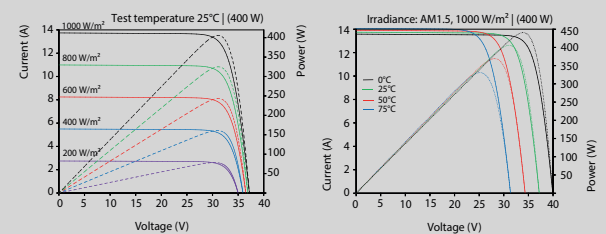
15-year product warranty / 30-year linear power warranty



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



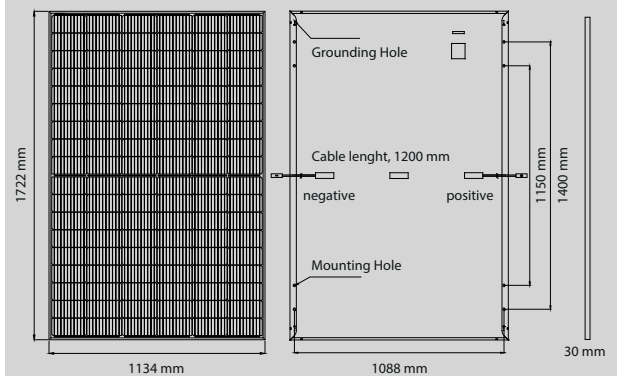
Electrical Data (NOCT)**

| | | | |
|----------------------------------|-------|-------|-------|
| 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