

GERMAN BRAND 

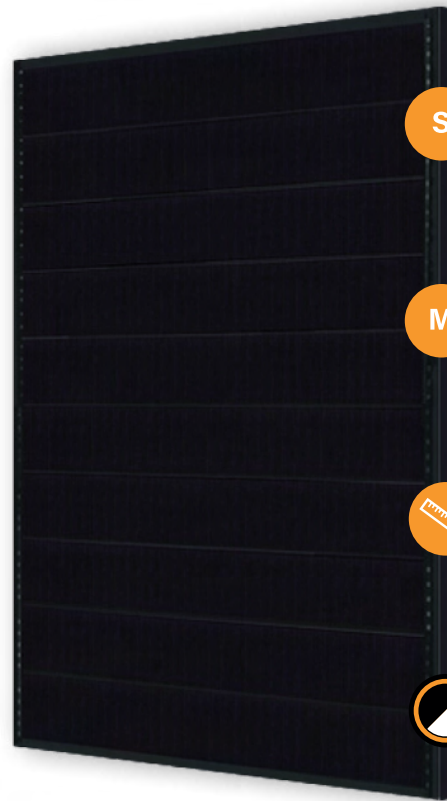
20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Boost S

ASWS-XXX-MS305-BW

Shingled-Cell Monocrystalline Silicon PV Modules

MAX. STC*
415 W**S** SHINGLED-CELLS**M** MONOCRYSTALLINE 1812x1096x30 mm FRAME: BLACK
BACKSHEET: PANDA-FOIL

QUALITY CONTROL

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



UNIVERSAL SOLUTION

Wide range of application: Ideal for residential and commercial roofs.



LOW-LIGHT-PERFORMANCE

Shingle technology guarantees high power output even in cloudy and low-light conditions.



COMPACT AND POWERFUL

Module power reaches output of 415 watt / Module efficiency reaches 20.90% (due to missing busbars).



SHINGLE-TECHNOLOGY

Shingle modules do not require tape soldering - reduces mechanical load and microcracks.



LOW COST PER KILOWATT HOUR

High efficiency enables lower costs per kilowatt hour - profitability increases.

Boost S

ASWS-XXX-MS305-BW

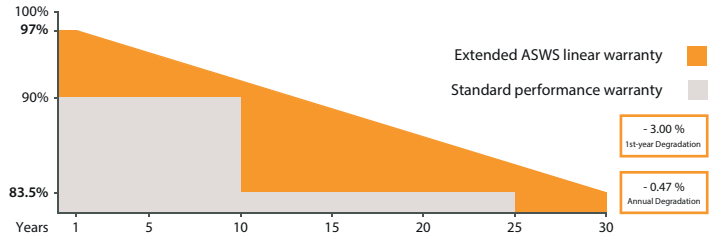
Shingled-Cell Monocrystalline Silicon PV Modules

Mechanical Data

Cell Type	Shingled-Cells, Mono
Cell Arrangement	305 Cells (61x5)
Module Dimensions	1812x1096x30 mm
Weight	20.8 kg
Glass	3.2 mm highly transparent, reinforced glass
Backsheet	Anti-aging film (panda-foil)
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	2 Bypass Diodes

Linear Performance Warranty

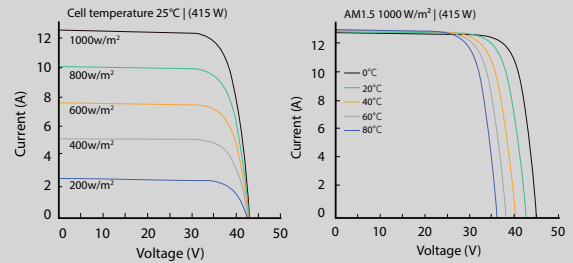
20-year product warranty / 30-year linear power warranty



Electrical Data (STC)*

Maximum Power (Pmax/W)	405	410	415
Voltage at Maximum Power (Vmp/V)	34.30	34.40	34.40
Current at Maximum Power (Imp/A)	11.86	11.97	12.08
Open Circuit Voltage (Voc/V)	41.30	41.40	41.50
Short Circuit Current (Isc/A)	12.53	12.65	12.80
Module Efficiency (%)	20.40	20.60	20.90
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5

I-V Curves



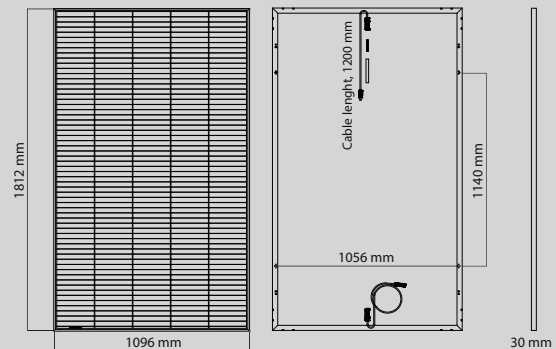
Electrical Data (NMOT)**

Maximum Power (Pmax/W)	305	309	312
Voltage at Maximum Power (Vmp/V)	32.70	32.80	32.80
Current at Maximum Power (Imp/A)	9.33	9.41	9.53
Open Circuit Voltage (Voc/V)	39.40	39.50	39.60
Short Circuit Current (Isc/A)	10.09	10.19	10.31

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

** NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1 m/s

Module Dimensions (mm)



Temperature Coefficients

Temperature Coefficient (Pm)	-0.34 %/°C
Temperature Coefficient (Voc)	-0.27 %/°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)	42.30±2 °C

Packaging

Modules per Box:	30 / 36 pcs
Modules per 40'HQ Container:	924 pcs

LVD
EMC

CE



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