

GERMAN BRAND 

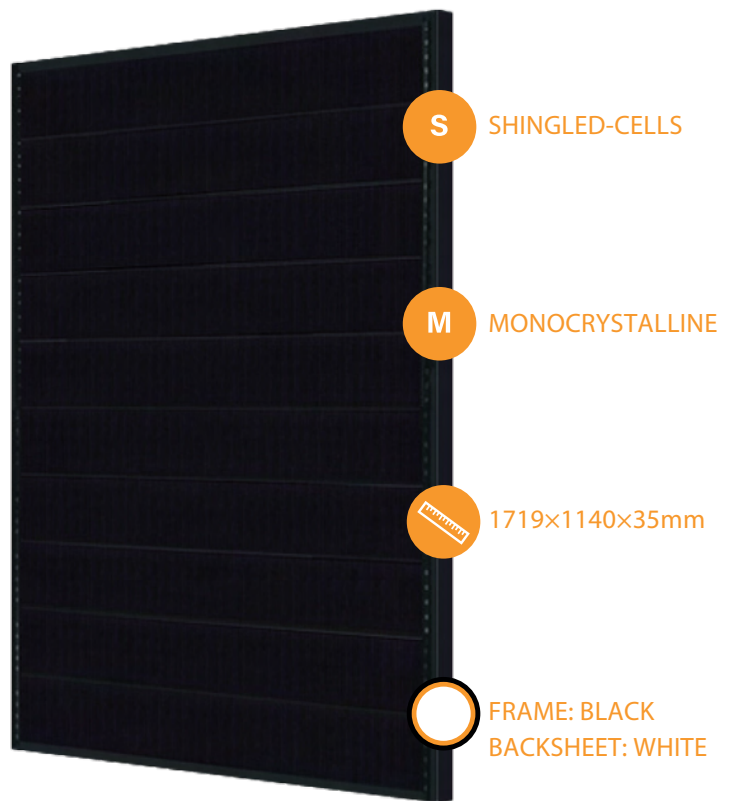
20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

## Boost S

### ASWS-415-MS-BW

Shingled-Cell Monocrystalline Silicon PV Modules



#### 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 21.20% (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-415-MS-BW

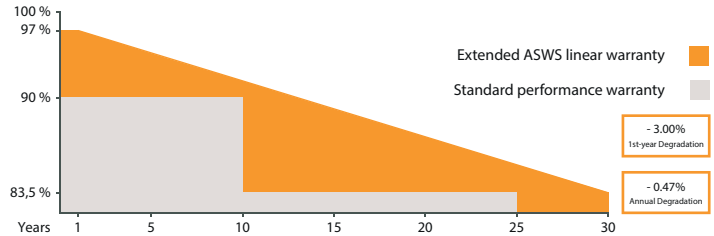
Shingled-Cell Monocrystalline Silicon PV Modules

## Mechanical Data

Cell Type	Shingled-Cells, Mono
Cell Arrangement	340 Cells (34x10)
Module Dimensions	1719x1140x35mm
Weight	22.0kg
Glass	3.2mm highly transparent, reinforced glass
Backsheet	Anti-aging film (white)
Frame Material	Anodized aluminium alloy (black)
Junction Box	Protection class IP68
Cable	4.0mm <sup>2</sup> positive pole; 1000mm negative pole; 1000mm; cable length can be customized
Maximum Test Load Pull / Push	2400Pa / 5400Pa
Connector	MC4 compatible connector
No. of Bypass Diodes	3 Bypass Diodes

## Linear Performance Warranty

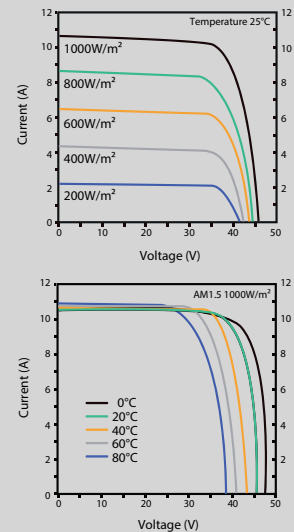
20-year product warranty / 30-year linear power warranty



## Electrical Data (STC)\*

Maximum Power (Pmax/W)	395	400	405	410	415
Voltage at Maximum Power (Vmp/V)	37.10	37.50	37.90	38.30	38.70
Current at Maximum Power (Imp/A)	10.65	10.67	10.69	10.71	10.73
Open Circuit Voltage (Voc/V)	44.40	44.70	45.10	45.50	45.90
Short Circuit Current (Isc/A)	13.86	13.94	14.02	14.10	14.18
Module Efficiency (%)	20.20	20.40	20.70	20.90	21.20
Power Sorting (W)	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5

## I-V Curves



## Electrical Data (NMOT)\*\*

Maximum Power (Pmax/W)	297	301	305	309	313
Voltage at Maximum Power (Vmp/V)	36.7	36.8	36.9	37.0	37.1
Current at Maximum Power (Imp/A)	8.10	8.18	8.27	8.35	8.43
Open Circuit Voltage (Voc/V)	44.1	44.2	44.3	44.4	44.5
Short Circuit Current (Isc/A)	8.81	8.85	8.89	8.93	8.97

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

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

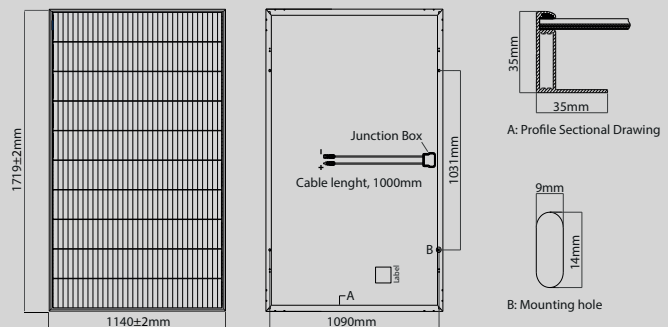
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.35%/°C
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.048%/°C

## Operating Parameters

Maximum System Voltage	1500V (DC)
Operating Temperature	-40°C~+85°C
NMOT (Nominal Module Operating Temperature)	43±2°C

## Module Dimensions (mm)



## Packaging

Modules per Pallet:	31pcs
Modules per 40'HQ Container:	806pcs

