

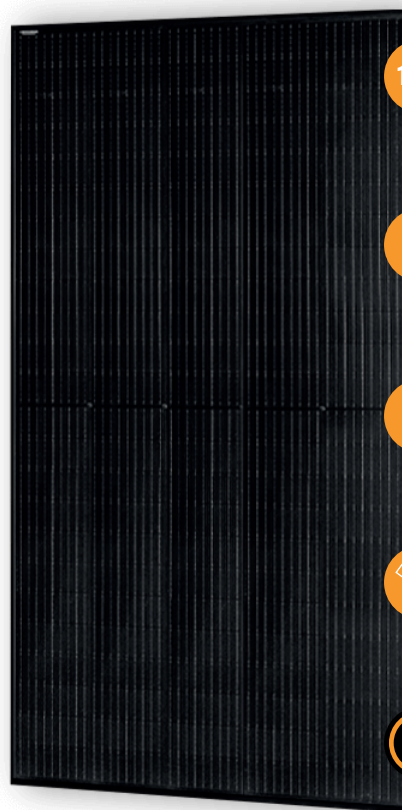
GERMAN BRAND 

20 YEARS PRODUCT WARRANTY

30 YEARS LINEAR POWER WARRANTY

Black Style BOOST ASWS-400-MT120-BB

Tri-Cut Monocrystalline Silicon PV Modules



120 120 CELLS

M MONOCRYSTALLINE

9 9 BUS BAR

1754×1096×30mm

FRAME: BLACK
BACKSHEET: BLACK



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.



HOT-SPOT EFFECT

Hot-spot immunity effectively avoids power loss caused by shadow coverage.



COMPACT AND POWERFUL

Module power reaches output of 400 watt / Module efficiency reaches 20.81%.



LOW-LIGHT-PERFORMANCE

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



LOW COST PER KILOWATT HOUR

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

Black Style BOOST ASWS-400-MT120-BB

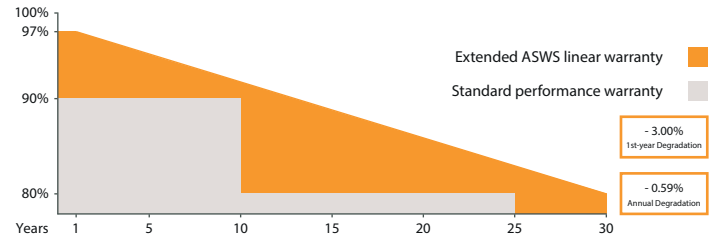
Tri-Cut Monocrystalline Silicon PV Modules

Mechanical Data

Cell Type	210×70mm Mono
Cell Orientation	120 (5×24)
Module Dimensions	1754×1096×30mm
Weight	21.5kg
Glass	3.2mm highly transparent, reinforced glass
Backsheet	Anti-aging film (black)
Frame Material	Anodized aluminium alloy (black)
Junction Box	Protection class IP68, 3 bypass diodes
Cable	4.0mm ² positive pole: 1200 mm negative pole: 1200 mm; wire length can be customized
Maximum Test Load Pull / Push	2400Pa / 5400Pa
Connector	MC4 compatible connector

Linear Performance Warranty

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



Electrical Data (STC)*

Maximum Power (Pmax/W)	390	395	400
Voltage at Maximum Power (Vmp/V)	33.80	34.00	34.20
Current at Maximum Power (Imp/A)	11.54	11.62	11.70
Open Circuit Voltage (Voc/V)	40.80	41.00	41.20
Short Circuit Current (Isc/A)	12.14	12.21	12.28
Module Efficiency (%)	20.29	20.55	20.81
Power Selection (W)	0 ~ +5	0 ~ +5	0 ~ +5

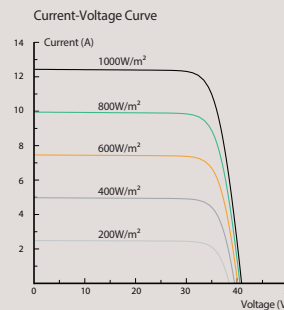
Electrical Data (NMOT)**

Maximum Power (Pmax/W)	291	294	298
Voltage at Maximum Power (Vmp/V)	31.40	31.60	31.81
Current at Maximum Power (Imp/A)	9.26	9.31	9.37
Open Circuit Voltage (Voc/V)	38.03	38.21	38.39
Short Circuit Current (Isc/A)	9.81	9.86	9.92

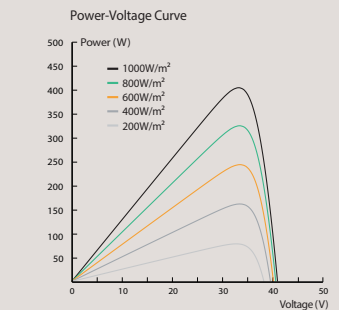
* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

** NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

I-V Curves



P-V Curves



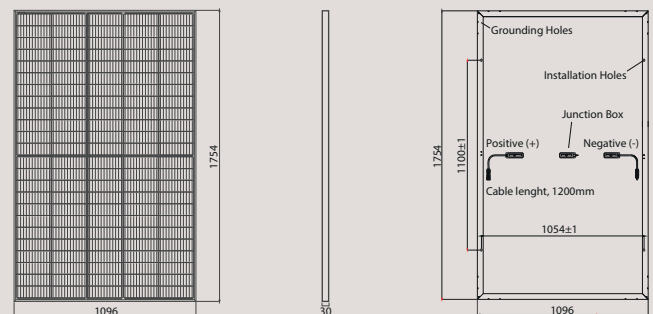
Temperature Coefficients

Temperature Coefficient (Pm)	-0.35%/°C
Temperature Coefficient (Voc)	-0.29%/°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)	45±2°C

Module Dimensions (mm)



Packaging

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

LVD
EMC

CE



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



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