



Model: AS-S132-M12N-XXX-BG

Anglo Solar | A British solar module brand owned by UKSOL Ltd.

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POWER OUTPUT

685-705W

TOPCon Cell, Bifacial

High Customer Value

- Lower LCOE (Levelised Cost of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Designed for compatibility with existing mainstream system components
- Lower guaranteed first year and annual degradation
- Higher return on investment

High Power up to 705W

- Large area cells based on 210mm silicon wafers and half-cut cell technology
- Up to 22.7% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High Reliability

- Minimised micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400Pa positive load and 2400 Pa negative load

High Energy Yield

- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimised energy production under inter-row shading conditions

- Max Module Efficiency: 22.7%
- No. of Cells: 132 (6 x 20)
- Weight: 33.9kgs
- Dimensions: 2384 x 1303 x 35mm
- Monocrystalline 210mm

1.00% First Year Power Degradation

0.40% Annual Degradation



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



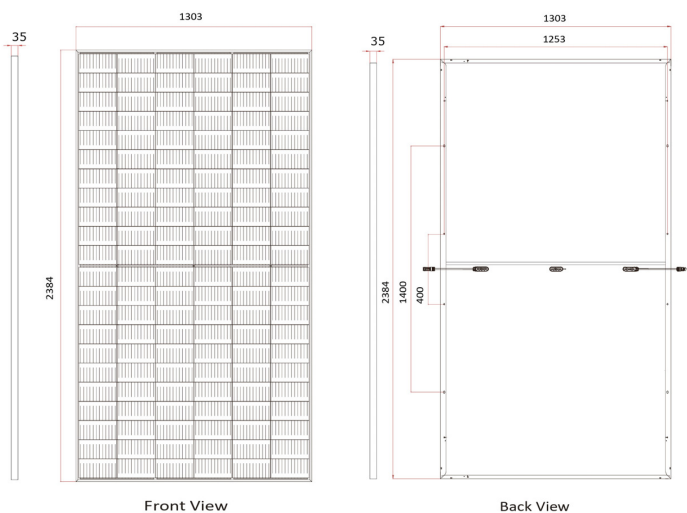
12 YEAR
PRODUCT
WARRANTY

30 YEAR WARRANTY



* Specifications are subject to change without further notification

ENGINEERING DRAWING



Model: AS-S132-M12N-XXX-BG **685-705W**

ELECTRICAL CHARACTERISTICS

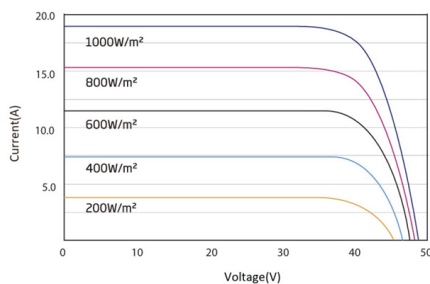
Peak Power Watts-PMAX (Wp)*	685	690	695	700	705
Maximum Power Voltage (Vmp/V)	39.6	39.8	40.0	40.2	40.4
Maximum Power Current (Imp)	17.30	17.34	17.38	17.42	17.46
Open-Circuit Voltage (Voc/V)	47.3	47.5	47.7	47.9	48.1
Short-Circuit Current (Isc/A)	18.33	18.39	18.44	18.50	18.55
Module Efficiency η m (%)	22.1	22.2	22.4	22.5	22.7
Power Tolerance-PMAX (W)	0~+5				
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5; *Measuring tolerance: \pm 3%					

BNPI

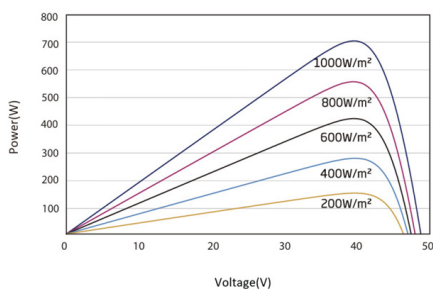
Peak Power Watts-PMAX (Wp)*	730	735	740	745	750
Maximum Power Voltage (Vmp/V)	39.6	39.8	40.0	40.2	40.4
Maximum Power Current (Imp)	18.43	18.47	18.50	18.53	18.56
Open-Circuit Voltage (Voc/V)	47.3	47.5	47.7	47.9	48.1
Short-Circuit Current (Isc/A)	19.54	19.59	19.64	19.69	19.74
BNPI: Irradiance 1000W/m ² , module temperature 25°C					

I - V CURVES

I-V CURVES OF PV MODULE(705 W)



P-V CURVES OF PV MODULE(705 W)



NMOT

Maximum Power Voltage (Vmp/V)	37.0	37.2	37.4	37.6	37.8
Maximum Power Current-Imp (A)	14.06	14.09	14.12	14.15	14.18
Open-Circuit Voltage (Voc/V)	44.6	44.8	45.0	45.2	45.4
Short-Circuit Current (Isc/A)	14.76	14.81	14.85	14.90	14.94
NMOT: Irradiance 800W/m ² , ambient temperature 20°C, AM= 1.5, wind speed 1 m/s					

TEMPERATURE CHARACTERISTICS

NMOT (Nominal Module Operating Temperature)	43°C (\pm 2°C)
Temperature Coefficient of PMAX	0.26%/°C
Temperature Coefficient of VOC	-0.25%/°C
Temperature Coefficient of ISC	+0.04%/°C

MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	132 pcs
Module Dimensions	2384 x 1303 x 33mm
Weight	38.8kgs
Glass	2.0mm, High Transmission, AR coated heat strengthened glass
Encapsulant Material	EVA
Backsheet	2.0mm Heat Strengthened Glass (White Grid Glass)
Frame	30mm anodized aluminium alloy
Junction Box	IP 68 Rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length
Connectors	MC4 compatible

MAXIMUM RATINGS

PACKING CONFIGURATION

Operational Temperature	-40~+85°C	Modules per box	33 pieces
Maximum system voltage	1500 V DC (IEC)	Modules per 40' container	594 pieces
Max Series Fuse Rating	30A		