



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

Model: AS-S132-M10N-R1-BG

POWER OUTPUT

595-625W

TOPCon 182mm Cell, Bifacial

High Module Conversion Efficiency

Module efficiency up to 23.1% achieved through advanced cell technology and manufacturing process

Lower Operating Temperatures

Lower operating temperature and temperature coefficient increase the power output

Excellent Weak Light Performance

More power output in weak light condition, such as cloudy, morning and sunset

Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)

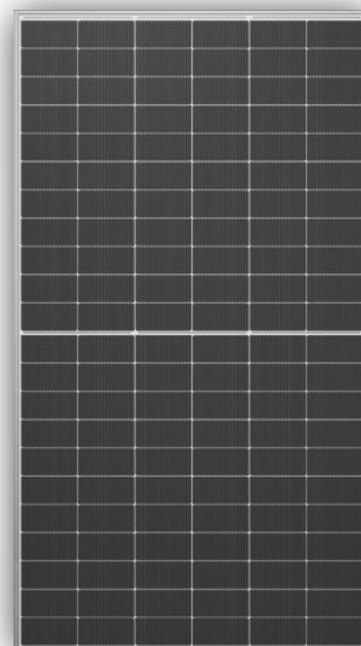
IP68 junction box

High waterproof and dustproof level

- Max Module Efficiency: 23.1%
- No. of Cells: 132 (6 x 20)
- Weight: 34kgs
- Dimensions: 2382 x 1134 x 35mm
- Monocrystalline 182mm

1.00% First Year Power Degradation

0.40% Annual Degradation



**30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY**



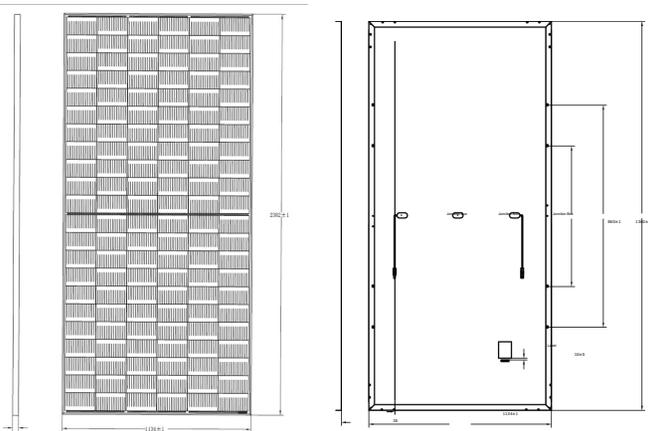
**12 YEAR
PRODUCT
WARRANTY**

* Specifications are subject to change without further notification

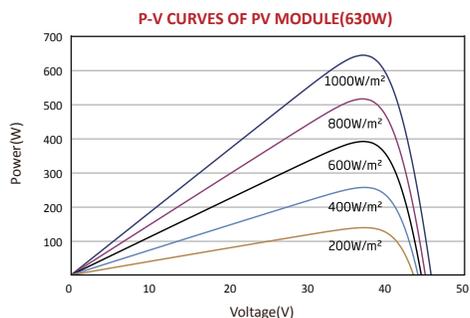
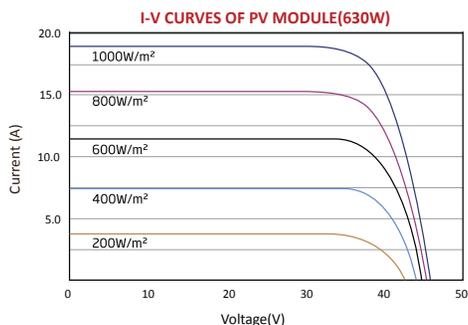
30 YEAR WARRANTY



ENGINEERING DRAWING



I-V CURVES



TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.29%/°C
Temperature Coefficient Voc	-0.25%/°C
Temperature Coefficient Isc	+0.046%/°C
NMOT	42±2°C

Model: AS-S132-M10N-R1-XXX-BG

595-625W

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power at STC (Pmax)	595	600	605	610	615	620	625
Optimum Operating Voltage (Vmp)	39.9	40.1	40.3	40.5	40.7	40.9	41.1
Optimum Operating Current (Imp)	14.91	14.97	15.02	15.07	15.12	15.17	15.21
Open Circuit Voltage (Voc)	48.0	48.2	48.4	48.6	48.8	49.0	49.2
Short Circuit Current (Isc)	15.83	15.90	15.96	16.03	16.10	16.16	16.22
Module Efficiency η_m (%)	22.0	22.2	22.4	22.5	22.8	23.0	23.1
Power Tolerance	0~+5w						
STC: Irradiance 1000W/m2, Cell temperature 25°C, Air Mass AM1.5							

NMOT

Maximum Power at NMOT (PMax)	449W	453W	457W	461W	465W	469W	473W
Optimum Operating Voltage (Vmp)	37.2	37.4	37.6	37.8	38.0	38.2	38.4
Optimum Operating Current (Imp)	12.07	12.11	12.15	12.20	12.24	12.28	12.32
Open-Circuit Voltage (Voc/V)	45.6	45.8	46.0	46.2	46.4	46.6	46.8
Short Circuit Current (Isc) (A)	12.71	12.76	12.82	12.88	12.93	12.99	13.04
NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s							

MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline
No. of Cells	132 Cells (6 x 20)
Module Dimensions	2382 x 1134 x 35mm
Encapsulant Material	POE/EVA
Weight	30.0kg
Front Glass	3.2 AR Coating Tempered Glass
Cable Length	350mm or customised length
Cable Cross Section Size	TUV: 4mm2
No. of Bypass Diodes	3
Frame	30mm Anodized Aluminium Alloy
Junction Box	IP68 Rated.
Packing Configuration	31pcs/carton, 620 pcs/40HQ

OPERATING CONDITIONS

Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400PA / Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible