



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

Model: AS-S144/M10N-xxx-BG

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POWER OUTPUT

565-590W

182 mm Half Cell Series



High Module Conversion Efficiency

Module Efficiency up to 22.8% achieved through advanced cell technology and manufacturing process

Lower Operating Temperature

Lower Operating Temperature and temperature coefficient increase the power output

Excellent Weak Light Performance

More power output in weak light conditions, 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 & Dustproof Level

- Max Module Efficiency: 22.8%
- No. of Cells: 144 cells(6 × 24)
- Weight: 33kgs
- Dimensions: 2279× 1134× 30mm
- Monocrystalline 182×91mm

1.00% First Year Power Degradation

0.40% Annual Degradation

30 YEAR WARRANTY



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



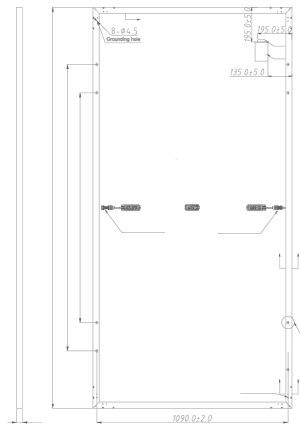
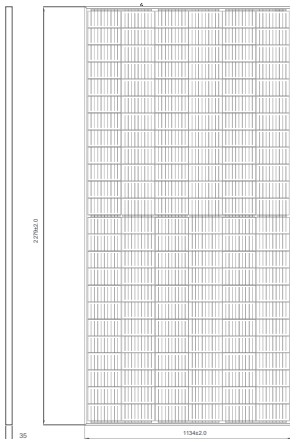
12 YEAR
PRODUCT
WARRANTY

* Specifications are subject to change without further notification

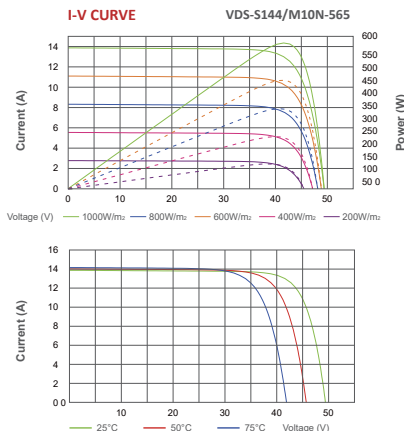
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565W-590W

ENGINEERING DRAWING



IV CURVE



ELECTRICAL CHARACTERISTICS (STC)

Peak Power Watts (Pmax/W)*	565	570	575	580	585	590
Maximum Power Voltage (Vmp/V)	42.9V	43.1V	43.3V	43.5V	43.7V	43.9
Maximum Power Current (Imp/A)	13.18A	13.23A	13.28A	13.34A	13.39A	13.44
Open-Circuit Voltage (Voc/V)	51.6V	51.8V	52.0V	52.2V	52.4V	52.6
Short-Circuit Current (Isc/A)	13.94A	14.01A	14.08A	14.15A	14.22A	14.29
Module Efficiency ηm (%)	21.9%	22.1%	22.2%	22.4%	22.6%	22.8%
Power Tolerance	0~+5W					
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5;						
*Measuring tolerance: ±3%						

BNPI

Peak Power PMax (Pmax)	620	625	630	635	640	645
Maximum Power Voltage (VMP/V)	42.9	43.1	43.3	43.5	43.7	43.9
Maximum Power Current (Imp/A)	14.45	14.50	14.55	14.60	14.65	14.69
Open-Circuit Voltage (Voc/V)	51.6	51.8	52.0	52.2	52.4	52.6
BNPI: Irradiance 1000W/m ² , backside irradiance 135W/m ² , module temperature 25°C, AM= 1.5						

NMOT

Maximum Power at NMOT (Pmax)	430	434	438	442	446	450
Operating Voltage (VMP/V)	40.4	40.6	40.8	41.0	41.2	41.4
Operating Current (Imp/A)	10.65	10.69	10.74	10.78	10.83	10.87
Open-Circuit Voltage (Voc/V)	48.9	49.1	49.3	49.5	49.7	49.9
NMOT: Irradiance 800W/m ² , ambient temperature 20°C						

MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	144 (6*24)
Module Dimensions	2279 x 1134 x 30mm
Weight	33kgs
Front Glass	2.0mm tempered glass
Back Glass	2.0mm semi-tempered glass
Encapsulant Material	POE/EVA
Frame	30mm anodized aluminium alloy
Packing configuration	36 pcs/carton, 720 pcs/40HQ
Cable Cross Section Size	TUV: 4mm
Cables	Photovoltaic Technology Cable 4.0mm ² Cable Length 350mm or customised length
Junction Box	IP 68 Rated

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
NMOT	42±2°C