

Superior Solar PV Modules - Dependable British Brand - 30 Year British Warranty



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

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Model: AS-S144-M10N-XXX

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: 29kgs
- Dimensions: 2279× 1134× 35mm

1.00% First Year Power Degradation

0.40% Annual Degradation



30 YEAR WARRANTY



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY

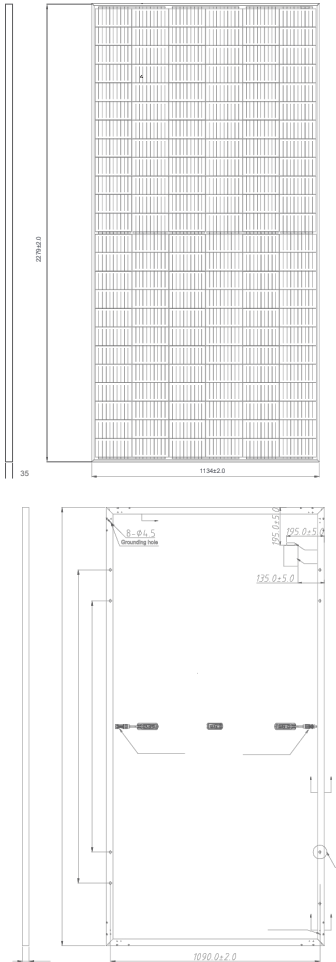


12 YEAR
PRODUCT
WARRANTY

* Specifications are subject to change without further notification

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ENGINEERING DRAWING



Model: AS-S144/M10N-XXX

565W-590W

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pmax/W)*	565	570	575	580	585	590
Operating Voltage (Vmp/V)	42.9V	43.1V	43.3V	43.5V	43.7V	43.9
Operating 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 η_m (%)	21.9%	22.1%	22.2%	22.4%	22.6%	22.8%

Power Tolerance 0~+5W

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: $\pm 3\%$

NMOT

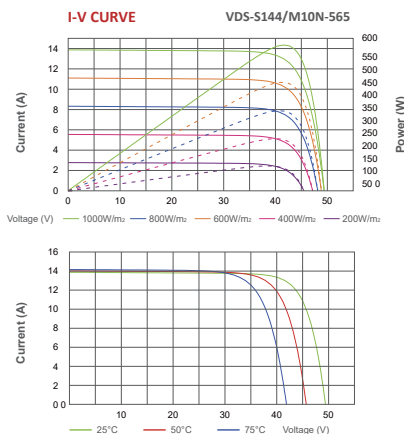
Maximum Power (Pmax/W)	430	434	438	442	446	450
Operating Voltage (Vmp/V)	40.4	40.6	40.8	41.0	41.2	41.4
Operating Current (Imp/A)	10.65	10.69	10.74	10.78	10.83	10.87
Open-Circuit Voltage (Voc/V)	48.9	49.1	49.3	49.5	49.7	49.9
Short-Circuit Current (Isc/A)	11.21	11.26	11.32	11.38	11.43	11.49

NMOT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1m/s

MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Arrangement	144 (6*24)
Module Dimensions	2279 x 1134 x 35mm
Weight	29kg
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Packing configuration	31 pcs/carton, 620 pcs/40HQ
Cable Cross Section Size	TUV: 4mm
Cable Length	Portrait 350mm/customised
Junction Box	IP 68 Rated

IV CURVE



OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC (IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	$\leq 0.1\Omega$
Safety Class	II
Resistance	$\geq 100M\Omega$
Connector	MC4 Compatible

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	42 $\pm$ 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 $\pm$ 2°C