



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

Model: AS-S144-M10H

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POWER OUTPUT

535-550W

182mm TOPCon Monofacial

10BB Half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga doped wafer, attenuation < 2% (1st year) / $\leq 0.55\%$ (Linear)

Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature

Lower LCOE

2% more power generation, lower LCOE

Excellent Anti-PID Performance

2 times of industry standard Anti-PID test by TUV SUD

IP68 junction box

High waterproof level

- Max Module Efficiency: 21.3%
 - No. of Cells: 144 (6x24) 182mm
 - Weight: 29kg
 - Dimensions: 2279mm x 1134mm x 35mm
 - Monocrystalline 182x182mm
- 2.00% First Year Power Degradation
- 0.45% Annual Degradation



30 YEAR WARRANTY



30 YEAR EUROPEAN PERFORMANCE WARRANTY



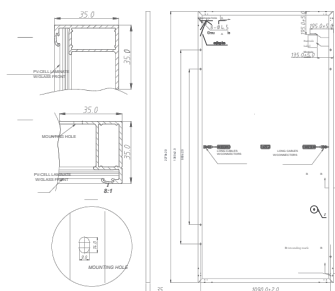
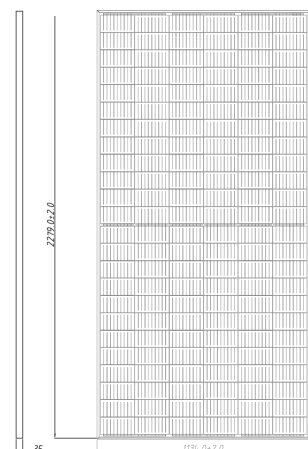
12 YEAR PRODUCT WARRANTY

* Specifications are subject to change without further notification

Model: AS-S144/M10H

535W-550W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS

Maximum Power P _{Max} (Wp)*	535	540	545	550
Operating Voltage (V _{mp} /V)	41.7	41.9	42.1	42.3
Operating Current (I _{mp} /A)	12.85	12.89	12.95	13.00
Open-Circuit Voltage (V _{oc} /V)	50.4	50.6	50.8	51.0
Short-Circuit Current (I _{sc} /A)	13.52	13.59	13.66	13.75
Module Efficiency η _m (%)	20.7	20.9	21.1	21.3
Power Tolerance-PMAX (W)	0/+5W			

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

NMOT

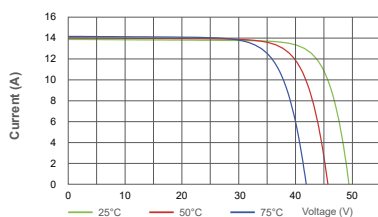
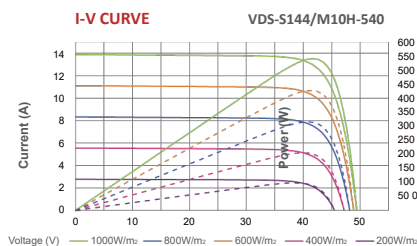
Maximum Power-P _{Max} (Wp)*	398	402	406	410
Maximum Power Voltage (V _{MP} /V)	39.2	39.4	39.6	39.8
Maximum Power Current (I _{mp} /A)	10.15	10.20	10.25	10.30
Open-Circuit Voltage (V _{oc} /V)	47.7	47.9	48.1	48.3

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

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline (182 x 182mm)
Cell Orientation	144 (6*24)
Module Dimensions	2279 x 1134 x 35mm
Weight	29kg
Front Glass	3.2mm AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
No. of Bypass Diodes	3/6
Cable Length	Portrait 350mm/customised
Cable cross section size	TUV: 4mm ²
Packing configuration	31pcs/carton, 620pcs/40HQ

I-V CURVES



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	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

OPERATING CONDITIONS

Nominal Module Operating Temperature	43±2°C
Temperature Coefficient of P _{max}	-0.34%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	0.040%/°C