



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

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Model: AS-S108-M10N-XXX

POWER OUTPUT

415 - 440W TOPCon Monofacial 182mm Cell Half cell

High Module Conversion Efficiency

Module efficiency up to 22.5% 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:
22.5%

Weight:
21 Kgs

Dimensions:
1724*1134*30 mm

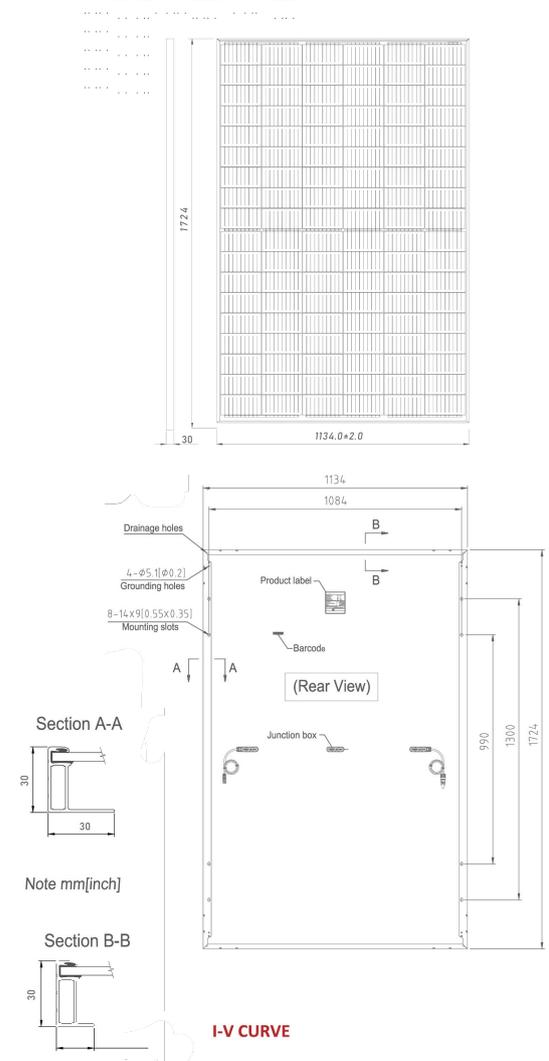
Monocrystalline
182 cells

1.00% First Year Power Degradation

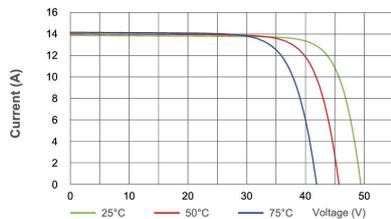
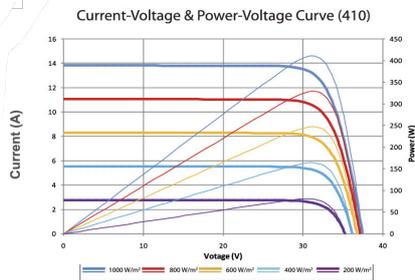
0.40% Annual Degradation



ENGINEERING DRAWING



I-V CURVE



Model: AS-S108-M10N

415-440W

ELECTRICAL CHARACTERISTICS

Maximum Power (Pmax/W)*	415	420	425	430	435	440
Operating Voltage (Vmp/V)	31.9	32.1	32.3	32.5	32.7	32.9
Operating Current (Imp/A)	13.01	13.09	13.16	13.24	13.31	13.38
Open-Circuit Voltage (Voc/V)	38.5	38.7	38.9	39.1	39.3	39.5
Short-Circuit Current (Isc/A)	13.72	13.81	13.91	14.01	14.10	14.19
Module Efficiency ηm (%)	21.2	21.5	21.7	22.0	22.3	22.5
Power Tolerance-PMAX (W)	0~+5					
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%						

ELECTRICAL DATA (NMOT)

Maximum Power (Pmax/W)	317	321	325	329	333	337
Operating Voltage (VMP/V)	30.0	30.2	30.4	30.6	30.8	31.0
Operating Current (Imp/A)	10.57	10.63	10.70	10.76	10.82	10.88
Open-Circuit Voltage (Voc/V)	36.4	36.6	36.8	37.0	37.2	37.4
Short-Circuit Current (Isc/A)	11.10	11.18	11.25	11.33	11.41	11.48
NMOT: Irradiance 800W/m ² , module temperature 20°C, AM=1.5, wind speed 1m/s						

MECHANICAL SPECIFICATION

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	108 (6*18)
Module Dimensions	1724 x 1134 x 30 mm
Weight	21kg
Front Glass	3.2 mm AR coating tempered glass
Encapsulant Material	POE/EVA
Cable Cross Section Size	TUV: 4mm ²
Cable Length	350mm or customised length
No. of Bypass Diodes	3/6
Packing configuration	36 pcs/carton, 936 pcs/40HQ
Frame	Anodised aluminium alloy
Junction Box	IP 68 Rated

OPERATING CONDITIONS

Maximum System Voltage	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

TEMPERATURE COEFFICIENT

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