



GSE Fire Tested & Approved



465-485W

182mm Half Cell, 120 Cells TOPCon Bifacial Solar Module

485W

Highest Power Output

22.4%

Module Efficiency

Product Advantages



High Module Conversion Efficiency

Module efficiency up to 22.4% 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)



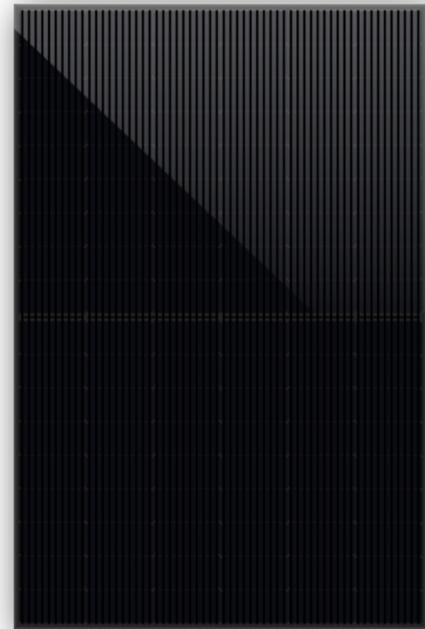
IP68 Junction Box

High Waterproof and Dustproof level



Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



Backed by a 30-Year British Warranty

- ✓ 30 Year Performance Warranty
- ✓ 15 Year Materials & Workmanship Warranty



LOW RISK BRITISH PROCUREMENT



BRITISH TECHNICAL SUPPORT



ALWAYS GRADE "A" CELLS



BRITISH QUALITY STANDARDS



UKS-S120-M10N-XXX-BG

ELECTRICAL DATA (STC)

Peak Power Watts-Pmax (Wp*)	465	470	475	480	485
Maximum Power Voltage-Vmp (V)	35.5	35.7	35.9	36.1	36.3
Maximum Power Current-Imp (A)	13.10	13.17	13.24	13.30	13.37
Open Circuit Voltage-Voc (V)	42.8	43.0	43.2	43.4	43.6
Short-Circuit Current (Isc/A)	13.83	13.91	13.99	14.08	14.16
Module Efficiency η m (%)	21.5%	21.7%	21.9%	22.2%	22.4%
Power Tolerance	0~+5W				

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

ELECTRICAL DATA (BNPI)

Peak Power-Pmax (Wp)*	510	515	520	525	530
Maximum Power Voltage-Vmp (V)	35.5	35.7	35.9	36.1	36.3
Maximum Power Current-Imp (A)	14.37	14.43	14.48	14.54	14.60
Open-Circuit Voltage (Voc/V)	42.8	43.0	43.2	43.4	43.6
Short-Circuit Current-Isc (A)	15.22	15.30	15.37	15.45	15.52

BNPI: Front side irradiance 1000W/m², backside irradiance 135W/m², module temperature 25°C, AM=1.5

ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp*)	357	361	365	369	373
Maximum Power Voltage-Vmp (V)	33.4	33.6	33.8	34.0	34.2
Maximum Power Current-Imp (A)	10.69	10.75	10.80	10.86	10.91
Open-Circuit Voltage (Voc/V)	40.5	40.7	40.9	41.1	41.3
Short-Circuit Current-Isc (A)	11.23	11.30	11.37	11.44	11.51

NMOT: Irradiance 800W/m², ambient temperature 20°C

Specifications may change without notice.

MECHANICAL DATA

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	120 Cells (6 x 20)
Module Dimensions	1909 x 1134 x 30mm
Weight	27.5 kg
Front Glass	2.0mm tempered glass
Back glass	2.0mm semi-tempered glass
Encapsulant Material	POE/EVA
Frame	30mm Anodized aluminium alloy
Packing configuration	36pcs/carton, 864 pcs/40HQ
Cables	Photovoltaic Technology Cable 4.0mm2 Cable Length 350mm or customised length
Junction Box	IP 68 Rated

Temperature Ratings

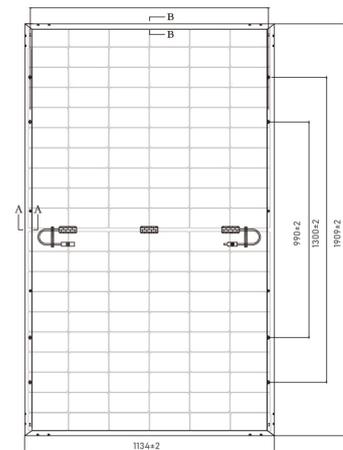
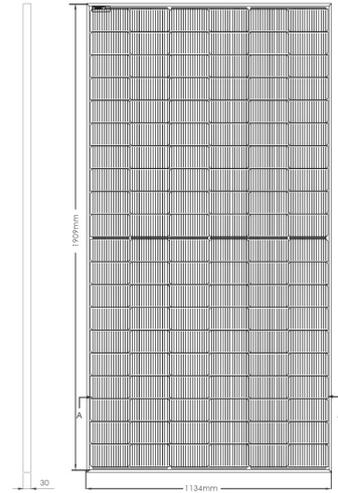
Nominal Module Operating Temperature	42 \pm 2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
NMOT	42 \pm 2°C

Maximum Ratings

Operational Temperature	-40~+85
Maximum System Voltage	1500DC (IEC)
Max Series Fuse Rating	25A

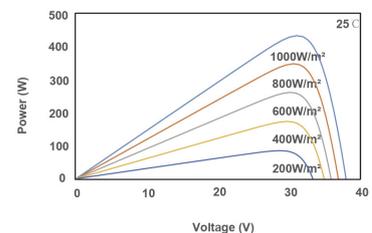
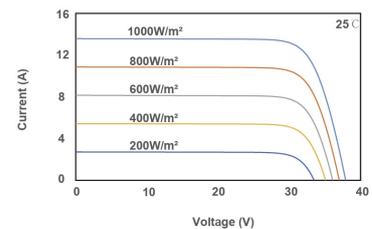
WEEE registration number (WPRN) is WEE/MM9084AA

1.00% First Year Power Degradation
0.40% Annual Degradation



I-V CURVE

Current-Voltage & Power-Voltage Curve (485)



Section A-A



Section B-B



Note mm

+44 (0)1753 910327 | info@uksol.uk | www.uksol.uk

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