



CERTIFIED

445W

182mm Half Cell, 108 Cells TOPCon Bifacial Solar Module

22.8%

Module
Efficiency

445W

Highest
Power Output

Product Advantages



High module conversion efficiency

Module efficiency up to 23.5% 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 condition, 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 level



Backed by a 30-Year British Warranty

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



Half Cell, MBB Technology

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



LOW RISK BRITISH
PROCUREMENT



BRITISH TECHNICAL
SUPPORT



ALWAYS GRADE
"A" CELLS



BRITISH QUALITY
STANDARDS



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UKS-S108-M10N-BG

UKSOL 445W Bifacial N-Type TOPCon Panel



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	445
Maximum Power Voltage-VMP (V)	33.1
Maximum Power Current-IMP (A)	13.44
Open Circuit Voltage-VOC (V)	39.7
Short Circuit Current-ISC (A)	14.27
Module Efficiency η_m (%)	22.8
Power Tolerance-PMAX (W)	0~+5

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

ELECTRICAL DATA (BNPI)

Peak Power-PMAX (Wp)*	490
Maximum Power Voltage-VMP (V)	33.1
Maximum Power Current-IMP (A)	14.80
Open Circuit Voltage-VOC (V)	39.7
Short Circuit Current-ISC (A)	15.76

BNPI: Irradiance 1000W/m², module temperature 25°C

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)*	341
Maximum Power Voltage-VMP (V)	31.2
Maximum Power Current-IMP (A)	10.93
Open Circuit Voltage-VOC (V)	37.6
Short Circuit Current-ISC (A)	11.55

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

MECHANICAL DATA

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	108 cells (6x18)
Module Dimensions	1724 x 1134 x 30mm
Weight	25.1kg
Front Glass	2.0mm tempered glass
Encapsulant Material	POE/EVA
Back Glass	2.0mm semi-tempered glass
Frame	30mm Anodized Aluminium Alloy
Junction Box	IP68 Rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	42°C (±2°C)
Temperature Coefficient of PMAX	-0.29%/°C
Temperature Coefficient of VOC	-0.25%/°C
Temperature Coefficient of ISC	+0.046%/°C

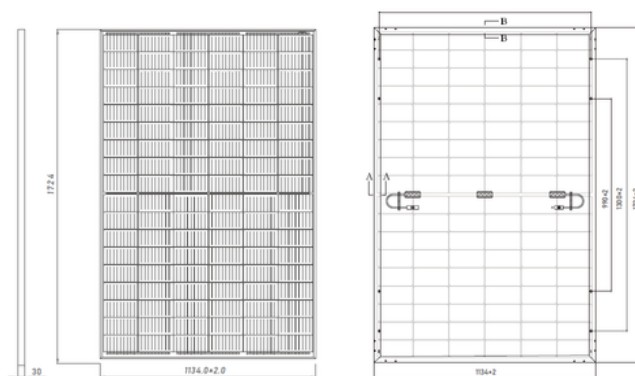
(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

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

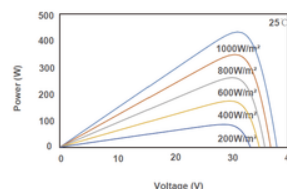
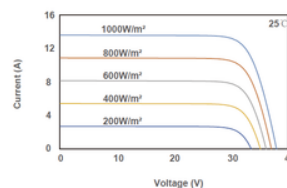
PACKAGING CONFIGURATION

Modules per box	36 pieces
Modules per 40' container	936 pieces



I-V CURVE

Current-Voltage & Power-Voltage Curve (430)



Section A-A



Section B-B



Note mm



UK
CA



30 YEAR
BRITISH
WARRANTY

WEEE registration number (WPRN) is WEE/MM9084AA

1.00% First Year Power
Degradation

0.40% Annual Degradation

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