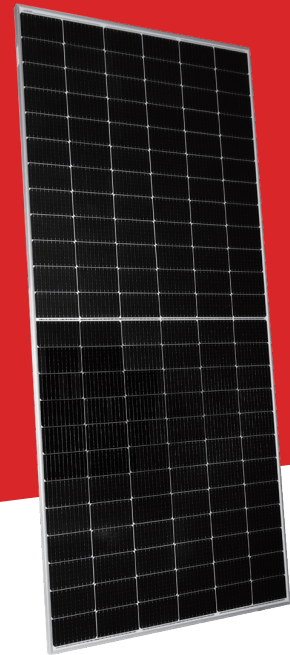


UKS-S144/M10H-xxx-BG







182mm Bifacial Series

530-550w

144-CELL HALF BIFACIAL MODULE



Product Advantages

- 
High module conversion efficiency
 Module efficiency up to 21.3% achieved through advanced cell technology and manufacturing process
- 
Current sorting process
 Up to 2% power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output
- 
Lower operating temperature
 Lower operating temperature and temperature coefficient increases 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)*
- 
Withstanding harsh environment
 Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline
- 
IP68 junction box
 High waterproof level

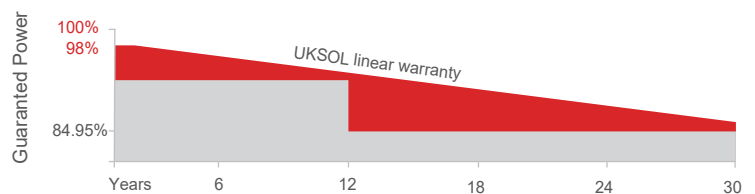
21.3%

Module efficiency

550W

Highest power output

Performance Warranty



-2.00%

First year power degradation

-0.45%

Annual degradation

12
Years

Materials and workmanship warranty

30
Years

Linear power warranty



LOW RISK BRITISH
PROCUREMENT



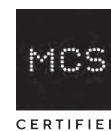
BRITISH TECHNICAL
SUPPORT



ALWAYS GRADE
"A" CELLS

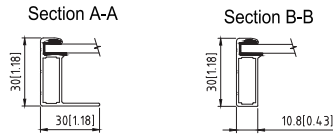
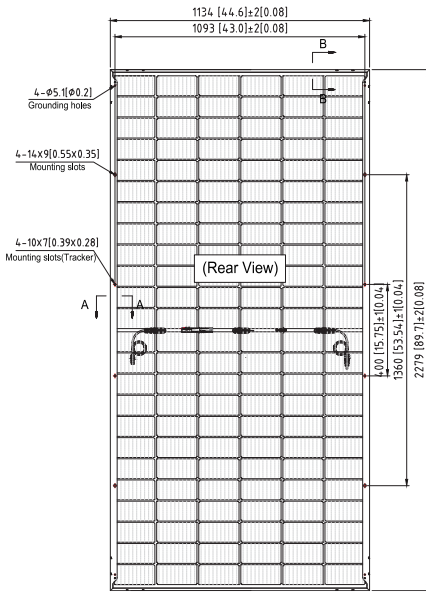


BRITISH QUALITY
STANDARDS

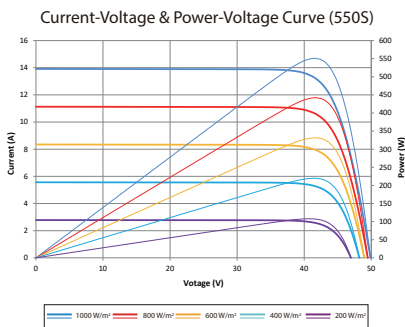


UKS-S144/M10H-xxx-BG

TECHNICAL DRAWINGS



Note:mm[inch]



Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	20
Pieces per container	720
Packaging box dimensions	2310x1130x1255 mm
Packaging box weight	1245 kg

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

	530	535	540	545	550
Maximum Power (Pmax/W)	530	535	540	545	550
Operating Voltage (Vmpp/V)	41.39	41.57	41.75	41.87	42.05
Operating Current (Impp/A)	12.81	12.87	12.94	13.02	13.08
Open-Circuit Voltage (Voc/V)	49.24	49.39	49.54	49.69	49.88
Short-Circuit Current (Isc/A)	13.76	13.83	13.89	13.96	14.01
Module Efficiency η m(%)	20.5	20.7	20.9	21.1	21.3

Performance at NMOT

	400.6	404.3	408.0	411.5	415
Maximum Power (Pmax/W)	400.6	404.3	408.0	411.5	415
Operating Voltage (Vmpp/V)	38.2	38.4	38.6	38.7	38.9
Operating Current (Impp/A)	10.47	10.53	10.58	10.63	10.67
Open-Circuit Voltage (Voc/V)	46.3	46.4	46.5	46.7	46.9
Short-Circuit Current (Isc/A)	11.02	11.08	11.13	11.18	11.22

STC: Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20 °C, Air Mass AM1.5, Wind Speed 1m/s

Electrical Characteristics with Different Rearside Power Gain (Reference to 540 W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	567	621	675
Optimum Operating Voltage (Vmp)	41.8	41.8	41.9
Optimum Operating Current (Imp)	13.59	14.88	16.18
Open Circuit Voltage (Voc)	49.5	49.5	49.6
Short Circuit Current (Isc)	14.48	15.86	17.24
Module Efficiency	21.9	24.0	26.1

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	32.8 kgs (72.3 lbs.)
Front \ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , (-) 350 mm and (+) 160 mm in length or customized length
Refer. Bifaciality Factor	(70 ± 5) %