



UKSOL

UKS-S144/M10H 182mm HALF CELL SERIES

530-550W

144-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE



Product Advantages



10BB half-cut cell technology

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

21.3%

Module efficiency

550W

Highest power output



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

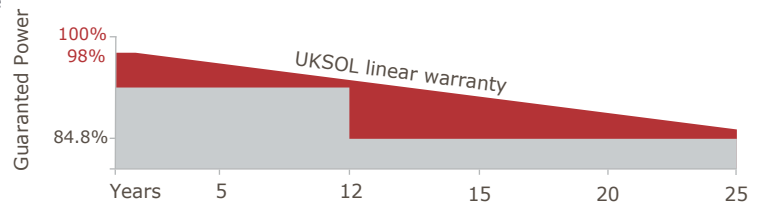
2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level

Product Guarantee



Standard linear power guarantee

UKSOL linear power guarantee

-2.00%

First year power degradation

-0.55%

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

Electrical Characteristics

STC	530	535	540	545	550
Maximum Power at STC (Pmax)*	530W	535W	540W	545W	550W
Optimum Operating Voltage (Vmp)	40.8V	41.0V	41.2V	41.4V	41.6V
Optimum Operating Current (Imp)	13.00A	13.05A	13.11A	13.17A	13.23A
Open Circuit Voltage (Voc)	49.0V	49.2V	49.4V	49.6V	49.8V
Short Circuit Current (Isc)	13.76A	13.81A	13.87A	13.93A	13.99A
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.3%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000V/1500 V DC (IEC)				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+5W				

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

NMOT	530	535	540	545	550
Maximum Power at NMOT (Pmax)	395W	398W	402W	406W	410W
Optimum Operating Voltage (Vmp)	38.0V	38.2V	38.4V	38.6V	38.8V
Optimum Operating Current (Imp)	10.40A	10.44A	10.49A	10.54A	10.58A
Open Circuit Voltage (Voc)	45.9V	46.1V	46.3V	46.4V	46.6V
Short Circuit Current (Isc)	11.09A	11.13A	11.18A	11.23A	11.28A

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

Temperature Characteristics

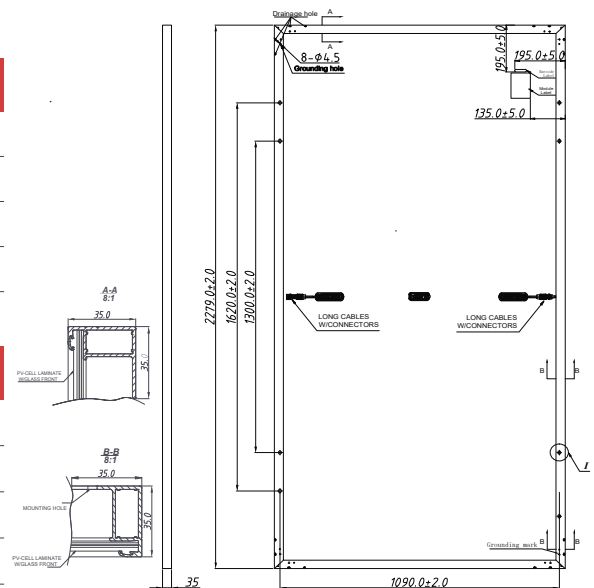
Nominal Module Operating Temperature(NMOT)	43± 2 °C
Temperature Coefficient of Pmax	-0.34 %/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040%/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm (10BB)
No. of Cells	144 (6 × 24)
Dimensions	2279× 1134 × 35 mm
Weight	29kgs
Front Glass	3.2 mm AR Coating Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , cable length 350mm or customized length

Packing Configuration

Container	20'GP	40'HC
Pieces per pallet	31	31
Pallets per container	5	20
Pieces per container	155	620



Current-Voltage & Power-Voltage Curve (540)

