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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**UKSOL Ltd.  
UKS-6M PERC MONO (350-375W)  
UKS 6M 375**

Also available on the web at  
[EnergyPal.com/uksol-ltd-solar-panels/uks-6m-375](http://EnergyPal.com/uksol-ltd-solar-panels/uks-6m-375)



UKSOL

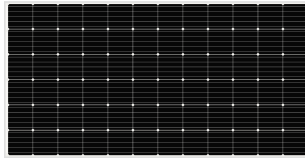


30 YEAR  
BRITISH  
WARRANTY

## A BRITISH BRAND OF HIGH QUALITY SOLAR MODULES

UKSOL solar PV modules are always produced with the latest high quality grade A solar cells to deliver the maximum return on your investment. Every UKSOL solar module comes with a British 12 year product warranty and a 30 year performance warranty. Technical and warranty support is provided by our dedicated customer care team based near London.

## MODEL UKSOL UKS-6M MONO PERC MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

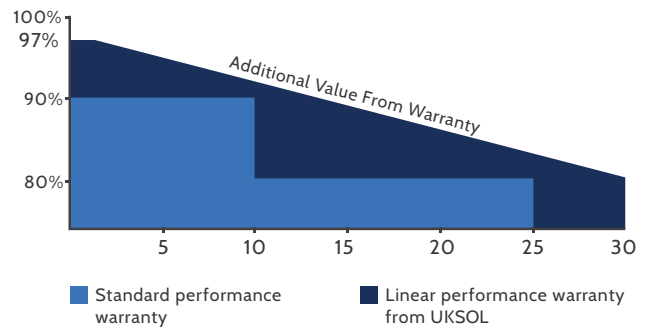
- High module conversion efficiency up to 19.33% by using Passivated Emmitter Rear Contact (PERC) technology
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3%. High ammonia and salt mist resistance.
- PID Free. Fire tested. Risk free procurement and support from the UK.
- Fully automated production | Special AR gloss coating 5 bus bars for best performance

### QUALITY CERTIFICATES

- TUV Sud tested IEC61215 ed1, IEC61730ed 2, IEC62716, IEC61701, TUV Sud tested. FIDE Mexico approved. Chile approved. Retie (Colombia). Special PI-Institut Berlin test report SONCAP certificate for Nigeria. InMetro for Brazil Intertek testing for Kenya, Nigeria and Mali
- ISO9001:2008: Quality management system  
ISO14001:2004: Environmental management system  
OHSAS18001:2007: Occupational health and safety management system. Fire safety class C (according to UL790) Safety class II. Maximum system voltage 1500v DC

### BRITISH WARRANTIES

- 12 year product warranty.
- Limited power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



- LOW RISK BRITISH PROCUREMENT
- BRITISH TECHNICAL SUPPORT
- ALWAYS GRADE "A" CELLS
- BRITISH QUALITY STANDARDS
- BERLIN PI TESTED
- TUV SUD PHOTO VOLTAICS

## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (Pmax)	350W	355W	360W	365W	370W	375W
Open Circuit Voltage (Voc)	47.2V	47.4V	47.6V	47.8V	48.0V	48.2V
Short Circuit Current (Isc)	9.57A	9.64A	9.71A	9.78A	9.85A	9.92A
Voltage at Nominal Power (Vmp)	38.6V	38.8V	39.0V	39.2V	39.4V	39.6V
Current at Nominal Power (Imp)	9.07A	9.15A	9.24A	9.32A	9.40A	9.47A
Module Efficiency (%)	18.04	18.30	18.55	18.81	19.07	19.33
Operating Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC					
Fire Resistance Rating	Type II/Class C (UL790)					
Maximum Series Fuse Rating	15A					
STC : Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5						

## ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (Pmax)	232W	236W	239W	243W	247W	251W
Open Circuit Voltage (Voc)	42.0V	42.1V	42.2V	42.3V	42.4V	42.5V
Short Circuit Current (Isc)	7.23A	7.32A	7.41A	7.50A	7.60A	7.70A
Voltage at Nominal Power (Vmp)	33.7V	33.8V	33.9V	34.0V	34.1V	34.2V
Current at Nominal Power (Imp)	6.89A	6.98A	7.05A	7.15A	7.25A	7.34A
NOCT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1 m/s						

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 156.75x156.75mm (6x6 inches)
Number of Cells	72 (6x12)
Module Dimensions	1956x992x40mm (77.01x39.06x1.57 inches)
Weight	22.5kg (49.6 lbs)
Front Cover	3.2mm (0.13 inches) low-iron tempered Glass
Frame	Anodized
Junction Box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 1000mm (39.37 inches)
Connector	MC4 or MC4 Compatible

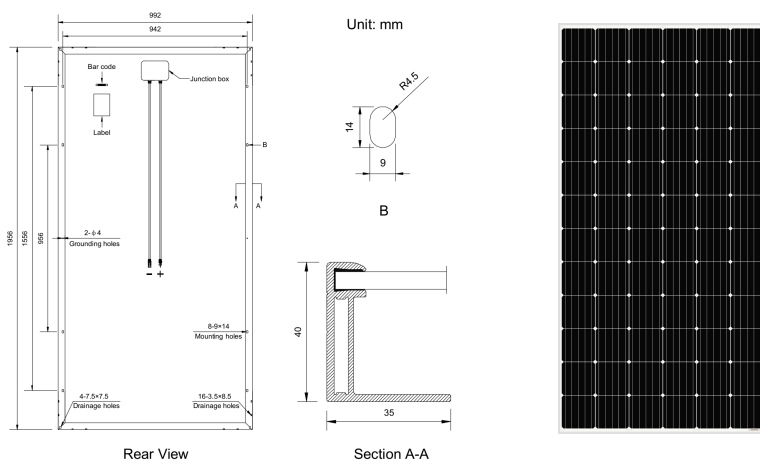
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C + 2°C
Temperature Coefficient Of Pmax	-0.39% / °C
Temperature Coefficient Of Voc	-0.29% / °C
Temperature Coefficient Of Isc	0.052% / °C

## PACKAGING

Standard Packaging	26 pcs / Pallet
Module Quantity per 20' Container	260pcs
Module Quantity per 40' Container	572/627 HQ

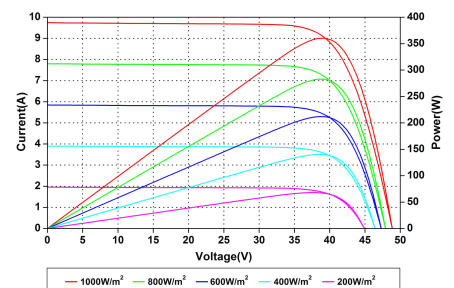
## ENGINEERING DRAWINGS



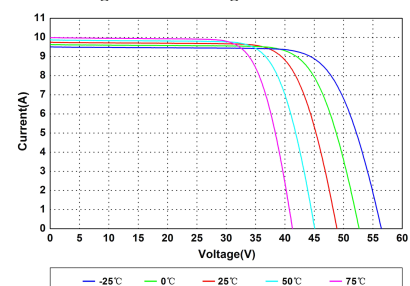
Specifications in this datasheet are subject to change without prior notice.

Also available in all-black.

## IV CURVES



Current-Voltage & Power-Voltage Curves At Different Irradiances



Current-Voltage Curves At Different Temperatures