



**UK  
SOLAR POWER**

**UK300M72**

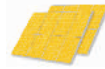
A British Brand of High Quality Solar Modules



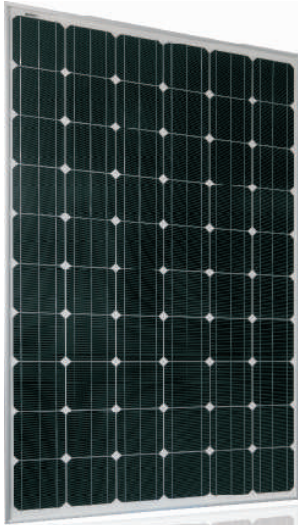
## Recommended For













Commercial Roof



Utility Scale Ground Mounted



## UK300M72 Mono Crystalline Photovoltaic Module

-  Plus power tolerance(0-3%) to ensure the high reliability of power output
-  Module certified by TUV
  -  For SNOW ZONE III, withstand high level of wind loads(2400Pa) and snow loads(5400Pa)
  -  For PID test. No Potential Induced Degradation cause by High Voltage Stress
  -  For Salt mist corrosion, ammonia corrosion test
-  Anti-reflective, hydrophobic layer of module surface(proprietary 800° C online coating technology) improves light absorption and reduces surface dust
-  Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting system
-  Special PV Module Insurances by world leading insurance company guarantees the benefit of PV investors and PV module users
-  Junction box and bypass diodes guarantee the module free of overheating and "hot spot effect"
-  Modules' excellent performance under low light environments(mornings, evenings, and cloudy days) create better kWh/kW ratio and produce average 2-3% more electricity in the field

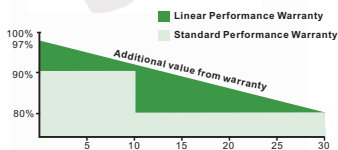
## Guaranteed Performance\*\* Grade A

**12** Years Warranty  
limited product warranty

**12** Years Warranty  
91.2% of the nominal Power Output

**30** Years Warranty  
80.6% of the nominal Power Output

Free module recycling through membership in the PV cycle Association



## Choosing UK SOLAR POWER

- **HIGHEST QUALITY** - All our panels are produced to the Highest European and very strict British Standard regulations. Using only the best quality materials, our panels are designed to deliver the maximum return on your investment, whilst service and support is provided from our UK offices based in London.
- **LONGEST GUARANTEES IN THE INDUSTRY** - UK Solar Power Grade 'A' modules are supported by a British 12 year product warranty and a 30 year performance warranty. The performance warranty guarantees 90% of normal output for 12 years and 80% of normal output up to 30 years!
- **BRITISH BACKED** - Guarantees with a no quibble replacement policy!



## UK SOLAR POWER LTD

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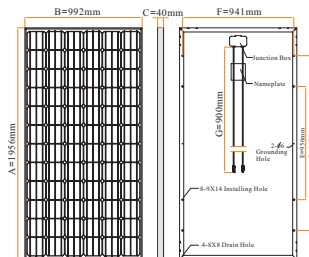
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### MECHANICAL SPECIFICATION

<b>Cell Type</b>	Mono crystalline 156x156mm(6 inches)
<b>Number of cells</b>	72(6x12)
<b>Dimensions(AxBxC)</b>	1956x992x40mm
<b>Weights</b>	20.5kg
<b>Front Glass</b>	3.2 mm Low iron tempered glass
<b>Frame</b>	Anodized aluminum
<b>Junction Box</b>	IP 65, with bypass diodes
<b>Connector</b>	Mc4 compatible
<b>Output Cables</b>	TUV, length 900mm, 4.0mm <sup>2</sup>

### MECHANICAL DRAWINGS



### ELECTRICAL CHARACTERISTICS

#### PERFORMANCE AT STANDARD TEST CONDITION(STC:1000W/m<sup>2</sup>, 25°C, AM1.5)

Module Series	UK300M72
Maximum Power at STC(P <sub>max</sub> )	300W
Short Circuit Current(I <sub>sc</sub> )	8.81A
Open Circuit Voltage(V <sub>oc</sub> )	44.7V
Maximum Power Current(I <sub>mpp</sub> )	8.29A
Maximum Power Voltage(V <sub>mpp</sub> )	36.2V
Encapsulated Cell Efficiency	17.60%
Module Efficiency	15.46%
Power Tolerance	0/+3%

#### PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE(NOTE:800W/m<sup>2</sup>, 44±2°C, AM1.5)

Maximum Power(P <sub>max</sub> )	220W
Short Circuit Current(I <sub>sc</sub> )	7.43A
Open Circuit Voltage(V <sub>oc</sub> )	41.5V
Maximum Power Current(I <sub>mpp</sub> )	6.81A
Maximum Power Voltage(V <sub>mpp</sub> )	32.2V

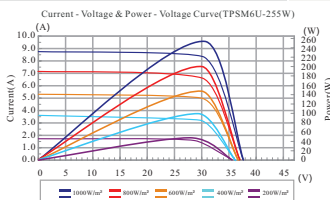
The typical relative change in module efficiency at an irradiance of 200W/m<sup>2</sup> in relation to 1000W/m<sup>2</sup> (both at 25°C and AM 1.5 spectrum) is less than 6%

### TEMPERATURE CHARACTERISTICS

Nominal Operating Cel Temperature(NOCT)	44±2°C
Temperature Coefficient of P <sub>max</sub> (γ)	-0.41%/K
Temperature Coefficient of V <sub>oc</sub> (β)	-0.32%/K
Temperature Coefficient of I <sub>sc</sub> (α)	0.05%/K

### PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	25
Pallets per container	28
Pieces per container	742



### SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 1000V
Maximum Series Fuse	16A
Maximum reverse current	21.5A
Increased snowload acc. to IEC 61215	5400Pa
Operating Temperature	-40~+85°C
Number of bypass diodes	3