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Solar Panel Guide Specification Data Sheet

**UK Solar Power Ltd
UK310-350M72
UK340M72**

Also available on the web at
EnergyPal.com/uk-solar-power-ltd-solar-panels/uk340m72

BRITISH BRAND BRITISH QUALITY BRITISH GUARANTEES



UKSOLARPOWER UK310-350M72 Monocrystalline Module

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 maximum return on investment whilst service and support is provided from our UK offices.

A FRIENDLY CUSTOMER SERVICE THAT SPEAKS YOUR LANGUAGE

LONGEST GUARANTEES IN THE INDUSTRY – UK SOLAR POWER GRADE 'A' PANELS are supported by a British 12-year product warranty and a 30 year performance warranty. The performance warranty provides for 91.2% of normal output for 12 years and 80.6% of normal output up to 30 years.

BRITISH BACKED GUARANTEE – YOU & YOUR CUSTOMERS CAN TRUST

Advanced performance & proven advantages

- ✓ High module conversion efficiency up to 18.44% by using highly efficient solar cells and advanced manufacturing technology.
- ✓ Low degradation and excellent performance under high-temperatures and low light conditions.
- ✓ Robust aluminum frame ensures the modules withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✓ High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- ✓ Positive power tolerance of 0 ~ +3 %.
- ✓ Potential induced degradation (PID) resistance.

Quality Certificates

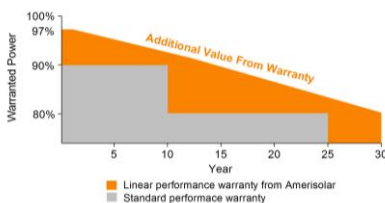
- ✓ IEC61215, IEC61730, IEC62716, IEC61701, CE, ETL(USA),CQC, CGC, JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible (CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ✓ ISO9001:2008: Quality management system
- ✓ ISO14001:2004: Environmental management system
- ✓ OHSAS18001:2007: Occupational health and safety management system

Special Warranties

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



Certificates apply jointly with the uksolarpower factory



Linear performance warranty from UKSOLARPOWER

ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (P_{max})	310W	315W	320W	325W	330W	335W	340W	345W	350W
Open Circuit Voltage (V_{OC})	45.7V	45.8V	45.9V	46.0V	46.1V	46.2V	46.3V	46.4V	46.5V
Short Circuit Current (I_{SC})	8.83A	8.92A	9.02A	9.12A	9.21A	9.33A	9.45A	9.57A	9.68A
Voltage at Nominal Power (V_{mp})	37.1V	37.2V	37.3V	37.4V	37.5V	37.6V	37.7V	37.8V	37.9V
Current at Nominal Power (I_{mp})	8.36A	8.47A	8.58A	8.69A	8.80A	8.91A	9.02A	9.13A	9.24A
Module Efficiency (%)	15.98	16.23	16.49	16.75	17.01	17.26	17.52	17.78	18.04
Operating Temperature	-40°C to +85°C								
Maximum System Voltage	1000V DC								
Fire Resistance Rating	Type 1 (in accordance with UL1703)/Class C (IEC61730)								
Maximum Series Fuse Rating	15A								

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (P_{max})	228W	232W	236W	239W	243W	247W	250W	254W	258W
Open Circuit Voltage (V_{OC})	42.1V	42.2V	42.3V	42.4V	42.5V	42.6V	42.7V	42.8V	42.9V
Short Circuit Current (I_{SC})	7.15A	7.23A	7.31A	7.39A	7.46A	7.56A	7.65A	7.75A	7.84A
Voltage at Nominal Power (V_{mp})	33.8V	33.9V	34.0V	34.1V	34.2V	34.3V	34.4V	34.5V	34.6V
Current at Nominal Power (I_{mp})	6.75A	6.85A	6.94A	7.01A	7.11A	7.20A	7.27A	7.37A	7.46A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 5BB 156.75x156.75mm (6x6inches)
Number of cells	72 (6x12)
Module dimensions	1956x992x40mm (77.01x39.06x1.57inches)
Weight	22.5kg (49.6lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm ² (0.006inches ²), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

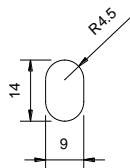
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.41%/°C
Temperature Coefficients of V_{OC}	-0.31%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

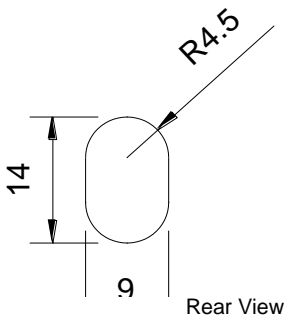
Standard packaging	26pcs/pallet
Module quantity per 20' container	260pcs
Module quantity per 40' container	572pcs(GP)/616pcs(HQ)

ENGINEERING DRAWINGS

Unit: mm



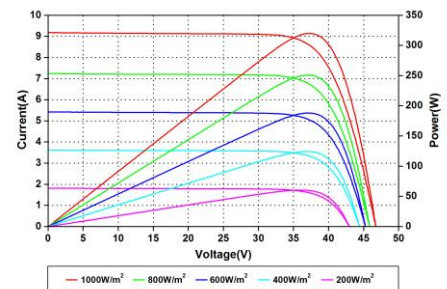
B



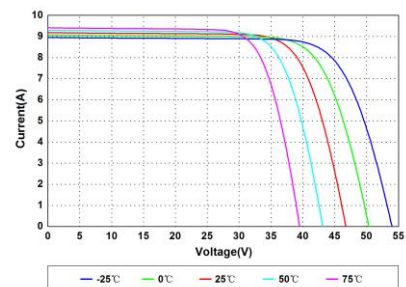
Rear View

Section A-A

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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