UNIVERSAL SOLAR USGXXX-60 SERIES



230 - 250 Watt

POLYCRYSTALLINE SOLAR MODULE

Features



High Module Conversion Efficiency

Up to 15.6%, through superior cell technology and leading manufacturing capability



Proven Tolerance

Proven field tolerance <u>+</u>3% ensures reliable power output



Self Clean Effect

Anti-reflective, hydrophobic layer improves light absorption and reduces surface dust



Excellent Weak Light Performance

Excellent performance under low light environments to capture early morning and late evening sunlight



World Class Manufacturing Facilities

Our manufacturing facilities are ISO certified for Quality assurance and delivers world class products

Certifications and standards:





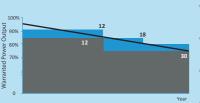




Trust USGXXX-60 Series for Reliable Performance Over

- World's trusted manufacturer of crystalline silicon photovoltaic modules
- Un-rivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards
- Tested for harsh environment

Industry Leading Australian Local Warranty



- 30-year linear power output warranty: 12 years/91.2%, 30 years/80.6% **
- Warrants more power than the market standard over 25 years
- 12-year product workmanship Warranty
- Based on nominal power (Pnom)
- * Please refer to Universal solar panel Standard Module Installation Manual for details.
- ** Please refer to Universal solar Panel Product Warranty for details.



Superior Frame Design

Specially designed drainage holes and rigid construction prevent frames from deforming. Screw less frame design for a long term durability.



Most Modern IP65 Rated Junction Box

IP65 rated Supports any orientation installation. High performance low resistance connectors ensure maximum module power output for highest energy production.

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UNIVERSAL SOLAR USGXXX-60 SERIES 946[37.0] Drainage holes Product label **IRRADIATION IV CURVES OF USP-P6-60 TEMPERATURE IV CURVES OF USP-P6-60** 1000W/m² -14×9[0.55×0.35] Mounting slots 8 places 8 800W/m² 600W/m² 860[33.86] 1360[53.54] 1640[64.57] 400W/m² 200W/m² (Back View) 10 15 20 Voltage(V) 0 15 20 Voltage(V) 25 30 35 20 25 30 35

TEMPERATURE RATINGS						
Pmax Temperature Coefficient	%/°C	-0.47				
Voc Temperature Coefficient	%/°C	-0.32				
Isc Temperature Coefficient	%/°C	+0.04				
Operating Temperature	°C	-40 ~ +85				
Nominal Operating Cell Temperature (NOCT)	°C	45 ± 2				

Section A-A

11 [0.4]

12 [0.1]

(Front View)

Note: mm [inch]

All UNITS OF MODEL USGXXX-60 SERIES PANELS MADE IN CHINA

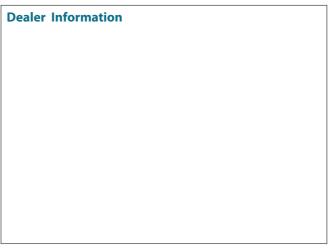
ELECTRICAL CHARACTERISTICS						
Module Type	Unit	USG250-60	USG245-60	USG240-60	USG235-60	USG230-60
Rated Power at STC (Pmp)	W	250	245	240	235	230
Power tolerance	%	<u>+</u> 3				
Cell Efficiency (nc)	%	17.9	17.5	17.2	16.8	16.5
Minimum Module Efficiency (nm)	%	15.6	15.2	14.9	14.6	14.3
Maximum Power Voltage (Vmp)	V	30.3	30.2	30.0	30.0	29.9
Maximum Power Current (Imp)	А	8.35	8.17	8.0	7.83	7.67
Open Circuit Voltage (Voc)	V	37.2	37.2	37.2	37.1	37.0
Short Circuit Current (Isc)	А	9.58	9.39	9.20	9.01	8.82
Maximum System Voltage	V	1000				
Maximum Series Fuse Rating	A	15				

STC: Irradiance 1000 W/m2, Module Temperature 25° C, Air Mass 1.5

MECHANICAL CHARACTERISTICS			
External Dimension	1640 × 990 × 50 mm		
Weight	20.0 kg		
Solar Cells	60 pieces Polycrystalline 156 × 156 mm		
Front glass	3.2 mm tempered low iron glass		
Frame	Anodized / Electrophoretic Aluminium		
Junction Box	IP65 rated		
Output Cables	4.0 mm2, symmetrical lengths 900 mm		
Connector	Cixi Yineng Photovoltaic Technology		

QUSG
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PACKAGING				
Modules Per Pallet	28			
Pallet Dimension	1650 x 1115 x 995 mm			
Pallet Weight	570 kg			



Specifications are subject to change without further notification