# SUNPOWER

## **230 SOLAR PANEL**

EXCEPTIONAL EFFICIENCY AND PERFORMANCE

### **BENEFITS**

#### **Highest Efficiency**

Panel efficiency of 18.5% is higher than any commercially available panel of similar size.

#### **More Power**

SunPower 230 delivers up to 50% more power per unit area than conventional solar panels and 100% more than thin film solar panels.

#### **Reduced Installation Cost**

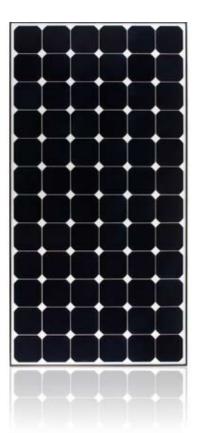
More power per panel means fewer panels per install. This saves both time and money.

#### **Reliable and Robust Design**

Proven materials, tempered front glass, and a sturdy anodized frame allow panel to operate reliably in multiple mounting configurations.



SPR-230-WHT



The SunPower 230 Solar Panel provides today's highest efficiency and performance. Utilizing 72 next generation SunPower all back-contact solar cells and an optimized panel design, the SunPower 230 delivers an unprecedented total panel conversion efficiency of 18.5%. The 230 panel's reduced voltage-temperature coefficient and exceptional low-light performance attributes provide outstanding energy delivery per peak power watt.

#### SunPower's High Efficiency Advantage - Up to Twice the Power

Comparable systems covering 1000 m <sup>2</sup> / 10,750 ft <sup>2</sup>				
	Thin Film	Conventional	SunPower	
Watts / Panel	65	165	230	
Efficiency	9.0%	12.0%	18.5%	
kWs	90	120	185	

 $(\epsilon)$ 







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Electrical Data Measured at Standard Test Conditions (STC): irradiance of 1000/m², air mass 1.5 g, and cell temperature 25° C				
Peak Power (+/-5%)	Pmax	230 W		
Rated Voltage	Vmp	41.0 V		
Rated Current	Imp	5.61 A		
Open Circuit Voltage	Voc	48.7 V		
Short Circuit Current	lsc	5.99 A		
Maximum System Voltage	IEC, UL	1000 V, 600 V		
Temperature Coefficients				
	Power	–0.38% /°C		
	Voltage (Voc)	–132.5 mV/°C		
	Current (Isc)	3.5 mA/°C		
Series Fuse Rating		20 A		
Peak Power per Unit Area		185 W/m², 17.2 W/ft²		

**Mechanical Data** 

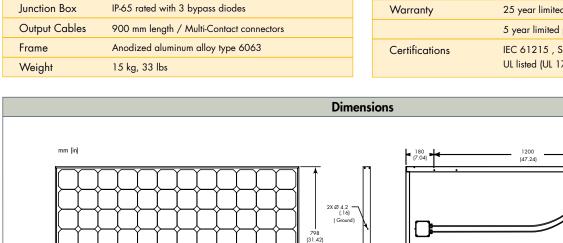
3.2mm (1/8 in) tempered

72 SunPower all back-contact monocrystalline

.0	
.0 1000 W/m <sup>2</sup>	
.0 800 W/m <sup>2</sup>	
.0 800 W/m <sup>2</sup> .0 500 W/m <sup>2</sup>	
.0 500 W/m <sup>2</sup>	
.0	
.0	1000 W/m² at 50 °C

Current/voltage characteristics with dependence on irradiance and module temperature.

Tested Operating Conditions				
Temperature	–40° C to +85° C (–40° F to +185° F)			
Max load	240 kg/m² (2400 Pascals) front and back			
Impact Resistance	Hail – 25mm (1 in) at 23 m/s (52 mph)			
Warranty and Certifications				
Warranty	25 year limited power warranty			
	5 year limited product warranty			
Certifications	IEC 61215 , Safety tested IEC 61730; UL listed (UL 1703), Class C Fire Rating			



#### 46 (1.81) 1559 (61.39) Ø 4.2 (.16) (Ground)

### CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. Go to www.sunpowercorp.com/panels for details

#### **About SunPower**

Solar Cells

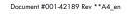
Front Glass

SunPower designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50 percent more power than conventional solar cells. Our high-performance solar panels, roof tiles and trackers deliver significantly more energy than competing systems.

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915 (36.02)

8X Ø 66126



Ø 4 2 I 16

322 (12.69