SUNPOWER

230 SOLAR PANEL

EXCEPTIONAL EFFICIENCY AND PERFORMANCE

BENEFITS

Highest Efficiency

SunPower[™] Solar Panels are the most efficient photovoltaic panels on the market today.

More Power

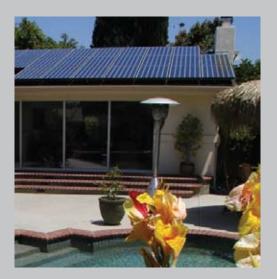
Our panels produce more power in the same amount of space—up to 50% more than conventional designs and 100% more than thin film solar panels.

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-U



The SunPower[™] 230 Solar Panel provides today's highest efficiency and performance. Utilizing 72 all back-contact solar cells, the SunPower 230 delivers a total panel conversion efficiency of 18.5%. The 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

	Thin Film	Conventional	SunPower
Peak Watts / Panel	65	170	230
Efficiency	9.0%	13.0%	18.5%
Peak Watts / ft² (m²)	8 (90)	12 (130)	17 (185)

About SunPower

SunPower designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50% 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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Electrical Data

Measured at Standard Test Conditions	(STC): irradiance of	$1000M/m^2$ AM 1.5	and call tomporature 25° C

Measured of Signature Less Conditions (STC). Individuce of 100000/mm, AVV11.5, and cell temperature 25°C		
Peak Power (+/-5%)	P _{max}	230 W
Rated Voltage	V _{mpp}	41.0 V
Rated Current	I _{mpp}	5.61 A
Open Circuit Voltage	V _{oc}	48.7 V
Short Circuit Current	I _{sc}	5.99 A
Maximum System Voltage	UL	600 V
Temperature Coefficients		
	Power	-0.38% / K
	Voltage (V _{oc})	-132.5mV / K
	Current (I _{sc})	3.5mA / K
NOCT		45° C +/-2° C
Series Fuse Rating		20 A

Mechanical Data

High transmission tempered glass

IP-65 rated with 3 bypass diodes Dimensions: 32 x 155 x 128 (mm)

33.1 lbs. (15.0 kg)

72 SunPower all-back contact monocrystalline

Anodized aluminum alloy type 6063 (black)

1000mm length cables / MultiContact (MC4) connectors

Solar Cells

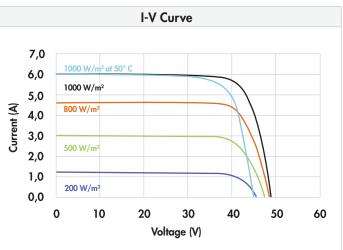
Front Glass

Junction Box

Output Cables

Frame

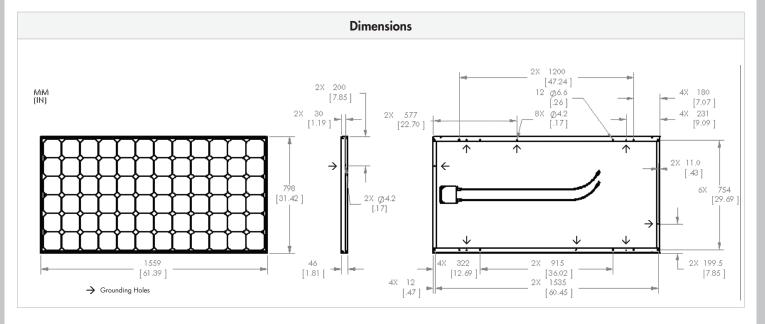
Weight



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

	Tested Operating Conditions
Temperature	-40° F to +185° F (-40° C to + 85° C)
Max load	113 psf 550kg/m² (5400 Pa) front – e.g. snow; 50 psf 245kg/m² (2400 Pa) front and back – e.g. wind
Impact Resistance	Hail 1 in (25 mm) at 52mph (23 m/s)

Warranties and Certifications	
Warranties	25 year limited power warranty
	10 year limited product warranty
Certifications	Tested to UL 1703. Class C Fire Rating



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Visit sunpowercorp.com for details

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