



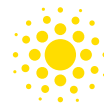
Westinghouse | Solar



sun for everyone™



# solar panel AC-230/235



Westinghouse Solar Power Systems

For more than a century, Westinghouse has stood for reliability and innovation — developing solutions that deliver safe and efficient electrical energy while introducing smart products for the home that bring comfort and convenience to the lives of millions. Today, that tradition continues with Westinghouse Solar Power Systems which are safer, more powerful, and more reliable than any other, while backed by the proven quality of the Westinghouse name.

The Westinghouse Solar AC solar panel leverages the very latest design and advances in technology to yield maximum power, performance and reliability.

**Our proven innovation and quality provides:**

**5-25% more energy than other solar panels.** Advanced panel technology efficiently captures and converts more of the sun’s energy into usable power.

**Safe, reliable AC power.** Westinghouse Solar Power Systems feature built-in technology that delivers safe AC power. In addition, our protected wiring, solid framing and integrated grounding systems eliminate the hazards of exposed wiring and the corrosive effects of sun, wind and rain, providing decades of optimal performance.

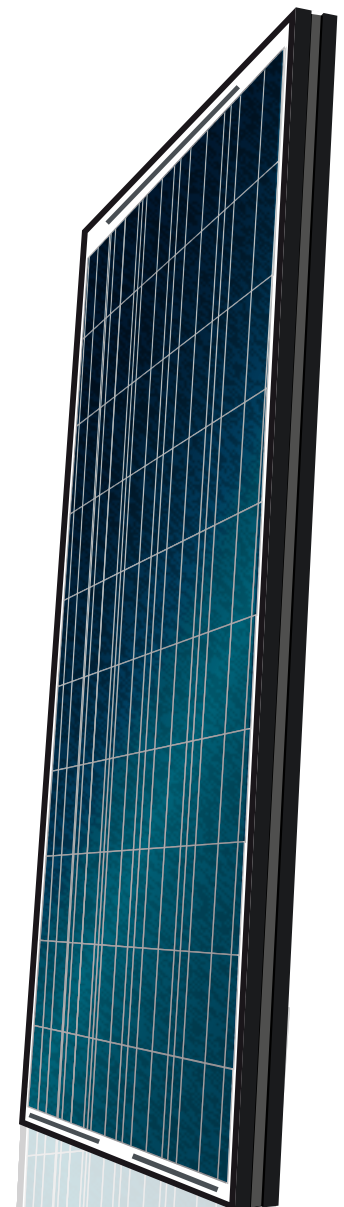
**Sleek, efficient design.** The clean, contemporary look of Westinghouse Solar Panels complements any roof and style of home. The entire system requires 80% fewer parts to install and maintain—ensuring years of worry-free operation.

**Ruggedized construction.** Westinghouse Solar cells are hermetically sealed under toughened, high-transmission glass and secured in our patented framing technology to create a panel that is weather resistant and extremely-reliable.

**Monitor your system anywhere in the world.** Web-based monitoring system constantly analyzes the per-module data of your Westinghouse Solar Power System providing energy production data via a browser or smart-phone.

**Advanced power production technology.** Westinghouse Solar panels incorporate reliable weather resistant electronics and highly efficient micro-inverters built directly into each panel, delivering greater energy production across various outdoor conditions.

**Integrated Mounting Systems.** Westinghouse Solar panels seamlessly integrate with Westinghouse Solar Sloped and Flat Roof Mounting Systems to achieve rapid installations that are built to last.



**Recognized By The Best, As The Best.** Leading consumer and industry groups have honored Westinghouse Solar with their highest awards and accolades. Yet another example of how the Westinghouse name is known worldwide for outstanding quality and reliability.



**You have our word on it.** Every Westinghouse Solar Power System is backed by the proven reliability of the Westinghouse name — for more than a century a guarantee of quality. Panel warranty provides 25 year power output warranty — 10 years @ 90% and 25 years @ 80%.



**The Westinghouse Solar Power Warranty**  
**PANELS 25-YEARS | INVERTERS 15-YEARS**

Mechanical Specifications - Module		
Length x Width 65.3 x 39.3 inches 166 x 99.7 cm	Thickness 2.0 inches 5.08 cm	Weight 51.0 lbs 23.2 kg

	AC Module Technical Specifications	
	WLW-230-1-AC3-B-B WLW-235-1-AC3-B-B	WLW-230-1-AC1-A-B WLW-235-1-AC1-A-B
Nominal output current	920mA	800mA
Nominal voltage/range	208V/183V-229V	240/211V-264V
Extended voltage/range	208V/179V-232V	240V/211V-269V
Maximum AC Power Output	190W	190W
Nominal frequency/range	60.0/59.3-60.5	60.0/59.3-60.5
Extended frequency/range	60.0/59.3-60.5	60.0/59.3-60.5
Power factor	>0.95	>0.95
Maximum units per branch	21	15
Peak inverter efficiency	0.955	0.955
CEC weighted efficiency	0.95	0.95
Nominal MPP tracking	0.996	0.996
Operating temperature range	-40°C to +65°C	-40°C to +65°C
Night time power consumption	30mW	30mW
Cooling	Natural Convection - No Fans	
Enclosure environmental rating	Outdoor - NEMA 6	
Communication	Powerline	
Compliance	UL1741/ieee1547 FCC Part 15 Class B	

Mechanical Specifications - System		
	Westinghouse Solar	Ordinary Solar
Racking hardware	Integrated	External
Grounding wires	Integrated	External
Module-module connections	Integrated (Threaded)	External (Friction Clips)
Space between modules	1/8"	Up to 3"
Roofing penetrations	25% Fewer	Standard
Installation materials		

Electrical Characteristics at Standard Test Conditions			
STC: irradiance of 1000W/m <sup>2</sup> , spectrum AM 1.5, and cell temperature of 25°C			
		230W	235W
Peak DC Power <sup>1</sup>	P <sub>max</sub>	230W	235W
Output Tolerance		±3%	±3%
Cell Technology	60 Cell Poly-Si, 156 x 156mm (6.14 inch)		
White back sheet for high efficiency			

<sup>1</sup>Peak Power at Output Tolerance

Certified wind and snow load tested to 5400Pa

Protected by U.S. patents (7,406,800; 7,832,157 and 7,866,098), and foreign patents (2,005,248,343; 243,626; 274,182 and 751,614). Other patents pending.



**Westinghouse** Solar

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