

475–450 W Commercial M-Series Panel

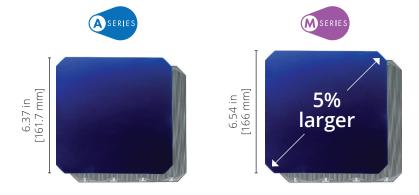
SunPower® Maxeon® Technology

Built specifically for use with the SunPower Helix® system, the only fully integrated solar solution designed, engineered, and warranted by one company.



Highest Power Density Available

The patented, solid-copper foundation Maxeon Gen 6 cell is over 5% larger than prior generations, delivering the highest-efficiency commercial solar panel available.*



SunPower® Maxeon® Solar Cell Technology



Fundamentally **diff**erent. And **b**etter.

- Delivers unmatched reliability²
- Patented solid metal foundation prevents breakage and corrosion

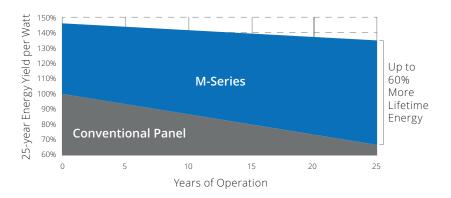
As sustainable as the energy it produces.

- Achieved the #1 ranking on the Silicon Valley Toxics Coalition's Solar Scorecard for 3 years running
- SunPower modules can contribute to your business's LEED certification³



Highest Lifetime Energy and Savings

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.¹





Best Reliability, Best Warranty

With more than 42.6 million and 15 GW modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our panel with the industry's best 25-year Combined Power and Product Warranty.

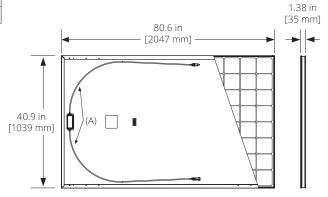
M-Series: M475 | M460 | M450 Maxeon® Commercial Panel

Electrical Data				
	SPR-M475-COM	SPR-M460-COM	SPR-M450-COM	
Nominal Power (Pnom) ⁴	475 W	460 W	450 W	
Power Tolerance	+5/-0%	+5/-0%	+5/-0%	
Pane Efficiency	22.3%	21.6%	20.2%	
Rated Voltage (Vmpp)	43.9 V	43.2 V	42.8 V	
Rated Current (Impp)	10.82 A	10.64 A	10.52 A	
Open-Circuit Voltage (Voc)	52.6 V	52.5 V	52.4 V	
Short-Circuit Current (Isc)	11.57 A	11.54 A	11.51A	
Max. System Voltage	1500 V UL			
Maximum Series Fuse	20 A			
Power Temp Coef.	0.29% / °C			
Voltage Temp Coef.	0.239% / °C			
Current Temp Coef.	0.057% / °C			

Operating co	ndition s and Mechanical Data	
Temperature	-40°C to +85°C (40°F to +185°F)	
Impact Resistance	25 mm (1 in.) diameter hail at 23 m/s (52 mph)	
Appearance	Class A	
Solar Cells	72 Maxeon 6 cells	
Tempered Glass	High-transmission tempered anti reflective	
Junction Box	IP-68, PV4S	
Weight	22.7 kg (50 lb)	
Max. Test Load⁵	Wind: 125 psf, 6000 Pa, 611 kg/m² back Snow: 187 psf, 9000 Pa, 917 kg/m² front	
Max. Design Load	Wind: 75 psf, 3600 Pa, 367 kg/m² back Snow: 125 psf, 6000 Pa, 611 kg/m² front	
Frame	Class 2 silver anodized	

Tests and Certifications			
Standard Tests	UL61730 (Type 2 Fire Rated)		
Quality Management Certs	ISO 9001:2015, ISO 14001:2015		
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, Recycle Scheme, REACH SVHC-163		
Ammonia Test	IEC 62716		
Desert Test	MIL-STD-810G		
Salt Spray Test	IEC 61701 (maximum severity)		
PID Test	1500 V: IEC 62804		
Available Listings	UL		

Packaging Configuration		
Modules Per Pallet	29	
Packaging Box Dimensions	2082 × 1072 × 1224 mm	
Pallet Gross Weight	689 kg (1519 lb)	
Pallets Per Container	30	
Net Weight Per Container	20,670 kg (45,569 lb)	







- A. Cable Length:
 - 1350 mm ±10 mm (53.1 in. ±0.4 in.)
- B. Long Side: 32 mm (1.3 in.) Short Side: 32 mm (1.3 in.)

- * Based on datasheet review of websites of top 20 manufacturers per Wood Mackenzie US PV Leaderboard
- 1 Maxeon 475 W, 22.3% efficient, compared to a Conventional Panel on same-sized arrays (310 W, 18% efficient, approx. 2.0 m²), 7.9% more energy per watt (based on PVSyst pan files for avg. US climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application."PVSC 2018).

 2 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3". PVTech Power Magazine, 2015. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013.

- 3 M-Series panels additionally contribute to LEED Materials and Resources credit categories.
 4 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). All DC voltage is fully contained within the module.
- $5\ Please\ read\ the\ safety\ and\ installation\ instructions\ for\ more\ information\ regarding\ load\ ratings\ and\ mounting$ configurations.

See www.sunpower.com/company for more reference information. Specifications included in this datasheet are subject to change without notice.

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Please read the safety and installation instructions for details.



539976 Rev A / LTR US

SUNNY HIGHPOWER PEAK3 125-US / 150-US





Cost effective

- Modular architecture reduces BOS and maximizes system uptime
- Compact design and high power density maximize transportation and logistical efficiency

Maximum flexibility

- Scalable 1,500 VDC building block with best-in-class performance
- Flexible architecture creates scalability while maximizing land usage

Simple install, commissioning

- Ergonomic handling and simple connections enable quick installation
- Centralized commissioning and control with SMA Data Manager

Highly innovative

- SMA Smart Connected reduces O&M costs and simplifies fieldservice
- Powered by award winning ennexOS cross sector energy management platform

SUNNY HIGHPOWER PEAK3 125-US / 150-US

A superior modular solution for large-scale power plants

The PEAK3 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized solution for large-scale PV integrators. With fast, simple installation and commissioning, the Sunny Highpower PEAK3 is accelerating the path to energization. SMA has also brought its field-proven Smart Connected technology to the PEAK3, which simplifies O&M and contributes to lower lifetime service costs. The PEAK3 power plant solution is powered by the ennexOS cross sector energy management platform, 2018 winner of the Intersolar smarter E AWARD.