



SunPower® P19-410-COM

SunPower® Performance Panel for Commercial Installations

SunPower Performance Panels wrap front contact cells with 30+ years of SunPower materials and manufacturing expertise. The weakest points of Conventional Panel design are eliminated to deliver superior power, reliability, value and savings.¹



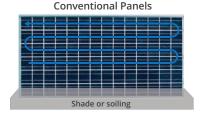
High Power

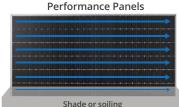
Enhanced active area and mono PERC cells optimize power density, while lowering system costs.



High Performance

Up to 32% more energy in the same space over 25 years.² Unique parallel circuitry maximizes energy production during morning and evening row-to-row shading, or when panels become soiled.

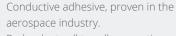






High Reliability

SunPower Performance Panels are the most deployed shingled solar panel in the world.³ Innovative cell shingling mitigates the leading reliability challenges associated with conventional front contact panels by designing out fragile ribbons and solder bonds on the cells. SunPower stands behind its panels with its 25 year product and performance warranty.



technology. Outstanding reliability.

• Redundant cell to cell connections.

• Robust and flexible cell connection

Proven Performance

Innovative Design

Engineered for

Performance



- Named as a Top Performer in all DNV/GL reliability tests.
- Reduced panel temperature due to unique electrical bussing.

25 Year Combined Warranty

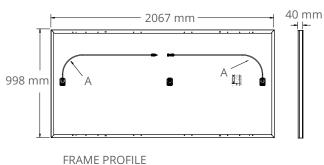


P19-405-COM: SunPower® Performance Panel for Commercial Installations

Electrical Data									
Model	SPR-P19-410-COM	SPR-P19-405-COM	SPR-P19-400-COM	SPR-P19-395-COM	SPR-P19-390-COM	SPR-P19-385-COM			
Nominal Power (Pnom) ⁴	410 W	405 W	400 W	395 W	390 W	385 W			
Power Tolerance	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%			
Efficiency	19.9%	19.6%	19.4%	19.2%	18.9%	18.7%			
Rated Voltage (Vmpp)	45.7 V	45.3 V	44.8 V	44.4 V	44.1 V	43.8 V			
Rated Current (Impp)	8.98 A	8.94 A	8.93 A	8.90 A	8.85 A	8.80 A			
Open-Circuit Voltage (Voc)	54.5 V	54.0 V	53.6 V	53.4 V	52.9 V	52.5 V			
Short-Circuit Current (Isc)	9.55 A	9.53 A	9.50 A	9.47 A	9.45 A	9.44 A			
Maximum System Voltage			1000	V IEC					
Maximum Series Fuse	num Series Fuse 18 A								
Power Temp. Coef.	r Temp. Coef0.36% / ° C								
Voltage Temp. Coef.	ge Temp. Coef0.29% / ° C								
Current Temp. Coef.	nt Temp. Coef. 0.05% / ° C								

Tests And Certifications					
Standard Tests ⁵	IEC 61215, IEC 61730				
Quality Certs	ISO 9001:2008, ISO 14001:2004				
EHS Compliance	OHSAS 18001:2007, Recycling Scheme				
Ammonia Test	IEC 62716				
Desert Test	MIL-STD-810G				
Salt Spray Test	IEC 61701 (maximum severity)				
PID Test	Potential-Induced Degradation free: 1000 V				
Available Listings	TUV, MCS				

Operating Condition And Mechanical Data					
Temperature	–40° C to +85° C				
Impact Resistance	25 mm diameter hail at 23 m/s				
Solar Cells	Monocrystalline PERC				
Tempered Glass	High-transmission tempered anti-reflective				
Junction Box	IP-67, Multi-Contact (MC4), 3 bypass diodes				
Weight	23.1 kg				
Max. Load	Wind: 2400 Pa, 245 kg/m² front & back				
Max. Luau	Snow: 5400 Pa, 550 kg/m² front				
Frame	Class 2 silver anodized				
Blocking Diode	None				





(A) Cable Length: 1000 mm +/-15 mm (B) Long Side: 32 mm Short Side: 24 mm

Read safety and installation instructions before using this product.

1	Independent	Shada	Study	hy CEV I	ahoraton/

² SunPower 400 W compared to a Conventional Panel on same sized arrays (310 W, 16% efficient, approx. 1.94 $\rm m^2$), 1% higher yield (Germany or California with 0.75 GCR, PVSim), 0.6%/yr degradation (Performance Series Review Leidos). 2018

5 Class C fire rating per IEC 61730.

Designed in USA, assembled in China.

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

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³ Osborne. "SunPower supplying P-Series modules to a 125MW NextEra project." PV-Tech.org. March 2017.

⁴ Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM

^{1.5,} and cell temperature 25° C.