SUNPOWER®

PERFORMANCE



PERFORMANCE 3 | 420 W

Commercial Solar Panel

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



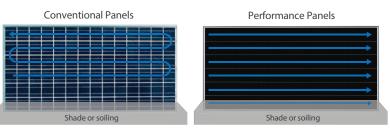
High Power

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



High Performance

Up to 8% more energy in the same space over 25 years compared to Conventional mono PERC Panels.² Unique parallel circuitry maximizes energy production during morning and evening row-to-row shading, or when panels become soiled.



25-yr

Confidence

Engineered for Performance



- Robust and flexible cell connection technology. Outstanding reliability.
- Conductive adhesive, proven in the aerospace industry.
- Redundant cell to cell connections.
- Reduced panel temperature due to unique electrical bussing.



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 industry-leading Complete Confidence Warranty. SunPower's Performance Line is warranted to produce more than 97.5% power in the first year, then declining by 0.5% per year, ending at 85.5% power after 25 years.





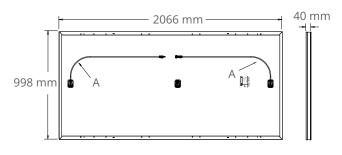
sunpower.com.au

PERFORMANCE 3 | P3-420-COM-1500 Commercial Solar Panel - Preliminary - Unreleased

| Electrical Data | | |
|-----------------------------------|---------------------|--|
| Model | SPR-P3-420-COM-1500 | |
| Nominal Power (Pnom) ⁴ | 420 W | |
| Power Tolerance | +5/-0% | |
| Efficiency | 20.4% | |
| Rated Voltage (Vmpp) | 45.3 V | |
| Rated Current (Impp) | 9.28 A | |
| Open-Circuit Voltage (Voc) | 54.4 V | |
| Short-Circuit Current (Isc) | 9.92 A | |
| Maximum System Voltage | 1500 V IEC | |
| Maximum Series Fuse | 18 A | |
| Power Temp. Coef. | −0.34% / °C | |
| Voltage Temp. Coef. | −0.28% / °C | |
| Current Temp. Coef. | 0.06% / °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 | |
| Available Listings | TUV | |

| 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, Stäubli MC4-Evo2, 3 bypass diodes | |
| Weight | 22 kg | |
| Design Load | Wind: 1600 Pa, 163 kg/m² front & back | |
| | Snow: 3600 Pa, 367 kg/m² front | |
| Frame | Class 2 silver anodized | |



FRAME PROFILE



(A) Cable Length: 1200 mm +/-15 mm(B) Long Side: 32 mmShort Side: 24 mm

Read safety and installation instructions before using this product.



PERFORMANCE

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1 Independent Shade Study by CFV Laboratory. 2016.

2 SunPower 425 W, 20.6% efficient, compared to a Conventional Panel on same-sized arrays (370 W mono PERC, 19% efficient, approx. 1.94 m²), 0.25%/yr slower degradation rate (Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018).

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.

5 Class C fire rating per IEC 61730.

6 Fraunhofer CSP LID Sensitivity according to IEC 61215 (MQT 23.1 LeTID detection), <1% power loss.

Designed in USA, assembled in China.

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

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