

# SUNPOWER

## MAXEON 3 SOLAR PANEL

405–420 W | Up to 22.2% Efficient



Ideal for residential applications



Black backsheet, black frame

### More Lifetime Energy

Designed to maximise energy generation through leading efficiency, enhanced performance in high temperatures, and higher energy conversion in low-light conditions like mornings, evenings and cloudy days.

### Uncompromising Durability

Engineered to power through all types of weather conditions with crack-resistant cells and reinforced connections that protect against fatigue and corrosion, to an electrical architecture that mitigates the impact of shade and prevents hot-spot formation.



### Superior Sustainability

Clean ingredients, responsible manufacturing, and lasting energy production for 40 years make SunPower Maxeon panels the most sustainable choice in solar.



### The Industry's Longest Warranty

SunPower Maxeon panels are covered by a 40-year warranty<sup>1</sup> backed by extensive third-party testing and field data from more than 33 million panels deployed worldwide.

|                                 |          |
|---------------------------------|----------|
| Product and power coverage      | 40 Years |
| Year 1 minimum warranted output | 98.0%    |
| Maximum annual degradation      | 0.25%    |



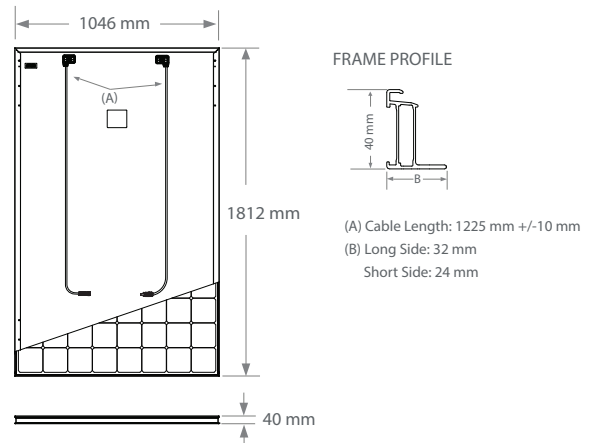
Learn more about the SPR-MAX3-XXX-BLK-R  
[sunpower.maxeon.com](https://sunpower.maxeon.com)

# MAXEON 3 POWER: 405–420 W | EFFICIENCY: Up to 22.2%

| Electrical Data                                 |                    |                    |                    |                    |
|---|--------------------|--------------------|--------------------|--------------------|
|   | SPR-MAX3-420-BLK-R | SPR-MAX3-415-BLK-R | SPR-MAX3-410-BLK-R | SPR-MAX3-405-BLK-R |
| Nominal Power (P <sub>nom</sub> ) <sup>2</sup>  | 420 W              | 415 W              | 410 W              | 405 W              |
| Power Tolerance                                 | +5/0%              | +5/0%              | +5/0%              | +5/0%              |
| Panel Efficiency                                | 22.2%              | 21.9%              | 21.6%              | 21.4%              |
| Rated Voltage (V <sub>mpp</sub> )               | 35.5 V             | 35.3 V             | 35.1 V             | 34.9 V             |
| Rated Current (I <sub>mpp</sub> )               | 11.82 A            | 11.75 A            | 11.68 A            | 11.61 A            |
| Open-Circuit Voltage (V <sub>oc</sub> ) (+/-3)  | 40.7 V             | 40.7 V             | 40.7 V             | 40.7 V             |
| Short-Circuit Current (I <sub>sc</sub> ) (+/-3) | 12.65 A            | 12.64 A            | 12.63 A            | 12.62 A            |
| Max. System Voltage                             | 1000 V IEC         |                    |                    |                    |
| Maximum Series Fuse                             | 25 A               |                    |                    |                    |
| Power Temp Coef.                                | -0.27% / °C        |                    |                    |                    |
| Voltage Temp Coef.                              | -0.236% / °C       |                    |                    |                    |
| Current Temp Coef.                              | 0.058% / °C        |                    |                    |                    |

| Operating Condition And Mechanical Data |   |
|---|---|
| Temperature                             | -40°C to +85°C  |
| Impact Resistance                       | 25 mm diameter hail at 23 m/s   |
| Solar Cells                             | 112 Monocrystalline Maxison Gen 3   |
| Front Glass                             | High-transmission tempered glass with anti-reflective coating                                   |
| Junction Box                            | IP-68, Stäubli (MC4), 2 bypass diodes   |
| Weight                                  | 21.2 kg   |
| Max. Load <sup>6</sup>                  | Wind: 2400 Pa, 244 kg/m <sup>2</sup> front & back<br>Snow: 5400 Pa, 550 kg/m <sup>2</sup> front |
| Frame                                   | Class 1 black anodized (highest AAMA rating)  |

| Certifications and Compliance             |  |
|---|--|
| Standard Tests <sup>3</sup>               | IEC 61215, IEC 61730   |
| Quality Management Certs                  | ISO 9001:2015, ISO 14001:2015  |
| Available Listings                        | TUV  |
| IFLI Declare Label                        | First solar panel labeled for ingredient transparency and LBC-compliance. <sup>4</sup>   |
| Cradle to Cradle Certified™ Silver        | First solar panel line certified for material health, water stewardship, material reutilization, renewable energy & carbon management, and social fairness. <sup>5</sup> |
| Green Building Certification Contribution | Panels can contribute additional points toward LEED and BREEAM certifications.   |
| EHS Compliance                            | RoHS, ISO 45001:2018, Recycle Scheme, REACH SVHC-163   |



Please read the safety and installation instructions. Visit [www.sunpower.maxeon.com/int/PVInstallGuideIEC](http://www.sunpower.maxeon.com/int/PVInstallGuideIEC). Paper version can be requested through [techsupport.ROW@maxeon.com](mailto:techsupport.ROW@maxeon.com).



<sup>1</sup> 40-year warranty is not available in all countries or all installations and requires registration, otherwise our 25-year warranty applies. Service availability varies by country and installation provider.

<sup>2</sup> Standard Test Conditions (1000 W/m<sup>2</sup> irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.

<sup>3</sup> Class C fire rating per IEC 61730.

<sup>4</sup> Maxison DC panels first received the International Living Future Institute Declare Label in 2016.

<sup>5</sup> Maxison DC panels are Cradle to Cradle Certified™ Silver - [www.c2ccertified.org/certified-products-and-materials/maxeon-solar-panels](http://www.c2ccertified.org/certified-products-and-materials/maxeon-solar-panels). Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

<sup>6</sup> As per IEC 61215-2016 tested and certified.

Made in Philippines (Cells)

Assembled in Malaysia (Module)

Specifications included in this datasheet are subject to change without notice.

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View warranty, patent and trademark information at [maxeon.com/legal](http://maxeon.com/legal).

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