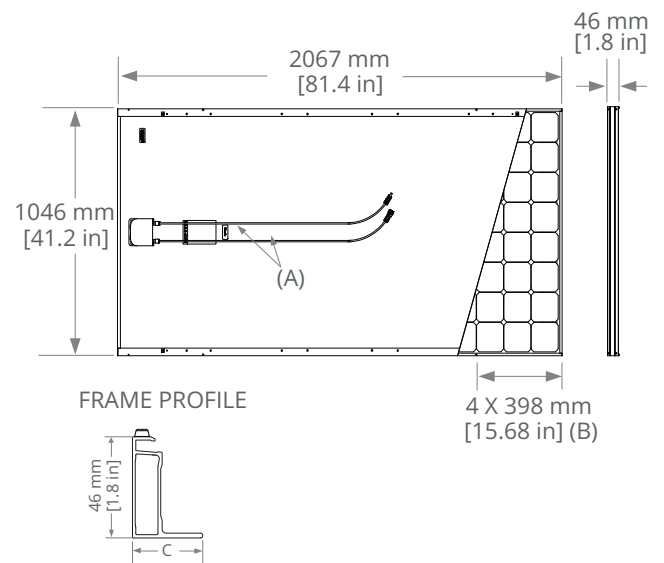


X-Series: X21-470-COM SunPower® Commercial DC Panel

Electrical Data		
	SPR-X21-470-COM	SPR-X21-460-COM
Nominal Power (Pnom) ⁷	470 W	460 W
Power Tolerance	+5/0%	+5/0%
Panel Efficiency	21.7%	21.3%
Rated Voltage (Vmpp)	77.6 V	77.3 V
Rated Current (Impp)	6.06 A	5.95 A
Open-Circuit Voltage (Voc)	91.5 V	90.5 V
Short-Circuit Current (Isc)	6.45 A	6.39 A
Max. System Voltage	1000 V UL & 1000 V IEC	
Maximum Series Fuse	15 A	
Power Temp Coef.	-0.29% / °C	
Voltage Temp Coef.	-223.2 mV / °C	
Current Temp Coef.	2.9 mA / °C	

Operating Condition And Mechanical Data	
Temperature	-40° F to +185° F (-40° C to +85° C)
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class A
Solar Cells	128 Monocrystalline Maxeon Gen III
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65, 1230 mm cables / MC4 Compatible
Weight	56 lbs (25.4 kg)
Max. Load	Wind: 50 psf, 2400 Pa, 244 kg/m ² front & back Snow: 112 psf, 5400 Pa, 550 kg/m ² front
Frame	Class 2 silver anodized; stacking pins

Tests And Certifications	
Standard Tests ⁸	UL1703 (Type 2 Fire Rating), IEC 61215, IEC 61730
Quality Management Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, Recycle Scheme, REACH SVHC-163
Sustainability	Cradle to Cradle Certified™ Silver. "Declare." listed.
Ammonia Test	IEC 62716
Desert Test	10.1109/PVSC.2013.6744437
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000 V: IEC 62804, PVEL 600 hr duration
Available Listings	UL, TUV, MCS, FSEC, CEC



- (A) Cable Length: 1230 mm +/- 10 mm
- (B) Stacking Pins
- (C) Long Side: 32 mm [1.3 in]
Short Side: 22 mm [0.9 in]

Please read the safety and installation guide.

1 SunPower 360 W compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on PVSyst pan files), 0.75%/yr slower degradation (Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013).
 2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2017.
 3 #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.
 4 SunPower is rated #1 on Silicon Valley Toxics Coalition's Solar Scorecard.
 5 Cradle to Cradle Certified is a multi-attribute certification program that assesses products and materials for safety to human and environmental health, design for future use cycles, and sustainable manufacturing.
 6 X-Series and E-Series panels additionally contribute to LEED Materials and Resources credit categories.
 7 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
 8 Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.

See www.sunpower.com/company for more reference information.
 For more details, see extended datasheet: www.sunpower.com/solar-resources.
 Specifications included in this datasheet are subject to change without notice.

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